



****Extraordinary Assumptions:** There are many different data sources in this report and not all of them match. This document is informational purposes only, the goal is to provide an overall picture of the current situation.

Daily Situation Summary

Friday, October 22, 2021 - [Day 590](#)

As of 2:00 PM

COVID-19 by the Numbers

10/22/2021	Riverside	Imperial	Kern	Los Angeles*	Orange	San Bernardino	San Diego	San Luis Obispo	Santa Barbara	Ventura	California	United States	Global
Total Cases	354,254	32,700	122,626	1,414,701	301,955	347,172	365,698	28,716	43,489	96,606	4,599,952	14,372,897	242,348,657
Total Cases Per Capita	14,353	17,062	13,225	13,792	9,353	15,657	10,850	10,298	9,529	11,329	11,463	4,318	3,109
% of Total Cases/Population	14.35%	17.06%	13.22%	13.79%	9.35%	15.66%	10.85%	10.30%	9.53%	11.33%	11.46%	4.32%	3.11%
Recovered**	361,794	28,773	136,599	Not Reported	291,100	343,259	Not Reported	29,065	43,147	94,942	2,527,022	35,901,392	220,664,828
% of total recovered/population	14.66%	15.01%	14.73%	Not Reported	9.02%	15.48%	Not Reported	10.42%	9.45%	11.13%	6.30%	10.79%	2.83%
Total Deaths	5,030	766	322	26,506	5,534	5,663	4,178	332	523	1,166	34,131	256,147	4,927,723
Deaths Per Capita	203.80	399.69	34.73	258.40	171.41	255.39	123.96	119.06	114.60	136.73	85.05	76.96	63.22
% of Total Deaths/Population	0.20%	0.40%	0.03%	0.26%	0.17%	0.26%	0.12%	0.12%	0.11%	0.14%	0.09%	0.08%	0.06%
% of State's Cases	7.70%	0.71%	2.67%	30.75%	6.56%	7.55%	7.95%	0.62%	0.95%	2.10%	32.00%	5.93%	
Currently in Hospitals	243	25	227	621	190	271	259	13	35	37	3,659		
Total Hospital Beds	3,455	236	1,220	19,201	5,969	3,695	6,496	449	614	1,167	66,659		
Currently in ICU	56	5	76	208	43	80	79	2	13	9	957		
ICU Beds Available	88	7	13	607	136	120	203	18	26	35	1,904		
Case Fatality Rate	1.42%	2.34%	0.26%	1.87%	1.83%	1.63%	1.14%	1.16%	1.20%	1.21%	0.74%	1.78%	2.03%
Population*	2,468,145	191,649	927,251	10,257,557	3,228,519	2,217,398	3,370,418	278,862	456,373	852,747	40,129,160	332,823,400	7,794,657,000
% of Population	6.15%	0.48%	2.31%	25.56%	8.05%	5.53%	8.40%	0.69%	1.14%	2.13%	12.06%	4.27%	

Sources: CDPH, WHO, CDC, Local County Data, LA Times

The date for which case statistics and hospital data were reported. Hospital COVID data are self-reported through a portal managed by the California Hospital Association and pulled at 2pm. COVID case statistics are reported by local health departments to CalREDIE and are pulled at 2pm. Hospital data and case statistics are integrated by the California Department of Technology and made available through the Open Data Portal the following morning. CA Open Data Portal is at least 24 Hours behind although a backlog of new case reports at the State level has ostensibly been cleared, some County dashboards still contain notes that indicate data are missing. *California Demographics from State Database Blueprint Data Chart 12-15-20 & census.gov. (**Many County sites do not report recovery rates or are only updating once a week)

News
More detail on page 2

US Data
More detail on page 7

State Data
More detail on page 25

County of Riverside
More detail on page 28

Weather
More detail on page 31

Air Quality
More detail on page 31

News – The collection of news articles are related to COVID-19. The inclusion or order of articles is not intended to reflect their importance, nor is it intended to endorse the political viewpoints or affiliations included in news coverage.

Scientists are closely tracking a new variant spreading in the UK that could be 10% more infectious than Delta

- Scientists are closely tracking a new coronavirus variant called AY.4.2, a subtype of Delta.
- Francois Balloux, the director at the University College London Genetics Institute, tweeted on Saturday that data about AY.4.2 suggested it could be 10% more transmissible than the most common Delta variant in the UK.
- Dr. Scott Gottlieb, a former commissioner of the Food and Drug Administration, said the new variant wasn't an "immediate cause for concern," but he called for "urgent research" to work out whether it was more infectious or able to avoid the body's immune response.
- Balloux said in a statement on Tuesday that the variant was "rare" outside of the UK, the US only has three cases so far.

<https://www.yahoo.com/news/scientists-closely-tracking-variant-spreading-122006526.html>

Genomic epidemiology of novel coronavirus - Global subsampling

https://nextstrain.org/ncov/gisaid/global?d=tree.entropy.frequencies&p=full&r=division&tl=clade_membership

Which countries are vaccinating children and why?

- In May, the European Medicines Agency (EMA) approved the Pfizer vaccine for 12 to 15-year-olds. Since then, different EU countries have moved at different speeds.
- Denmark (12 to 15-year-olds) and Spain (12 to 19-year-olds) have both now vaccinated most of their child population with at least a single dose.
- France too has been moving quickly with 66% of those aged 12 to 17 now single jabbed, and 52% fully vaccinated. By October the country's health pass - or pass sanitaire - will be extended to under-18s, meaning all teenagers will need to show proof of vaccination or a negative Covid test to access places like cinemas, museums, restaurants and indoor shopping centers.
- In June Germany's scientific advisers recommended the vaccine should only be offered to children aged 12 to 15 with underlying health conditions. But in August, after the Delta variant started spreading more widely, the rollout was extended to all those over 12 years old.
- In Sweden children aged 12 to 15 are only eligible for a vaccine if they have lung disease, severe asthma or another high-risk medical condition. In Norway, not part of the EU, the vaccine rollout was recently extended to children aged 12 to 15, but only a first dose will be offered, with a decision on a second dose to be made later.

<https://www.bbc.com/news/health-58516207>

CDC director: U.S. may update definition of full vaccination for COVID-19

- Biden administration officials urged eligible Americans on Friday to get booster shots of a COVID-19 vaccine and the Centers for Disease Control and Prevention head said it may update its definition of what constitutes full vaccination.
- Currently people in the United States are considered fully vaccinated if they have had two doses of the Pfizer/BioNTech or Moderna Inc vaccine, or one dose of the vaccine made by Johnson & Johnson.
- "We have not yet changed the definition of 'fully vaccinated.' We will continue to look at this. We may need to update our definition of 'fully vaccinated' in the future," CDC director Rochelle Walensky told reporters.
- "If you're eligible for a booster, go ahead and get your booster and we will continue to follow," she said.

<https://news.yahoo.com/cdc-director-u-may-definition-155147410.html>

States and Pharmacies Face New Challenges in U.S. Booster Rollout

- Federal regulators have [cleared booster shots](#) of all three coronavirus vaccines in use in the United States, state health authorities and pharmacies have begun rolling out plans to get even more shots in arms.
- Dr. Rochelle P. Walensky, the director of the Centers for Disease Control and Prevention, recommended Moderna and Johnson & Johnson boosters on Thursday for tens of millions of Americans, a move that came nearly a month after many Pfizer-BioNTech recipients were cleared for boosters of that company's vaccine.
- The C.D.C. also gave a green light to a ["mix-and-match" strategy](#) so people who are eligible for boosters can decide to get a dose of a different type than the one they first received.
- More than 120 million Americans will become eligible for a booster in the coming months, Jeffrey D. Zients, the White House coronavirus response coordinator, said at a news conference on Friday, adding that boosters are available at more than 80,000 locations across the country, including at least 40,000 local pharmacies. But judging by their experiences so far with Pfizer boosters, health officials said they were not too concerned about an overwhelming rush or demand outpacing supply.
<https://www.nytimes.com/live/2021/10/22/world/covid-vaccine-boosters>

Colin Powell was fully vaccinated, but he still died from COVID complications. How rare is that?

- At 84, health experts say, Powell fell into this high-risk group.
- "As we get older, our immune system is weaker and it is less likely to respond appropriately to vaccinations, and we're more likely to get ill when we do get exposed to infection," said Dr. Kristin Englund, an infectious disease expert at the Cleveland Clinic. "That's why very early on we targeted vaccines for our elderly population."
- Because older people were some of the first Americans to get vaccinated, she said, it's possible Powell's immunity may have waned over time, although it's not clear exactly when he got his first shot. Global supply chain problems are leading to delivery delays and higher prices for consumer goods.
- The CDC reports that as of Oct. 12, 7,178 deaths among vaccinated people; 85% of the deaths are in people 65 and older.
<https://www.yahoo.com/news/colin-powell-fully-vaccinated-still-165515272.html>

Miami private school to require students getting COVID vaccine to stay home for 30 days after each dose

- Centner Academy in Miami, Florida said any student who gets vaccinated must quarantine for 30 days.
- "Because of the potential impact on other students and our school community, vaccinated students will need to stay at home for 30 days post-vaccination for each dose and booster they receive and may return to school after 30 days as long as the student is healthy and symptom-free," a letter sent to parents of students at the Centner Academy said, as local news outlet WSVN reported.
- Now, the letter sent out to parents says their concerns over what they call "experimental vaccines" haven't changed. They also mentioned their concerns over health issues. They did say they respect everyone's choice but also need to watch out for their entire school community.
- The letter also urged parents to "hold off" on getting their children vaccinated until the summer "when there will be time for the potential transmission or shedding onto others to decrease."
<https://wsvn.com/news/local/miami-private-school-to-require-students-getting-covid-vaccine-to-stay-home-for-30-days-after-each-dose/>

The Workers Won't Be Coming Back, Covid or Not. Here Are Theories on Where They Went.

- Americans are quitting their jobs at a record pace while millions who left the workforce during the pandemic have yet to return. Many economists say Covid is the culprit, but there may be more going on than meets the eye.
- To attribute slow hiring mainly to the pandemic presumes the labor shortage is temporary. But travel trends examined by Barron's suggest the acute lack of workers owes to more than Covid infection rates, a revelation that raises questions about why workers are staying home and whether they will come back to the traditional labor market.
- Millions making more through weekly unemployment insurance than in minimum-wage jobs would have to return to work when the extra \$300 a week expired, just as parents struggling with child care challenges would send their children back to school and themselves re-enter the workforce, that isn't what happened, and it wasn't even close.
- September was the slowest pace of hiring all year, and it came alongside a surprise decline in labor-force participation and another rise in wages that further undermines the inflation-is-transitory argument.
- "It remains a mystery," says Torsten Sløk, Apollo Global Management's chief economist. "If we still have five million people who used to have a job and now don't, why is it that wages continue to go up very, very quickly? Why is there a labor shortage?"
- So what, then, explains the labor shortage mystery? We don't know with certainty. But we have a few theories:
 - First the pandemic prompted a record number of new businesses. The peak was in July 2020, when close to 600,000 new business applications were filed, up 100% from the year prior.
 - Veronica Clark, economist at Citi, says that despite the labor market hole of about five million, household income is back to prepandemic levels. That suggests some two-income households have become one-income households.
 - Fiscal programs are meanwhile constraining labor supply, says Gad Levanon, economist at the Conference Board. Notes that other programs, such as the child tax credit of up to \$3,600 a year per child, give some parents room to stay home
 - Levanon says vaccine mandates may be backfiring in some cases, spurring some people to quit and fewer to job hunt in order to avoid the shots. "Certainly there are people out of the labor force because of it," he said. "Anecdotally it's much higher than I expected and not a trivial amount. It's everywhere." That begs an obvious question: If healthcare workers, teachers and others are willing to quit instead of get vaccinated, can we really expect them to return soon?

<https://www.barrons.com/articles/the-workers-wont-be-coming-back-covid-or-not-here-are-theories-on-where-they-went-51634290204?siteid=yhoof2>

Allison Williams leaves ESPN over vaccine mandate: 'I cannot put a paycheck over principle'

- Longtime college football and basketball reporter Allison Williams announced over the weekend she is leaving ESPN because of the company's COVID-19 vaccine mandate.
- Williams made the announcement in a video posted to Instagram on Friday, saying that her "request for accommodation" to forgo COVID-19 vaccination was denied by ESPN and parent Disney necessitating a decision on her part:
- Disney [announced in July](#) that all salaried and nonunion hourly employees in the U.S. working at any of its sites had to get vaccinated against COVID-19 within 60 days.
- ESPN told MarketWatch via email that the company would not "comment on an individual," but it is "going through a thorough review of accommodation requests on a case-by-case basis, and are granting accommodations consistent with our legal obligations. Our focus is on a safe work environment for everyone."

<https://www.marketwatch.com/story/allison-williams-leaves-espn-over-vaccine-mandate-i-cannot-put-a-paycheck-over-principle-11634576835?siteid=yhoof2>

They didn't pay rent and stole the fridge. Pandemic spawns nightmare tenants

- Across the country, more than 20 million Americans lost their jobs as the pandemic took hold. Many fell behind on rent. Eviction moratoriums at the local, state and federal level clearly helped millions of people keep a roof over their heads as they struggled financially. But some other renters took advantage of the protections.
- Meanwhile, pressure was building from housing advocates and landlord groups for Congress to do something to prevent a wave of evictions. And last December, lawmakers passed an emergency rental assistance program. In all, it would be \$47 billion to prevent evictions and pay back rent. And that would help both renters and landlords.
- Eventually, rental assistance programs started taking applications. Landlords were told that the renters needed to supply some documents. So we reached out to the tenants and said, 'Hey, could you guys please do that? They tried emailing, calling, approaching them in person, but, "they would just not talk."
- Finally, in July, the renters left unexpectedly in the middle of the night. They must have had a pretty big truck because when they moved out, the couple says, they stole some rather large objects. Walking through the apartment the morning after they left. "When I reached the kitchen, I noticed, why does this look so open?" Lotia says. "Like, why is it looking so empty and bright? And then I realized, oh, the fridge is missing! Then, oh, my god, the other appliances are missing!"
- There was also considerable damage to the apartment including cigarette burns on the vinyl floors. The tenants hadn't paid rent in 16 months, which added up to \$32,000 in lost rent. NPR reached out to the tenants; they did not respond to requests for comment.
- "We spoke to 17 different agents, two supervisors, it was very frustrating to not get any kind of answer," Bajaj says.
- Eventually they were told they couldn't qualify for any help, because for landlords to get paid, renters need to cooperate with the program.
- Across the country, other landlords are discovering the same thing. The same rule applies at all 500 state and local programs distributing that money from Congress.
- There are a couple of different reasons for that. Fraud prevention is one. Also, policymakers don't want landlords to be able to just evict lots of people and then collect the back rent. Preventing evictions is a primary goal.
- Noel Andrés Poyo is a deputy U.S. Treasury secretary who oversees emergency rental assistance efforts nationally. He says it's difficult to allow landlords to get help without the cooperation of renters and stay within the rules of the law passed by Congress.
- But he says, that may change. "Right now, Congress is engaged in a process of looking at the original legislation and whether some updates can or should be made," Poyo says.

<https://www.npr.org/2021/10/22/1046154251/they-refused-to-pay-rent-and-stole-the-fridge-landlords-deal-with-pandemic-squat>

In-N-Out Burger: 'We Refuse To Become The Vaccination Police'

- As cities and counties around California enact rules requiring business patrons to show proof of a COVID-19 vaccine or a recent negative test result, California's home-grown fast-food chain, In-N-Out, has taken a stance: "We refuse to become the vaccination police for any government," company executive Arnie Wensinger said in a statement emailed to Patch.
- "It is unreasonable, invasive, and unsafe to force our restaurant Associates to segregate Customers into those who may be served and those who may not, whether based on the documentation they carry, or any other reason," said Wensinger, In-N-Out's chief legal and business officer.

https://patch.com/california/lakeelsinore-wildomar/s/hvix8/innout-burger-we-refuse-to-become-the-vaccination-police?utm_source=alert-breakingnews&utm_medium=email&utm_campaign=alert

America isn't running out of everything just because of a supply-chain crisis. America is running out of everything because Americans are buying so much stuff.

- Disruptions in global supply chains have generated the phrase "everything shortage."
- But US imports are at record levels at some ports, and Americans are breaking shopping records, too.
- To understand the situation, consider the country's [inventory to sales ratio](#). This metric, tracked by the US Census Bureau, compares how much stuff sellers have on hand to how much stuff consumers are buying. The ratio is at a 10-year low, which indicates that we're low on stuff.
- But the Port of Los Angeles reported a 30% uptick in incoming cargo in the first nine months of this year. (Important note, most of nonfood goods sold in the US come from abroad.) The Port of Charleston, South Carolina, has been breaking all-time records since March. Prologis, a major industrial real-estate player, is "effectively sold out" of warehouse space.
- In the first nine months of 2021, retail sales were up 14.5% over the same period in 2020 - a year in which retail sales jumped 8% over 2019. The NRF expected to end the year with sales up 10.5% to 13.5%. Lots of imports and even more spending have driven the inventory to sales ratio down because businesses imported a lot of stuff, and then Americans bought it.

<https://www.yahoo.com/news/america-isnt-running-everything-just-205900297.html>

Walkout 2021: Teachers, Students Walkout Of School In Protest Of Vaccine Mandates

- Thousands of parents, students and teachers walked out of school and onto the California State Capitol lawn in Sacramento, all in protest of the state vaccine mandate.
- A crowd of about two thousand from all across the state converged on the capitol Monday afternoon.

<https://sacramento.cbslocal.com/2021/10/18/school-walkout-capitol-protest-vax-mandate/>

RELATED

Shasta County schools see student absences spike during statewide walkout over vaccine mandates

- While all Enterprise Elementary School District schools were in session on Monday, 45% of the student body was absent, District Superintendent Heather Armelino said.
- Attendance was higher at Cascade Union School District schools, said District Superintendent Jason Provence. Still, the district reported that 305 of the district's 1,100 students — almost 28% — were absent.
- Armelino, of the Enterprise district, said that 6% of faculty didn't come to her district's schools, while about the same percentage of staff were absent.

<https://www.redding.com/story/news/2021/10/18/california-school-walkout-shasta-county-schools-high-student-absences-covid-vaccine-mandate-protest/8506623002/>



U. S. Data

https://covid.cdc.gov/covid-data-tracker/#cases_casesper100klast7days

United States COVID-19 Cases and Deaths by State

Maps, charts, and data provided by CDC, updates daily by 8 pm ET[†]

TOTAL CASES
45,235,796

+78,101 New Cases

7 DAY CASE RATE PER 100,000
150.9

TOTAL DEATHS
731,931

+1,414 New Deaths

CDC | Data as of: October 22, 2021 12:40 PM ET. Posted: October 22, 2021 2:20 PM ET

<https://covid.cdc.gov/covid-data-tracker/#vaccinations>

COVID-19 Vaccinations in the United States

Total Vaccine Doses	At Least One Dose	Fully Vaccinated	Booster Dose
	Vaccinated People	Count	Percent of US Population
Delivered 501,613,665			
Administered 411,963,025			
Learn more about the distribution of vaccines.			
190.2M People fully vaccinated		219,900,525	66.2%
	Population ≥ 12 Years of Age	219,666,287	77.5%
	Population ≥ 18 Years of Age	204,788,212	79.3%
12.0M People received a booster dose**	Population ≥ 65 Years of Age	52,572,844	96.1%

***For surveillance purposes, COVID Data Tracker counts people as being "fully vaccinated" if they received two doses on different days (regardless of time interval) of the two-dose mRNA series or received one dose of a single-dose vaccine.**

****The count of people who received a booster dose includes anyone who is fully vaccinated and has received another dose of COVID-19 vaccine since August 13, 2021. This includes people who received booster doses and people who received additional doses.**

COVID-19 Community Profile Report 10-21-2021

<https://beta.healthdata.gov/Health/COVID-19-Community-Profile-Report/gqxm-d9w9>

NUMBER OF NEW CASES AND DEATHS IN THE LAST 7 DAYS

Total Cumulative Cases: 45,149,234

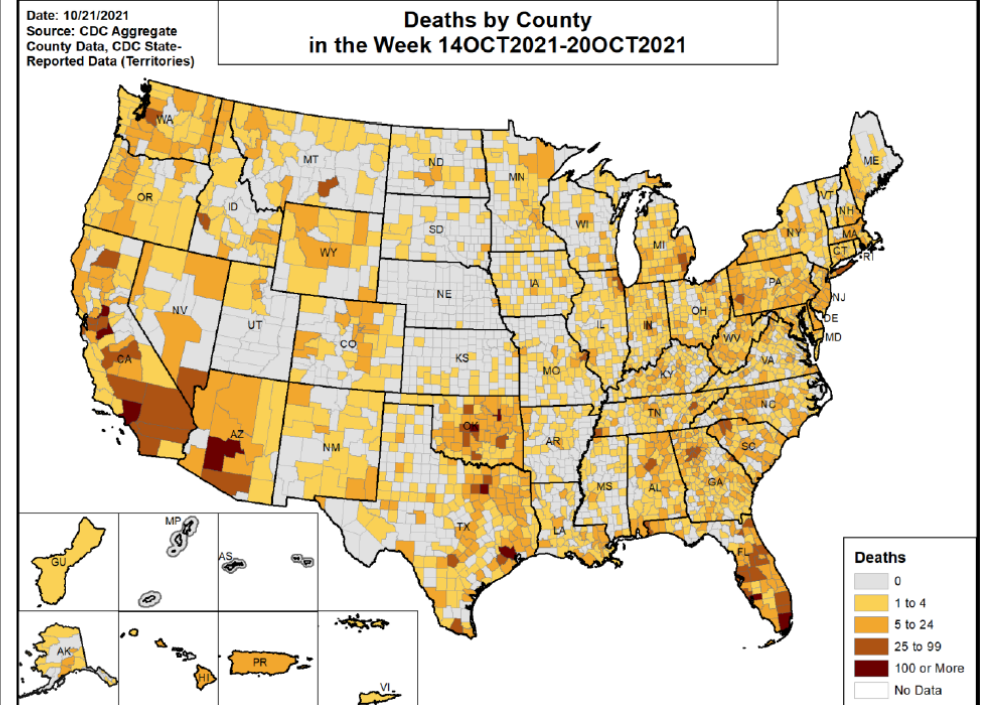
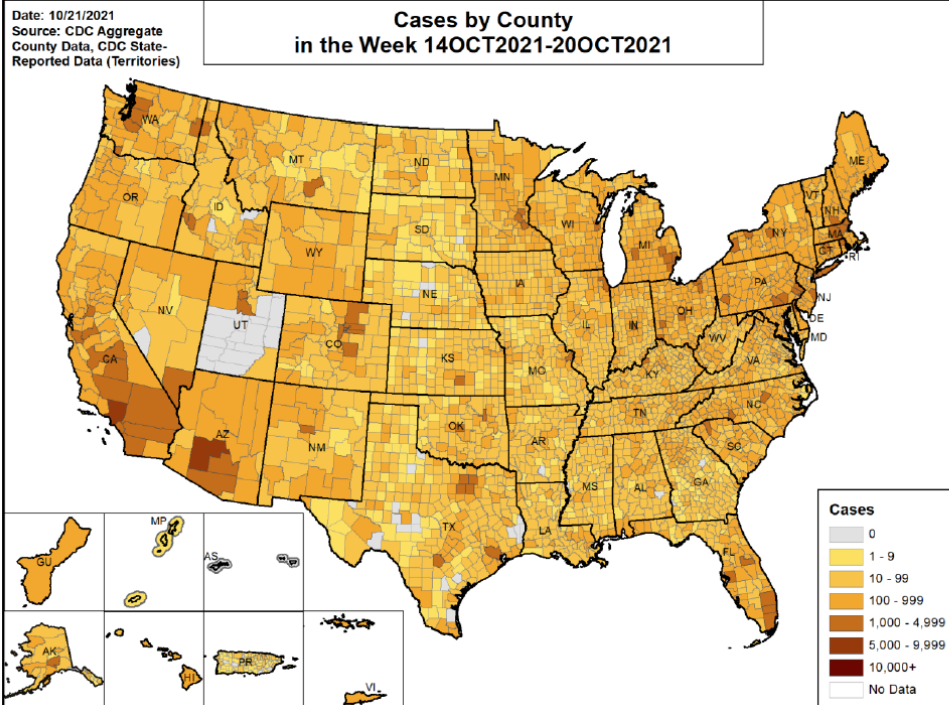
New Cases in Last 7 Days: 511,555

Percent Change from Previous 7 Days: -15.1%

Total Cumulative Deaths: 730,368

New Deaths in Last 7 Days: 8,768

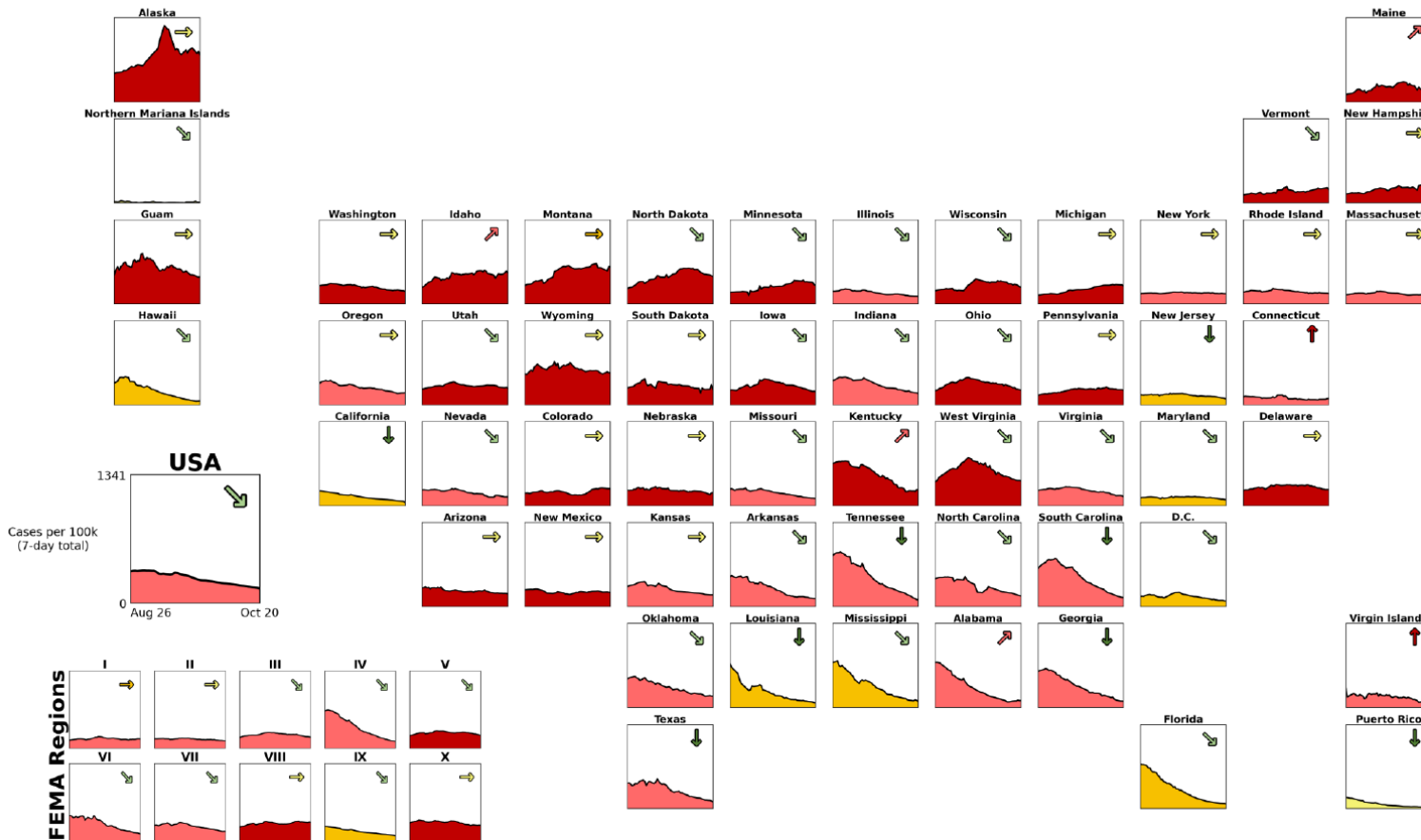
Percent Change from Previous 7 Days: -4.3%



INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



TRENDS IN CASE INCIDENCE DURING THE LAST 8 WEEKS



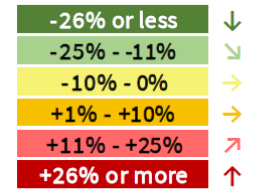
Case incidence categories

(based on cases per 100,000 population in the last 7 days)



Weekly % change categories

(arrow based on % change in weekly cases)



Source: CDC state-reported data. See Data Sources/Methods slides for additional details.

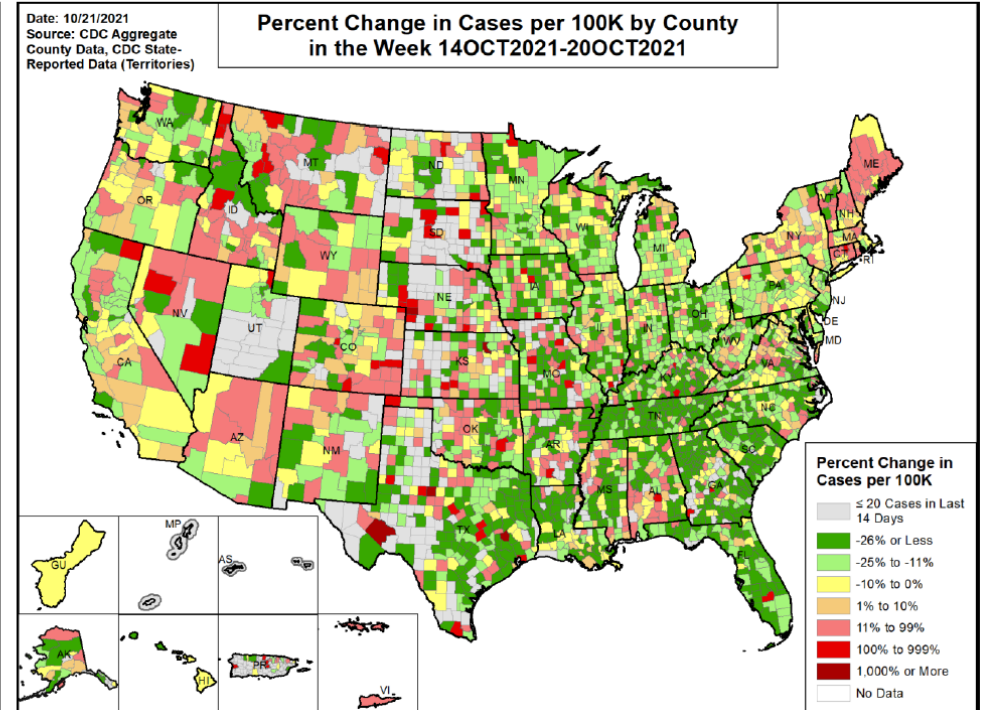
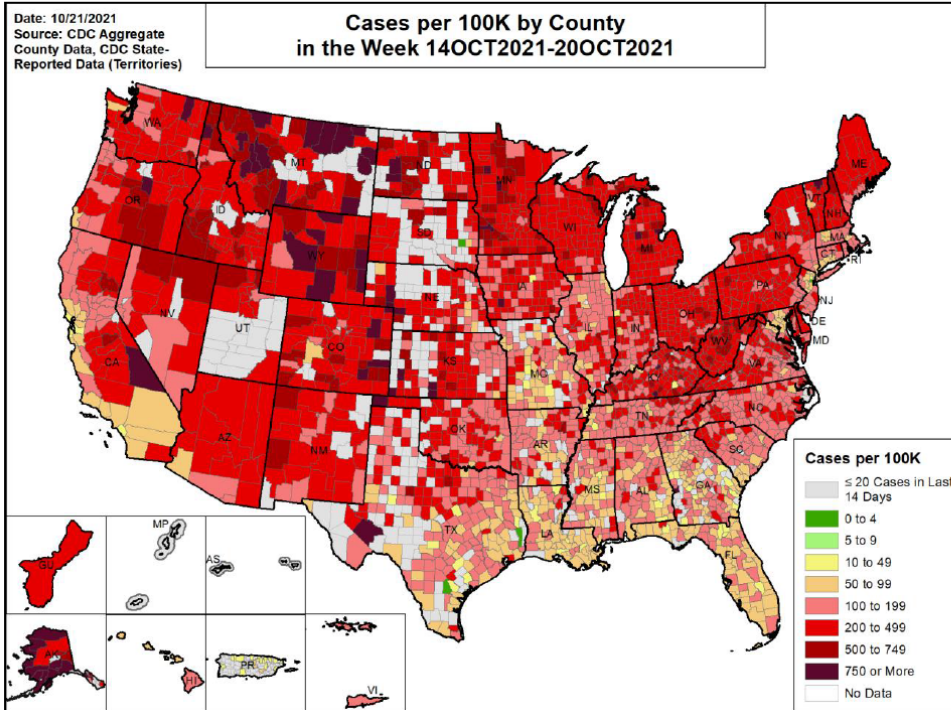
INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



CASE INCIDENCE IN LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Incidence Rate in the Last 7 Days: 154.1 per 100,000

Percent Change from Previous 7 Days: -15.1%



INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



TRENDS IN HOSPITAL ADMISSIONS PER 100 BEDS DURING THE LAST 8 WEEKS



Confirmed admission rate categories
(based on confirmed COVID-19 admissions per 100 beds over the last 7 days)



Weekly % change categories
(arrow based on % change in weekly confirmed COVID-19 admissions)



Figure depicts confirmed hospital admissions per 100 inpatient beds.

Source: Unified Hospital Dataset. See Data Sources/Methods slides for additional details.

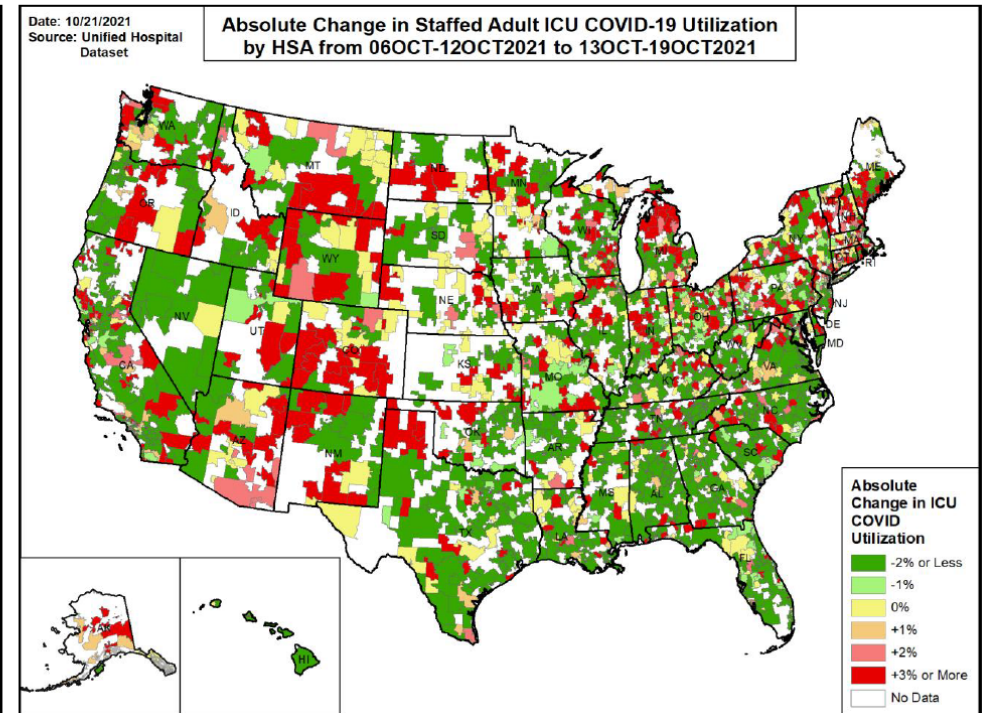
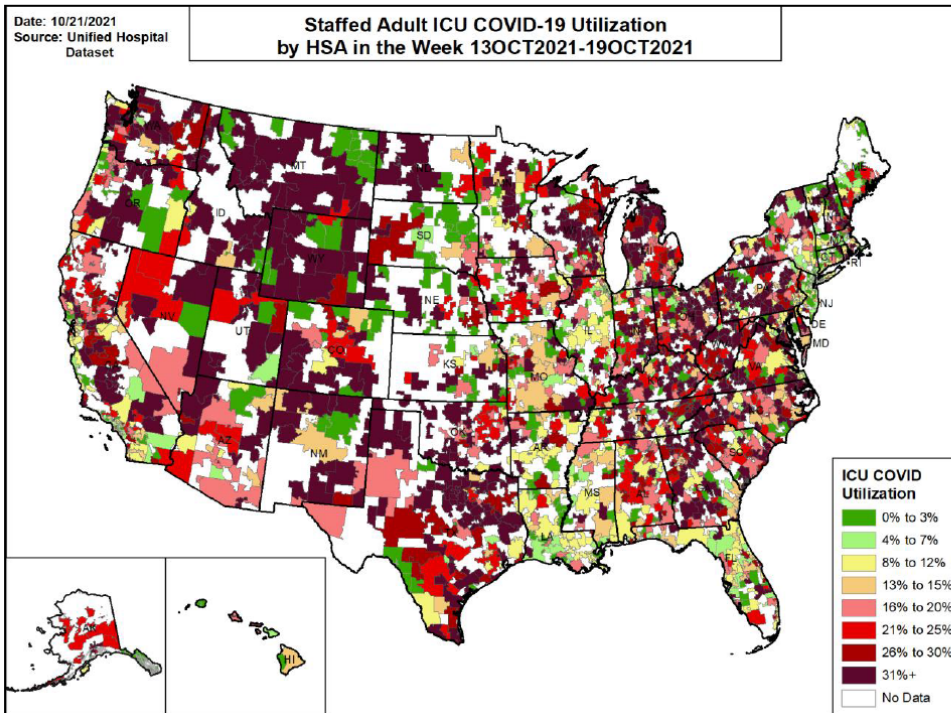
INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



STAFFED ADULT ICU COVID-19 UTILIZATION IN THE LAST 7 DAYS AND COMPARISON TO THE PREVIOUS 7 DAYS

Average Daily Adult ICU COVID-19 Patients over Last 7 Days:
14,894

Percent Change from Previous 7 Days: -10.5%

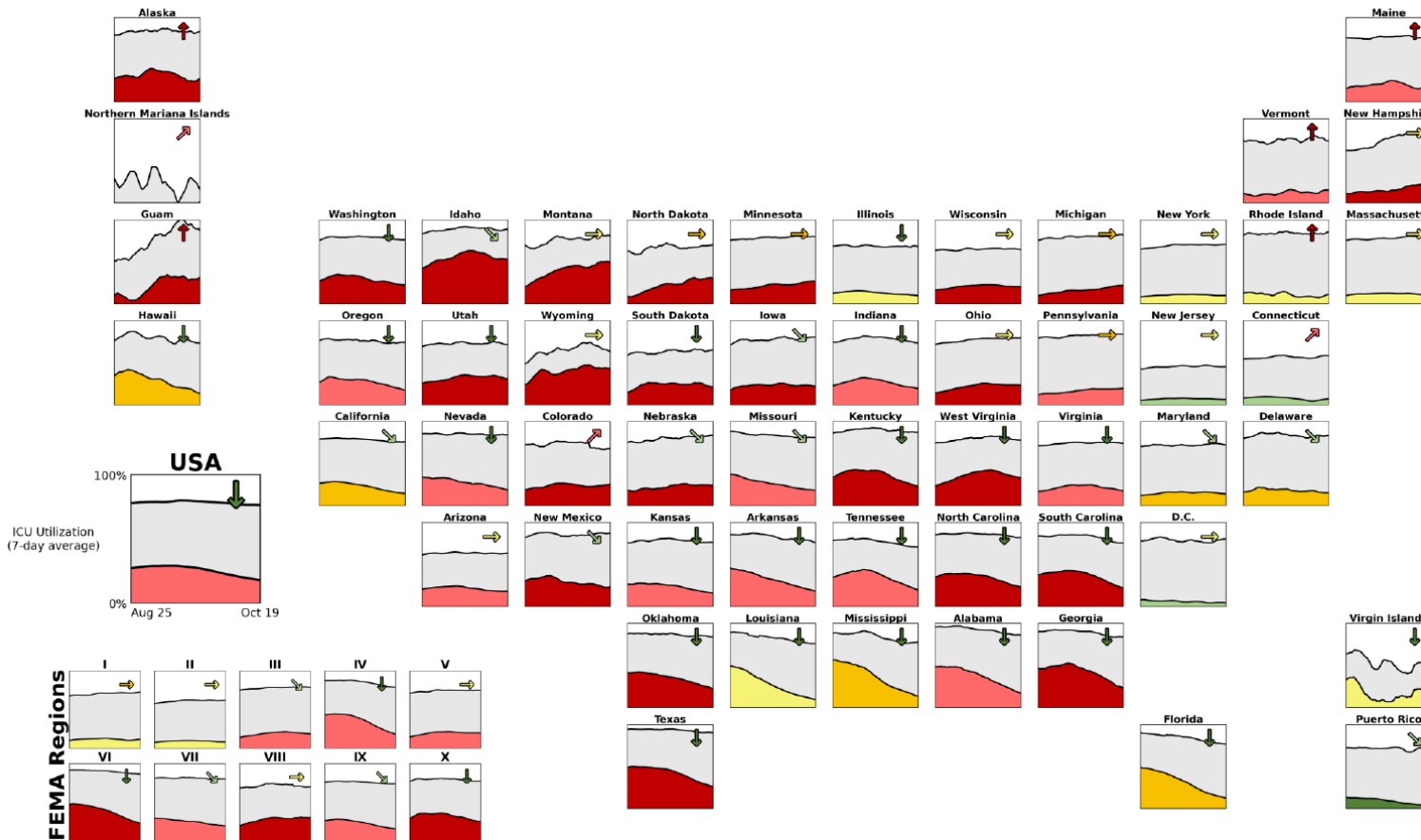


Source: Unified Hospital Dataset, excluding psychiatric, rehabilitation, and religious non-medical hospitals. Staffed adult ICU COVID-19 utilization indicates average percentage of staffed adult ICU beds occupied by confirmed COVID-19 patients within the given time period. HSA indicates Hospital Service Area. Hospitals are assigned to HSA based on zip code where known. In some areas, reports are aggregates of multiple facilities that cross HSA boundaries; in these cases, values are assigned based on the zip code for the aggregate. See Data Sources/Methods slides for additional details.

INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



TRENDS IN STAFFED ADULT ICU BED CAPACITY DURING THE LAST 8 WEEKS



Color based on ICU confirmed COVID-19 utilization only. Light gray based on overall ICU utilization. Most recent dates may be less reliable due to delayed reporting.

Source: Unified Hospital Dataset. See Data Sources/Methods slides for additional details.

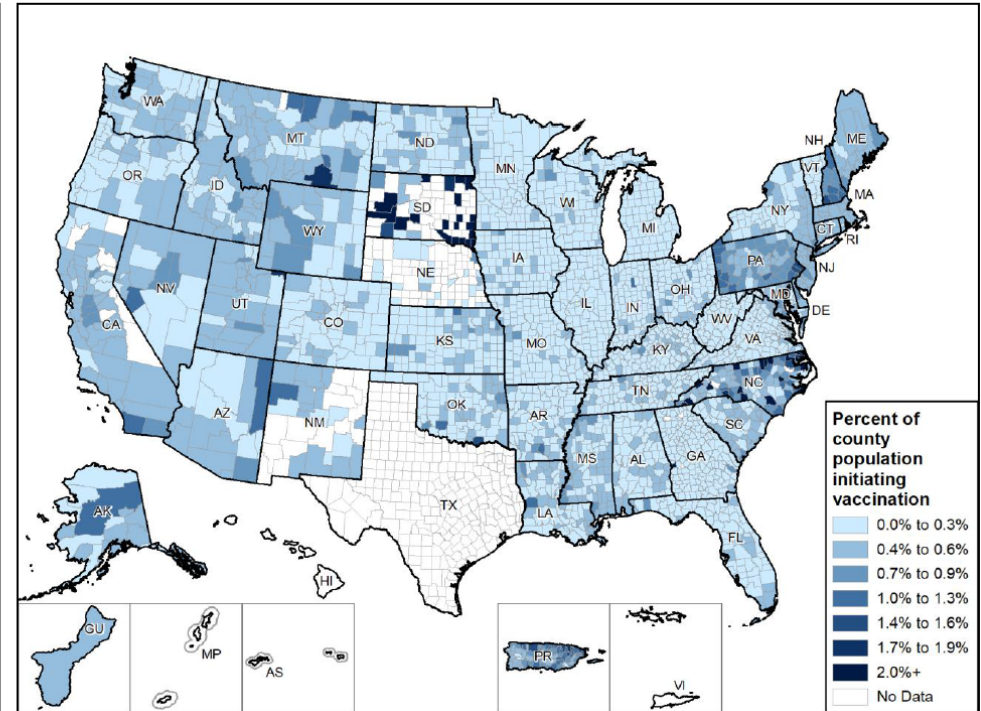
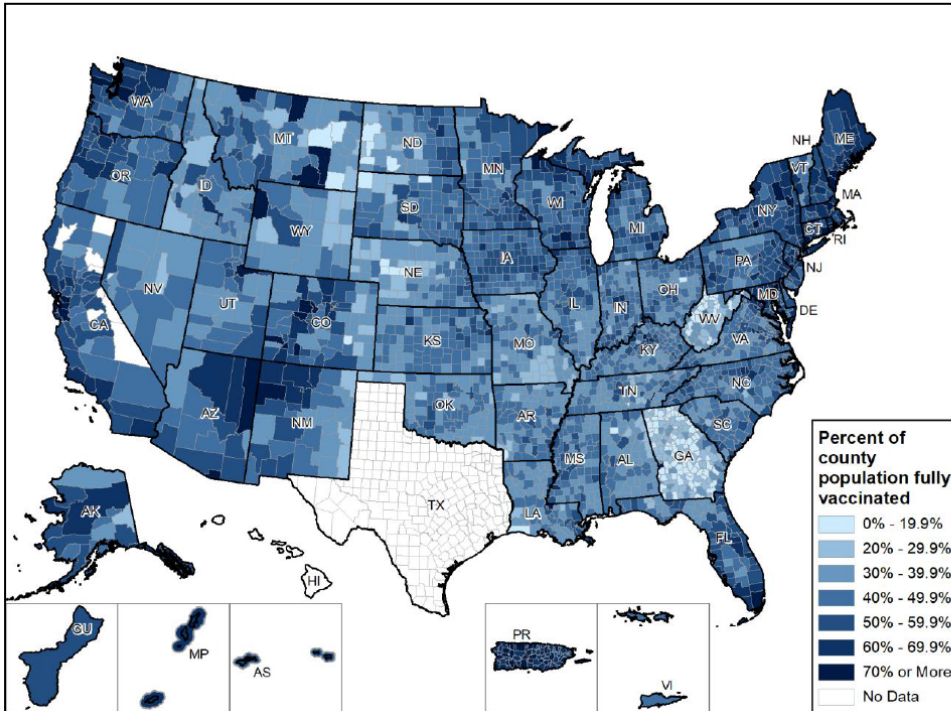
INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



VACCINATION RATES BY COUNTY

Percent of Population Fully Vaccinated: 57.2%
Percent of Population with at Least 1 Dose: 66.2%

Percent of Population Initiating Vaccination in the Last Week: 0.5%



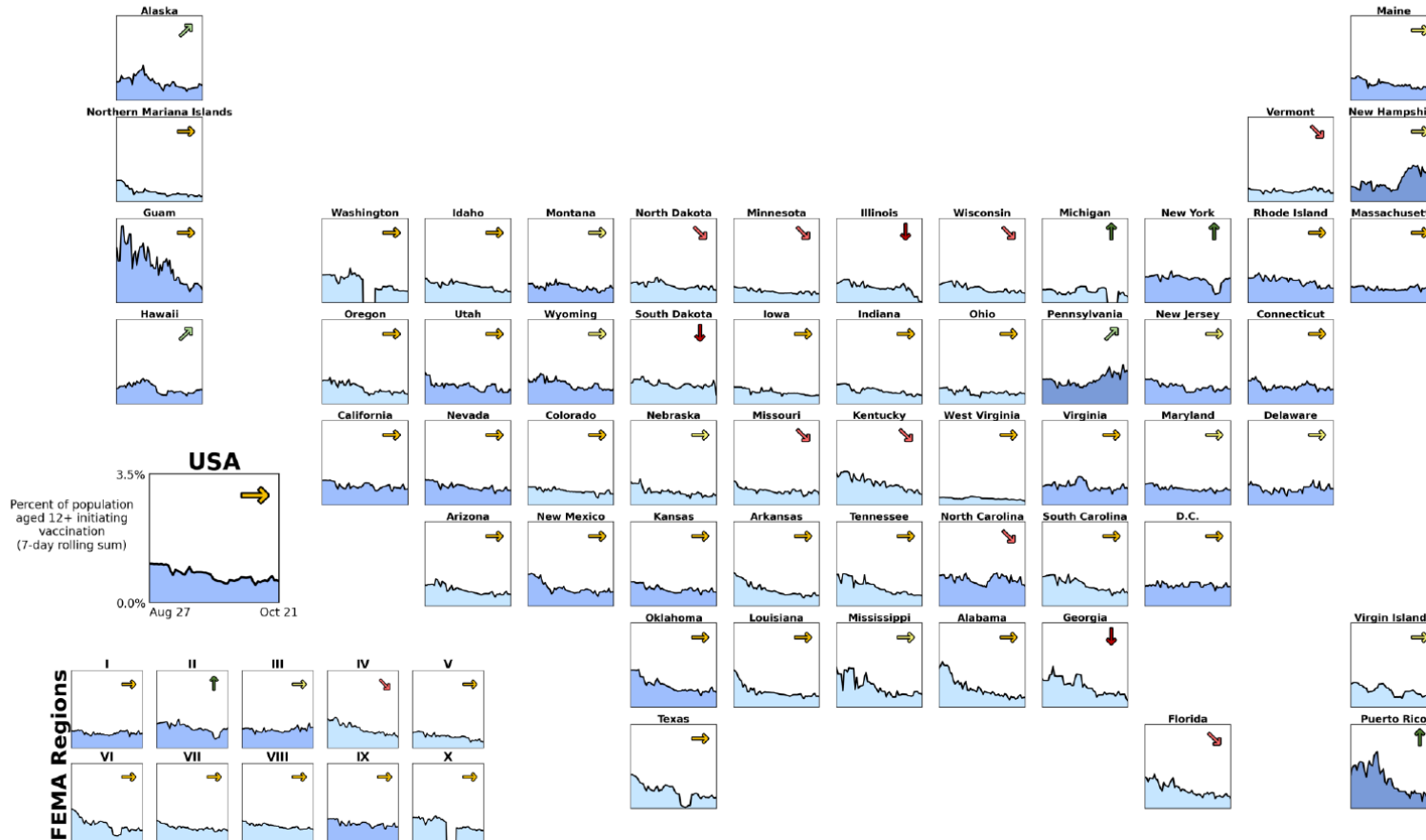
Source: Unified COVID-19 Vaccine Dataset. Fully vaccinated indicates those who received the second dose of Pfizer-BioNTech or Moderna vaccines and those who received one dose of J&J/Janssen COVID-19 vaccine. Initiating vaccination indicates those who have received the first dose of the Pfizer-BioNTech or Moderna vaccines and those who have received a dose of the J&J/Janssen vaccine in the last week. Values reflect total by report date, not administered date. In instances where the number of people fully vaccinated is greater than those with at least one dose for a specific county, the county will have "no data" on the map of population initiating vaccination; see COVID Data Tracker for further information. The following states have $\leq 80\%$ completeness reporting vaccinations by county, which may result in underestimates of vaccination data for counties and CBSAs: VT (74%), WV (60%), GA (58%), PW (0%), FM (0%), TX (0%), AS (0%), HI (0%), MH (0%), MP (0%)

Idaho provides vaccine data only for vaccine recipients who are 18 years and older, in line with state laws. COVID-19 vaccination administration data are unavailable for the Idaho population aged less than 18 years.

INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



TRENDS IN PERCENT OF POPULATION AGED 12+ INITIATING VACCINATION DURING THE LAST 8 WEEKS



Percent of population 12+ initiating vaccination

(based on percent of population in last 7 days)

- +0.5% or less
- +0.6% - +1.0%
- +1.1% - +1.5%
- +1.6% - +2.0%
- +2.1% - +2.5%
- +2.6% - +3.0%
- +3.1% or more

Weekly absolute change categories

(arrow based on absolute change in percent of population)

- 0.26% or less ↓
- 0.25% - -0.11% ↘
- 0.10% - +0.01% →
- +0.02% - +0.10% →
- +0.11% - +0.25% ↗
- +0.26% or more ↑

Source: Unified COVID-19 Vaccine Dataset. See Data Sources/Methods slides for additional details.

Idaho provides vaccine data only for vaccine recipients who are 18 years and older, in line with state laws. COVID-19 vaccination administration data are unavailable for the Idaho population aged less than 18 years.

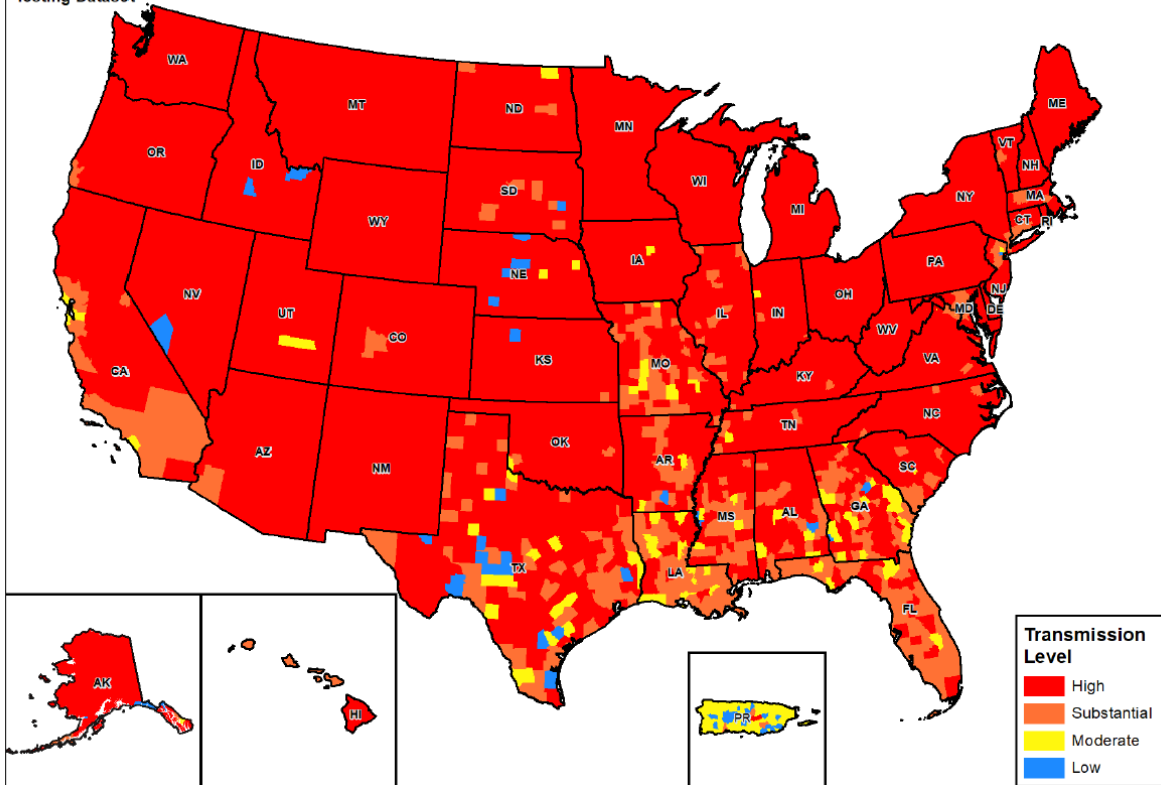
INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



COMMUNITY TRANSMISSION LEVEL

Date: 10/21/2021
 Source: CDC Aggregate
 County Data, Unified
 Testing Dataset

Community Transmission Level by County 20OCT2021



Source: CDC Aggregate County Dataset (cases), Unified Testing Dataset (tests)

Notes: Cases data from October 14-20, test positivity data from October 12-18. Combined Transmission Level is the higher threshold among cases and testing thresholds. See Data Sources/Methods slides for additional details.

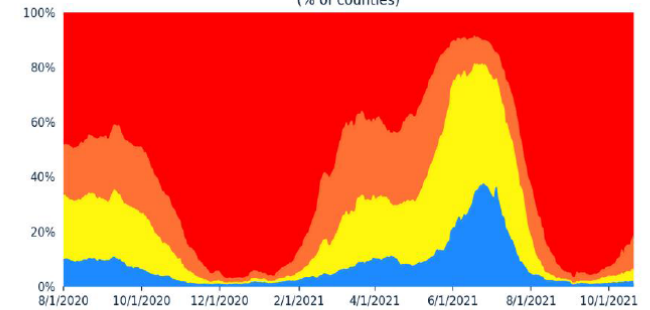
Counties by Community Transmission Indicator

Cases per 100k	0 to 9	10 to 49	50 to 99	100 +
# of counties (change)	70 (↑2)	162 (↑54)	428 (↑161)	2560 (↓217)
% of counties (change)	2.2% (↑0.1%)	5.0% (↑1.7%)	13.3% (↑5.0%)	79.5% (↓6.7%)
Test Positivity	0.0% to 4.9%	5.0% to 7.9%	8.0% to 9.9%	10.0% +
# of counties (change)	828 (↑166)	653 (↑60)	408 (↑18)	1331 (↓244)
% of counties (change)	25.7% (↑5.2%)	20.3% (↑1.9%)	12.7% (↑0.6%)	41.3% (↓7.6%)

Counties by Combined Transmission Level

Category	Low Transmission Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red
# of counties (change)	47 (↑6)	151 (↑55)	385 (↑144)	2637 (↓205)
% of counties (change)	1.5% (↑0.2%)	4.7% (↑1.7%)	12.0% (↑4.5%)	81.9% (↓6.4%)
% of population (change)	0.3% (↑0.2%)	3.3% (↑1.9%)	29.6% (↑12.0%)	66.7% (↓14.0%)

Combined Transmission Levels Over Time
 (% of counties)



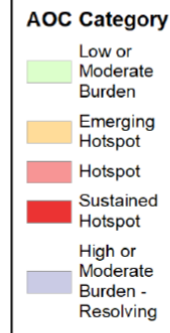
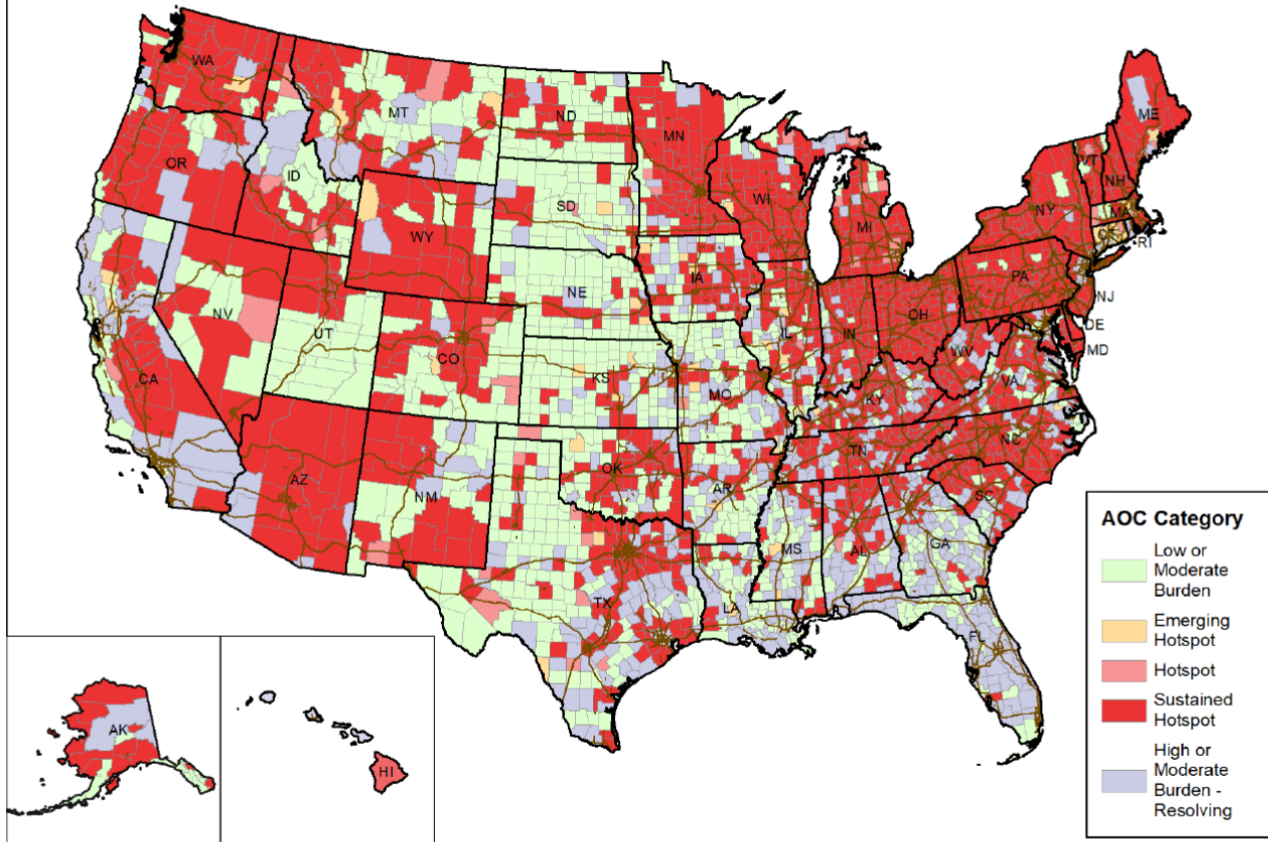
INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



AREA OF CONCERN CONTINUUM

Date: 10/21/2021

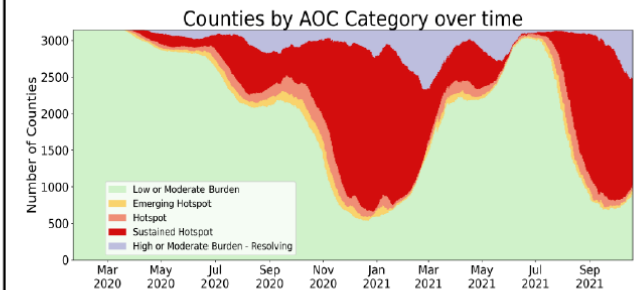
Area of Concern Continuum by County 20OCT2021



The Areas of Concern Continuum (AOCC) is used to describe communities as they progress through stages of the epidemic. There are 7 possible AOC classifications based on current and recent history of case and testing data for the location:

- (1) **Low Burden** – communities with minimal activity
- (2) **Moderate Burden** – communities with moderate disease activity
- (3) **Emerging Hotspot** – communities with a high likelihood to become hotspots in the next 1-7 days
- (4) **Hotspot** – communities that have reached a threshold of disease activity considered as being of high burden
- (5) **Sustained Hotspot** – communities that have had a high sustained case burden and may be higher risk for experiencing healthcare resource limitations
- (6) **High Burden – Resolving** – communities that were recently identified as hotspots and are now improving
- (7) **Moderate Burden – Resolving** – communities that have a moderate level of burden, but are demonstrating improvement

See Data Sources/Methods slides for more information.



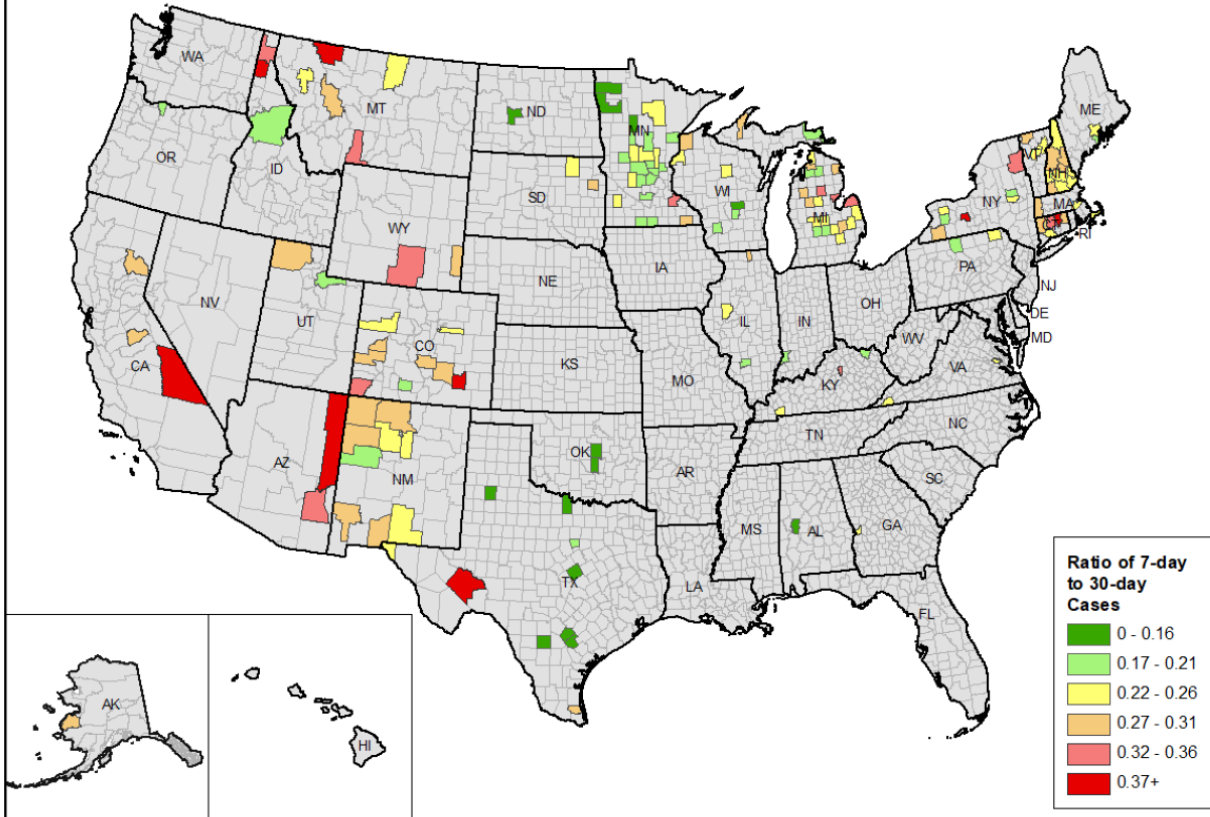
INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



AREA OF CONCERN CONTINUUM - RAPID RISER COUNTIES

Date: 10/21/2021
 Source: CDC Aggregate
 County Data

Counties with Rapid Rise in Cases in the Last 14 Days



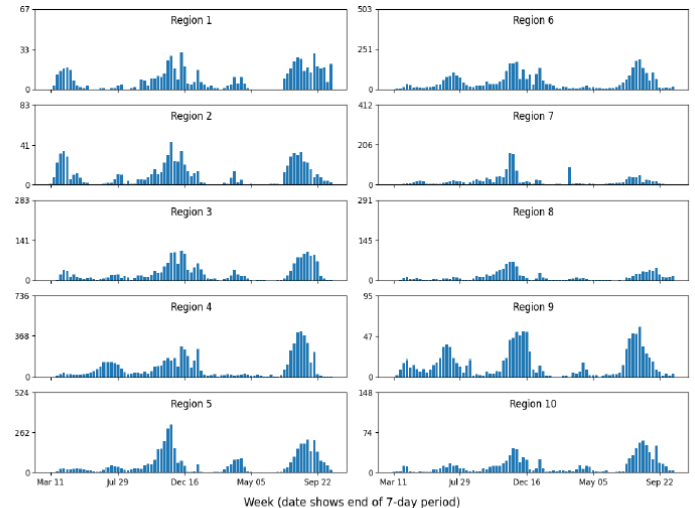
This map shows counties that have seen a rapid rise in cases within the last 14 days by meeting the following **Rapid Riser County** criteria:

- >100 new cases in last 7 days
- >0% change in 7-day incidence
- >60% change in 3-day incidence
- 7-day incidence / 30-day incidence ratio >0.31
- one or both of the following triggering criteria:
 - (a) >60% change in 3-day incidence,
 - (b) >60% change in 7-day incidence

The color indicates *current* acceleration in cases (ratio of 7-day to 30-day cases). Counties in **light red** and **red** are continuing to see accelerating cases in the most recent week, while those in **dark green** and **green** may have seen declines in the most recent week.

The bar charts below show the history of rapid riser counties by FEMA region and week, indicating when different geographic areas have seen the greatest acceleration in cases.

of Distinct Rapid Riser Counties by Week and FEMA Region
 (vertical axis scaled to number of counties in region)

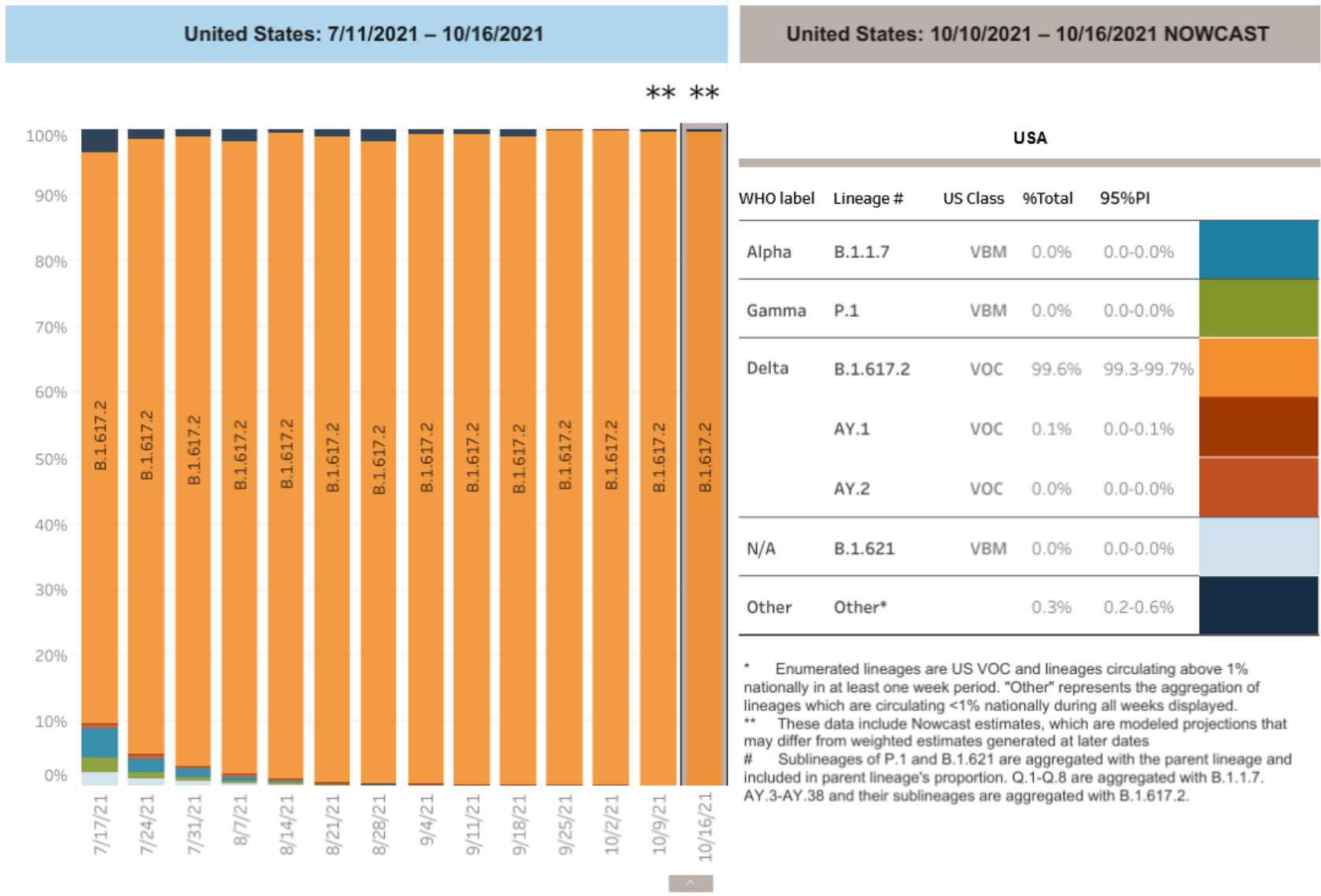


INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



Variant Proportions

<https://covid.cdc.gov/covid-data-tracker/#variant-proportions>



COVID-19 By the Numbers as of 10-18-2021













<https://www.cdc.gov/coronavirus/2019-ncov/cdcresponse/by-the-numbers.html>

COVID-19 RESPONSE BY THE NUMBERS

As of October 18, 2021



Accessible: www.cdc.gov/coronavirus/2019-ncov/cdcresponse/by-the-numbers.html

	9,811	CDC personnel supporting the outbreak response		50.2+ million	Times people have used CDC's online Coronavirus Self-Checker
	1,835	CDC deployers who have conducted 4,112 deployments to 341 cities across the United States and abroad		1.4+ million	Calls and emails to CDC-INFO
	363	COVID-19 studies published in CDC's Morbidity and Mortality Weekly Report (MMWR)		3.4+ billion	Times people have looked for information on CDC websites
	8,626	Documents providing information and guidance for government agencies, businesses, and the public		4.2+ billion	Social media impressions on 17,040 CDC response-related posts
	603+ million	COVID-19 tests conducted by public and private laboratories in the United States		88,000+	Inquiries from doctors, nurses, or other clinical staff and health departments received by CDC
	218+ million	People who have received at least one dose of a COVID-19 vaccine		189+ million	People who have been fully vaccinated with a COVID-19 vaccine

[cdc.gov/coronavirus](https://www.cdc.gov/coronavirus)

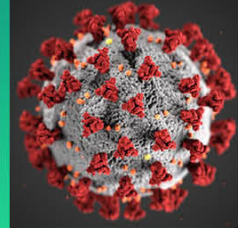
CS316565-A

COVID-19 Science Update

Prepared by Justin Czerniak
justin.czerniak@norcocollege.edu

Daily Situation Reports Archive
<https://www.norcocollege.edu/sep/Pages/reports.aspx>

COVID-19 Science Update



<https://www.cdc.gov/library/covid19/scienceupdates.html?Sort=Date%3A%3Adesc>

[COVID-19 Science Update released: October 22, 2021 Edition 110](#)

[COVID-19 Science Update released: October 15, 2021 Edition 109](#)

[COVID-19 Science Update released: October 8, 2021 Edition 108](#)

[COVID-19 Science Update released: October 1, 2021 Edition 107](#)

[COVID-19 Science Update released: September 24, 2021 Edition 106](#)

[COVID-19 Science Update released: September 17, 2021 Edition 105](#)

[COVID-19 Science Update released: September 10, 2021 Edition 104](#)

[COVID-19 Science Update released: August 20, 2021 Edition 103](#)

[COVID-19 Science Update released: August 13, 2021 Edition 102](#)

[COVID-19 Science Update released: August 6, 2021 Edition 101](#)

[COVID-19 Science Update released: July 30, 2021 Edition 100](#)

[COVID-19 Science Update released: July 23, 2021 Edition 99](#)

[COVID-19 Science Update released: July 16, 2021 Edition 98](#)

[COVID-19 Science Update released: July 9, 2021 Edition 97](#)

[COVID-19 Science Update released: July 2, 2021 Edition 96](#)

CDC What's New & Updated

<https://www.cdc.gov/coronavirus/2019-ncov/whats-new-all.html>

- [10/22/21 EARLY RELEASE: COVID-19 Vaccination and Non-COVID-19 Mortality Risk — Seven Integrated Health Care Organizations, United States, December 14, 2020–July 31, 2021](#)
- [10/22/21 EARLY RELEASE: Severity of Disease Among Adults Hospitalized with Laboratory-Confirmed COVID-19 Before and During the Period of SARS-CoV-2 B.1.617.2 \(Delta\) Predominance — COVID-NET, 14 States, January–August 2021](#)
- [10/22/21 Cases in the U.S.](#)
- [10/22/21 Overall US COVID-19 Vaccine Distribution and Administration Update as of Fri, 22 Oct 2021 06:00:00 EST](#)
- [10/22/21 COVID Data Tracker Recent Updates - 2021-10-21 - New How to Use CDC's COVID Data Tracker video shows users how to use COVID Data Tracker to follow pandemic trends and find key COVID-19 data](#)
- [10/22/21 COVID Data Tracker Recent Updates - 2021-10-21 - Updated COVID Data Tracker Vaccinations in the US tab now shows booster dose data by jurisdiction, including the count and % of the fully vaccinated population that has received a booster dose](#)
- [10/21/21 COVID-19 Science Update released: October 22, 2021 Edition 110](#)
- [10/21/21 Guidance for COVID-19 Prevention in Kindergarten \(K\)-12 Schools](#)
- [10/21/21 COVID-19 Contact Tracing Communications Toolkit for Health Departments](#)
- [10/21/21 COVID Data Tracker Weekly Review](#)
- [10/21/21 Coronavirus Disease 2019 \(COVID-19\)](#)
- [10/21/21 CDC Expands Eligibility for COVID-19 Booster Shots](#)
- [10/21/21 Effectiveness of Pfizer-BioNTech mRNA Vaccination Against COVID-19 Hospitalization Among Persons Aged 12–18 Years — United States, June–September 2021](#)
- [10/20/21 Daily Activities](#)
- [10/20/21 COVID-19 Vaccines for Children and Teens](#)
- [10/20/21 Health Equity in Action](#)
- [10/20/21 Staffing Resources](#)
- [10/20/21 Frequently Asked Questions about COVID-19 Vaccination](#)
- [10/20/21 COVID-19 Testing Overview](#)
- [10/20/21 Frequently Asked Questions](#)
- [10/19/21 COVID-19 Forecasts: Deaths](#)
- [10/19/21 Different COVID-19 Vaccines](#)
- [10/19/21 COVID-19 Forecasts: Cases](#)

CDC Guidance

<https://www.cdc.gov/coronavirus/2019-ncov/communication/guidance-list.html?Sort=Date%3A%3Adesc>

[Guidance for COVID-19 Prevention in K-12 Schools](#)

See guidance on COVID-19 prevention in kindergarten (K)-12 schools including promoting vaccination, mask use, and physical distancing.
Date: 10/21/21

[Considerations for Case Investigation and Contact Tracing in K-12 Schools and Institutions of Higher Education \(IHEs\)](#)

Learn what administrators of K-12 schools and institutions of higher education should know about COVID-19 case investigation and contact tracing. Date: 10/18/21

[Standard Operating Procedure \(SOP\) for Triage of Suspected COVID-19 Patients in non-US Healthcare Settings: Early Identification and Prevention of Transmission during Triage](#)

This document is provided by CDC and is intended for use in non-US healthcare settings. This document is intended for healthcare facilities that are receiving or are preparing to receive patients with suspected or confirmed coronavirus disease 2019 (COVID-19).
Date: 10/17/21

[Interim Public Health Recommendations for Fully Vaccinated People](#)

Interim public health recommendations describing the type of activities people who are fully vaccinated can do once fully vaccinated.
Date: 10/14/21

[COVID-19 Vaccination Program Operational Guidance](#)

Operational guidance for COVID-19 Vaccination Program jurisdictions operations. Date: 10/13/21

[Operational Considerations for Personal Protective Equipment in the Context of Global Supply Shortages for Coronavirus Disease 2019 \(COVID-19\) Pandemic: non-US Healthcare Settings](#)

Considerations for personal protective equipment (PPE) in the context of global supply shortages in non-US healthcare settings.
Date: 10/11/21

[Evaluation for SARS-CoV-2 Testing in Animals](#)

This is guidance for state public health veterinarians and state animal health officials to help guide decisions on testing animals for SARS-CoV-2. Date: 10/11/21

[Interim Guidance for SARS-CoV-2 Testing in Non-Healthcare Workplaces](#)

Guidance for employers for COVID-19 testing incorporation in the workplace and COVID-19 preparedness, response, and control plan.
Date: 10/6/21

California Takes Action to Combat COVID-19

<https://www.gov.ca.gov/california-takes-action-to-combat-covid-19/>



State Data

<https://covid19.ca.gov/>
<https://update.covid19.ca.gov/#top>
<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/ncov2019.aspx#>
<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/CovidDataAndTools.aspx>

Safely reopening California

<https://covid19.ca.gov/safely-reopening/>

Blueprint for a Safer Economy – COVID-19 and Equity

<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/CaliforniaHealthEquityMetric.aspx>

California Healthy Places Index

<https://covid19.healthyplacesindex.org/>
<https://map.healthyplacesindex.org/>

Safe Schools for All

<https://schools.covid19.ca.gov/>

CDPH

<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/DCDC.aspx>

CDPH Statewide Guidance

<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Guidance.aspx>



Office of Governor
GAVIN NEWSOM

Press Releases, Executive Orders, Media Advisories,
Proclamations, and “On the Record” Column

<https://www.gov.ca.gov/newsroom/>

Data models

<https://covid19.ca.gov/data-and-tools/>

Cal/OSHA

<https://www.dir.ca.gov/dosh/>
<https://www.dir.ca.gov/dosh/COVID19citations.html>
<https://www.dir.ca.gov/oshab/oshab.html>

Vaccines

<https://covid19.ca.gov/vaccines/>
<https://myturn.ca.gov/>

News Releases

<https://www.cdph.ca.gov/Programs/OPA/Pages/News-Releases-2021.aspx>



Updated October 22, 2021, with data from October 21, 2021.

Vaccinations administered in California, by county of residence.

<https://covid19.ca.gov/vaccination-progress-data/>

Statewide

24,549,354 (72.3%) People fully vaccinated
2,652,429 (7.8%) People partially vaccinated

51,697,834 (86.1%) Doses administered
78,892 Average doses per day



1,699,193 Booster Doses Administered



4,722,836 Doses on hand
(60 days of inventory)

60,014,445 Doses Delivered



21,534,650 CDC Pharmacy Doses Delivered

See [Data Dictionary](#) for Details.

Doses Administered by County of Residence

County

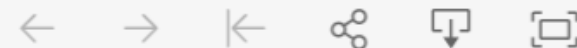
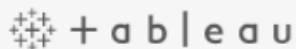
(All) ▾



Los Angeles	13,300,682
San Diego	4,627,749
Orange	4,276,754
Santa Clara	3,006,884
Riverside	2,685,278
Alameda	2,451,472
San Bernardino	2,236,599
Sacramento	1,903,382
Contra Costa	1,747,945
San Francisco	1,388,713
San Mateo	1,189,852
Ventura	1,125,614
Fresno	1,091,551
San Joaquin	846,140
Kern	837,693
Sonoma	722,612
Stanislaus	580,517
Santa Barbara	570,801
Monterey	560,086
Solano	557,193

* Today's administration data is incomplete due to data processing latency. This report will be updated as soon as the data becomes available.

Data: 10/21/2021 11:59pm | Posted: 10/22/2021



Post-Vaccine COVID-19 Cases

<https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Post-Vaccine-COVID19-Cases.aspx>

What Is a Post-Vaccination COVID-19 Case?

Post-vaccination cases are defined as individuals who are fully vaccinated and have a positive SARS-CoV-2 molecular (e.g. PCR) test 14 days or more after they have completed their full one-dose or two-dose COVID-19 vaccination series. They are also referred to as vaccine breakthrough cases.

How Are Post-Vaccination COVID-19 Cases Identified?

The California Department of Public Health (CDPH) is identifying post-vaccination cases by analyzing the immunization and case registries to find individuals who have a positive SARS-Cov-2 molecular test at least 14 days after they have completed their full vaccination series. Local Health Jurisdictions (LHJs) are also encouraged to alert CDPH of post-vaccination cases especially if they result in severe disease (e.g., hospitalization or death) or if they are associated with an outbreak.

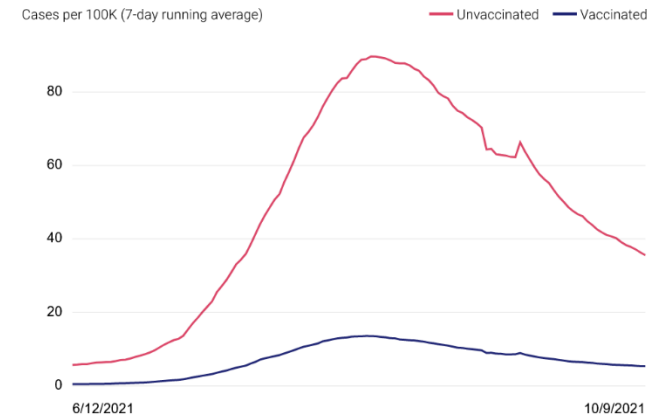
Why are we Tracking Post-Vaccination Cases?

Tracking cases of COVID-19 that occur after vaccination is important for monitoring the immunization campaign. While COVID-19 vaccines are safe and effective, some cases are still expected in persons who have been vaccinated, as no vaccine is 100% effective. If the number or severity of post-vaccination cases exceeds expected levels, this could be a signal of reduced protection against a variant or errors in vaccine delivery. Whole genome sequencing of post-vaccination cases, especially severe cases, can help characterize the effectiveness of current vaccines against variants.

Unvaccinated and vaccinated data

<https://covid19.ca.gov/state-dashboard/#postvax-status>

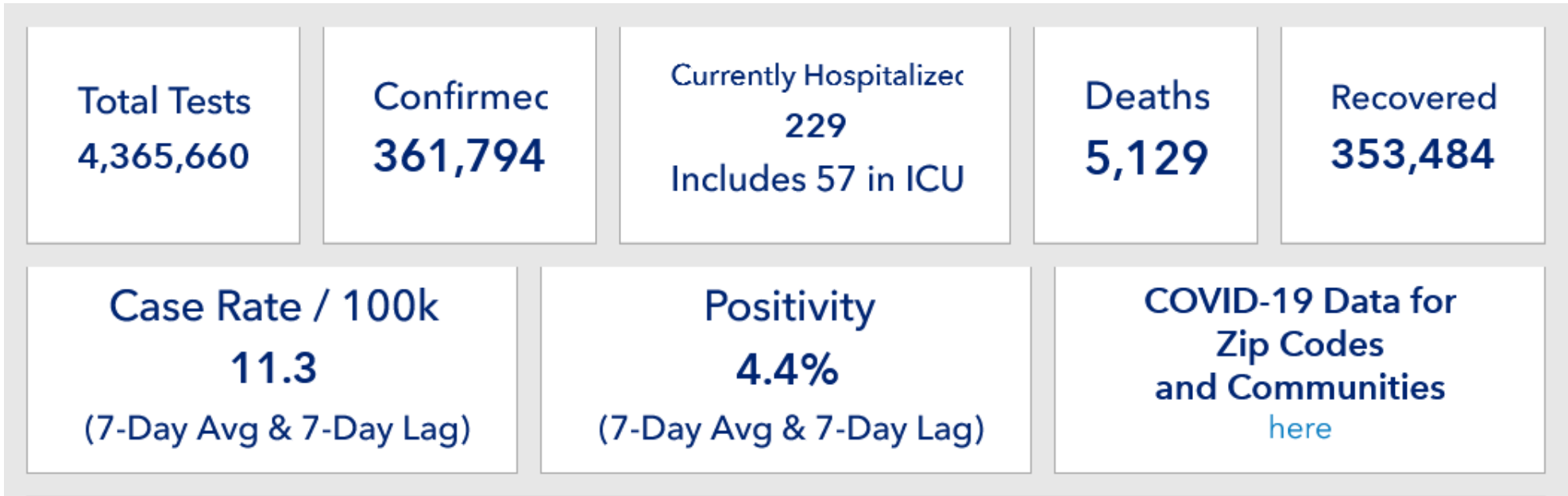
From October 3, 2021 to October 9, 2021, unvaccinated people were **6.6 times more likely** to get COVID-19 than fully vaccinated people.





Riverside County Data

<https://www.rivcoph.org/coronavirus>



Dashboard -Click [here](#) for more detailed city/community data and reports

RUHS Public Health News:

- Booster vaccine doses available in Riverside County from Public Health and community partners [English](#) / [Spanish](#)
- Health officials confirm death of 4-year-old is COVID-19 related [English](#) / [Spanish](#)
- [Black barbershops, salons in RivCo join the fight against vaccine hesitancy](#)
- Additional vaccine available for individuals in Riverside County with immunocompromised health [English](#) / [Spanish](#) - August 19, 2021
- COVID-19 vaccine clinics closing in Hemet, Desert Hot Springs, Moreno Valley and Perris [English](#) / [Spanish](#) - August 12, 2021
- Vaccine clinics closing in Riverside and Lake Elsinore as health officials continue focus on mobile teams [English](#) / [Spanish](#) - July 30, 2021

COVID-19 Vaccine

<https://www.rivcoph.org/COVID-19-Vaccine>

RUHS Public Health:

- [Pfizer Covid Vaccine Updated EUA – August 23, 2021](#)
- [Fact Sheet for Healthcare Providers Administering Vaccine \(Vaccination Providers\) Emergency Use Authorization \(EUA\) of the Pfizer-Biontech Covid-19 Vaccine to Prevent Coronavirus Disease 2019 \(Covid-19\) – August 23, 2021](#)

RIVERSIDE COUNTY DAILY COVID-19 REPORT

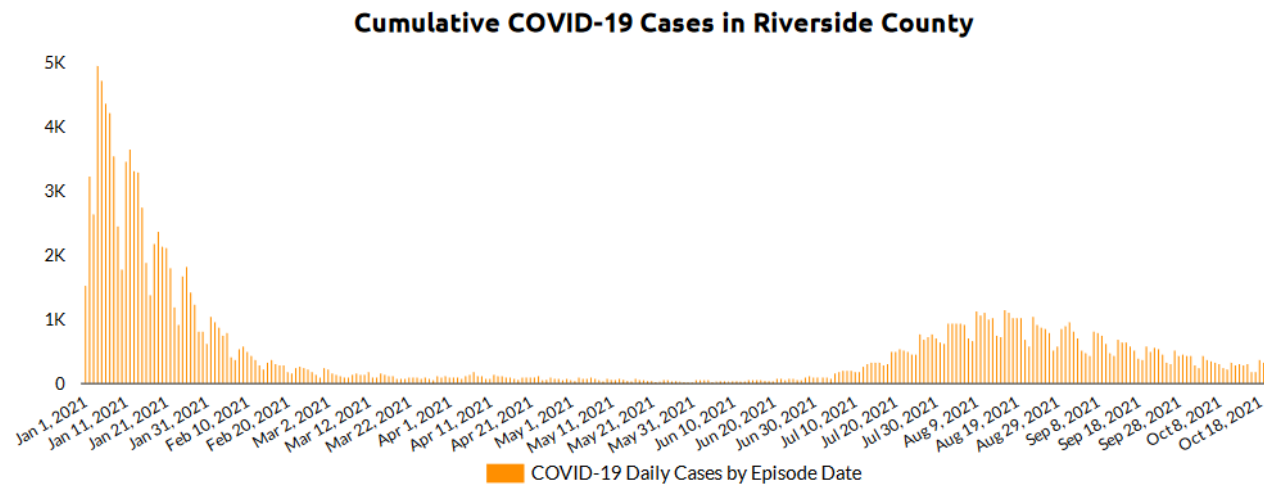
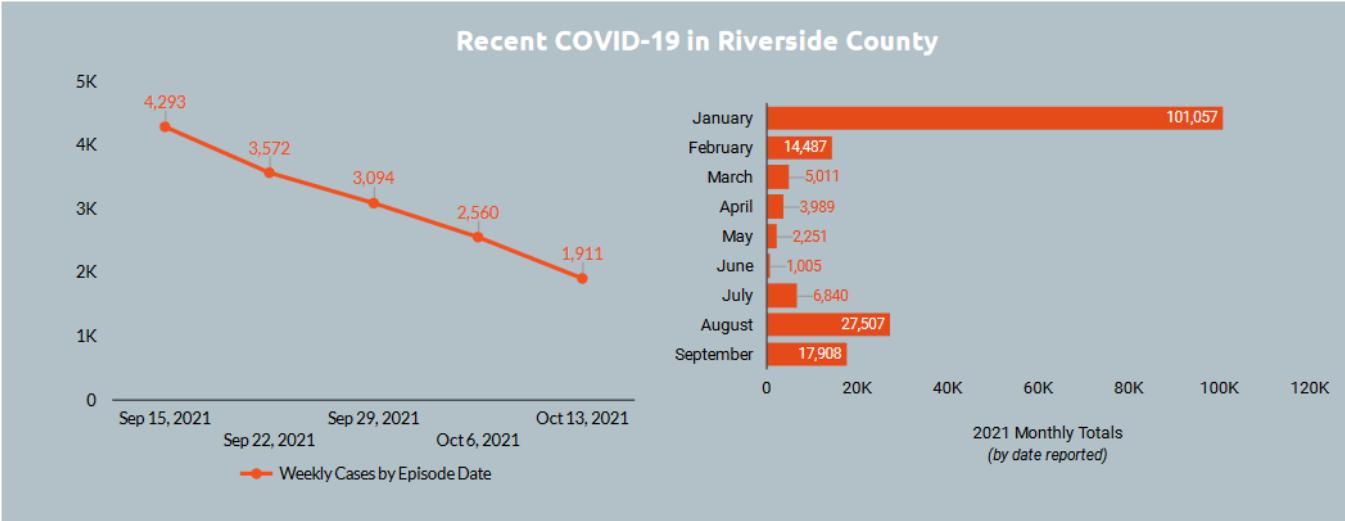
<https://www.rivcoph.org/Portals/0/Documents/CoronaVirus/Reports/DailyEpidemiologySummary.pdf?x=1633733201144>

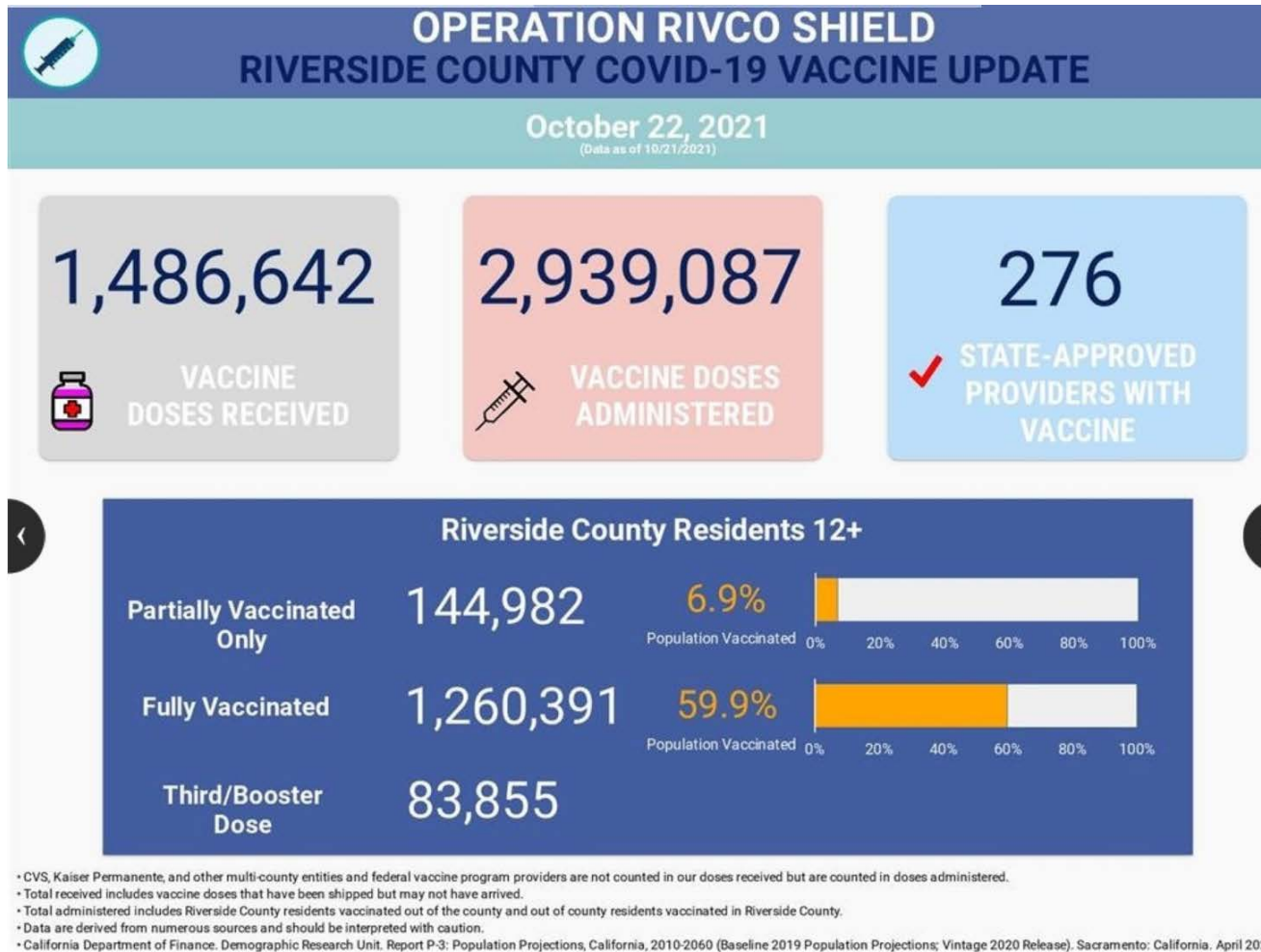
Oct 22, 2021

RIVERSIDE COUNTY COVID-19 CASES




- TOTAL CASES**
362,003
- NEW REPORTED CASES**
209
- TOTAL DEATHS**
5,134
- NEW DEATHS**
5
- TOTAL RECOVERED**
353,494
- PROBABLE CASES***
16,382
- CURRENT HOSPITALIZED (includes ICU)**
243
- CURRENT ICU**
56
- DOUBLING TIME**
294.0





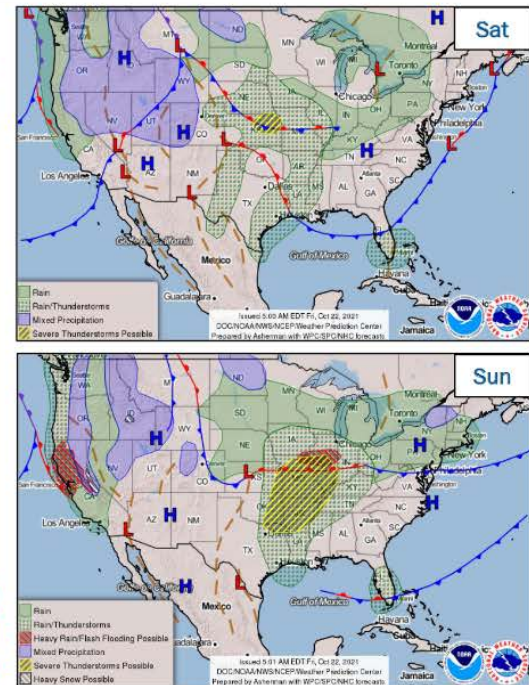
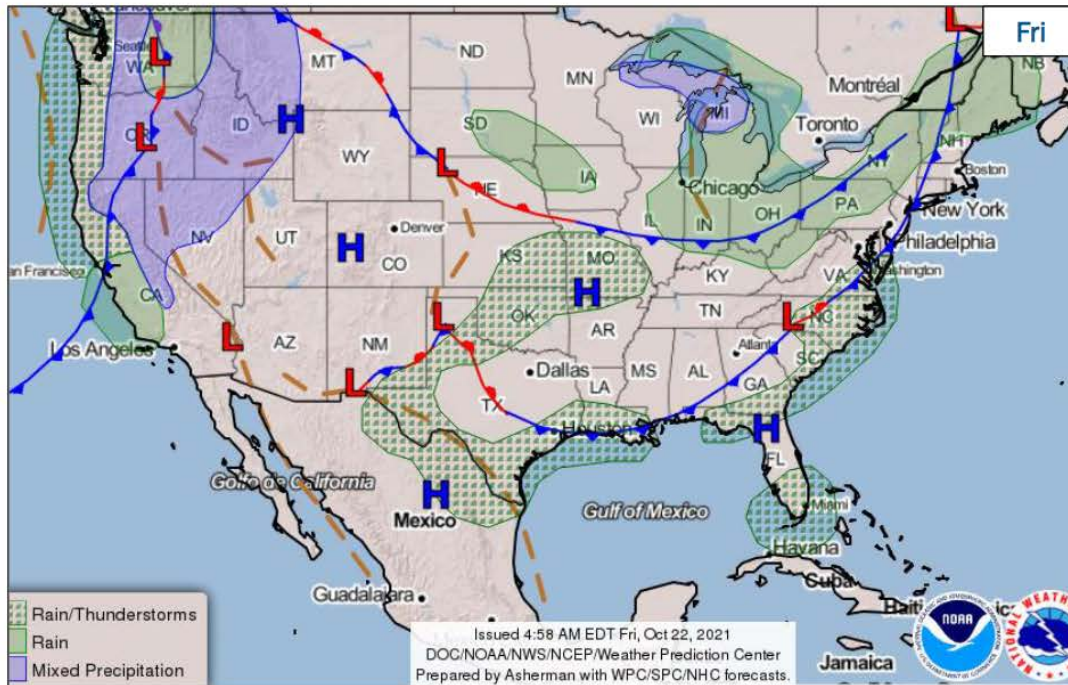
Weather

 National Weather Service San Diego, California		<h2 style="text-align: right;">Weather Risk Outlook</h2> <div style="text-align: right; border: 1px solid black; padding: 2px;">12:00 PM Friday, October 22, 2021</div>						
County	Zone	Fri 10/22	Sat 10/23	Sun 10/24	Mon 10/25	Tue 10/26	Wed 10/27	Thu 10/28
San Diego	Beach/Marine	None	Surf Wind on the Outer Waters	Surf	Surf, Rain Marine Wind	Surf	Surf	None
	Coast	None	None	None	Rain	None	None	None
	Valleys	None	None	None	Rain	None	None	None
	Mountains	None	None	None	Rain Wind	None	None	None
	Desert	None	None	None	Rain Wind	None	None	None
Orange	Beach	None	Surf	Surf	Surf Rain	Surf	Surf	None
	Coast	None	None	None	Rain	None	None	None
	Inland	None	None	None	Rain	None	None	None
	Mountains	None	None	None	Rain Wind	None	None	None
Riverside	Inland Empire	None	None	None	Rain	None	None	None
	Mountains	None	None	None	Rain Wind	None	None	None
	Desert	None	None	None	Rain Wind	None	None	None
San Bernardino	Inland Empire	None	None	None	Rain	None	None	None
	Mountains	None	None	None	Heavy Rain Wind	None	None	None
	Desert	None	None	None	Rain Wind	None	None	None
		Impact Threat Levels		None	Minor	Moderate	High	Extreme

Latest hazard threat table: <https://www.wrh.noaa.gov/sgx/event/dsstable.php>

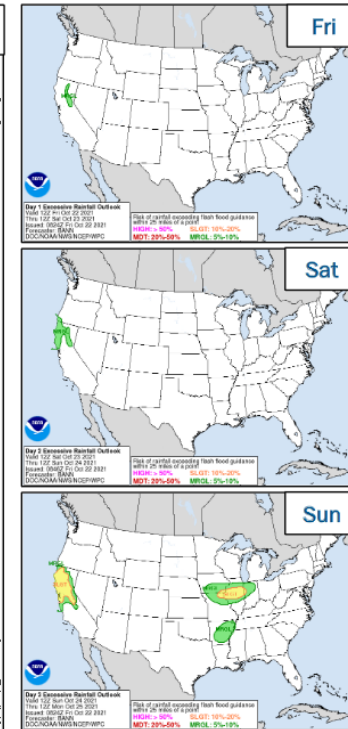
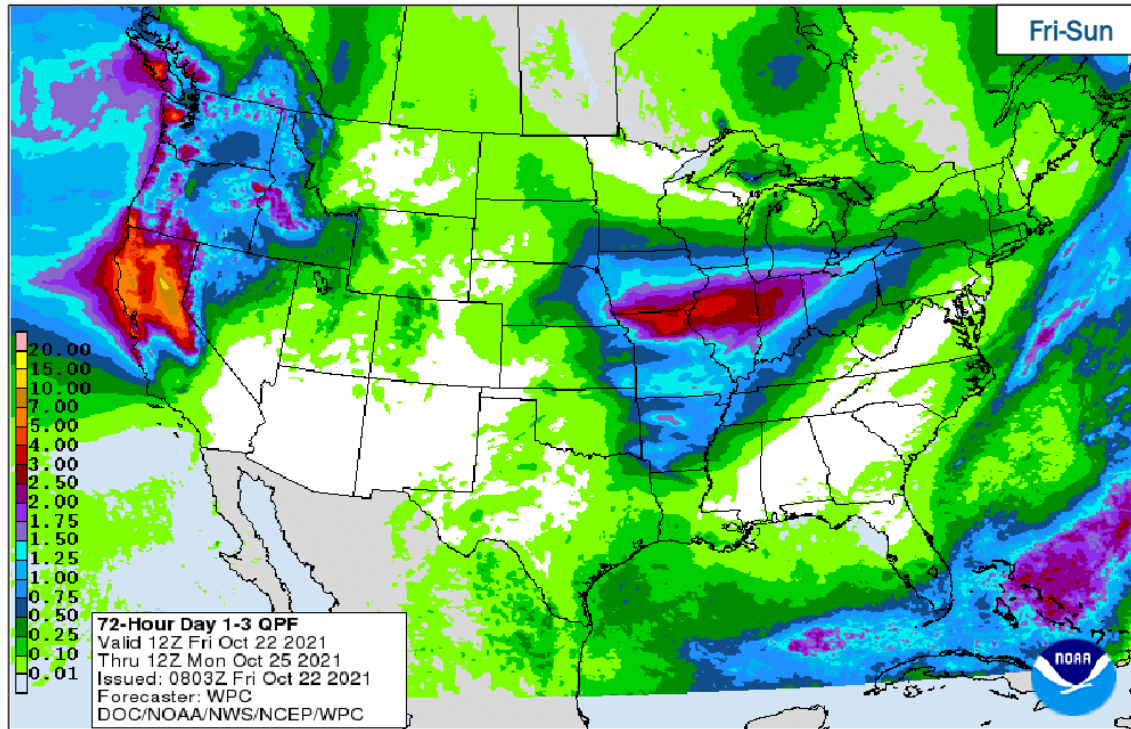
<https://www.weather.gov/forecastpoints#>

National Weather Forecast



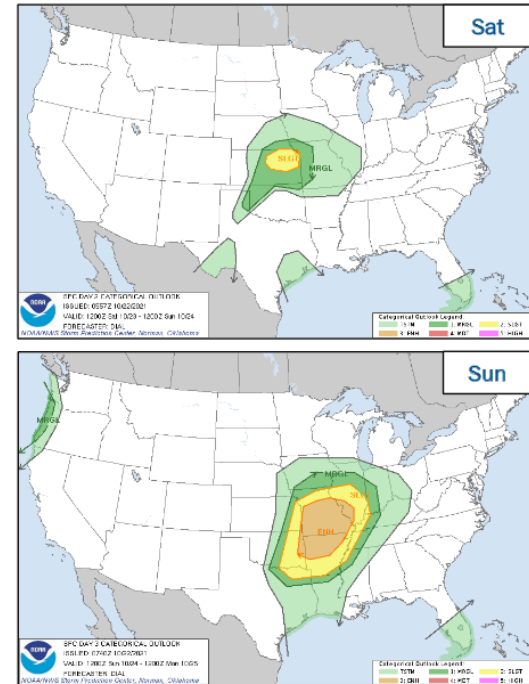
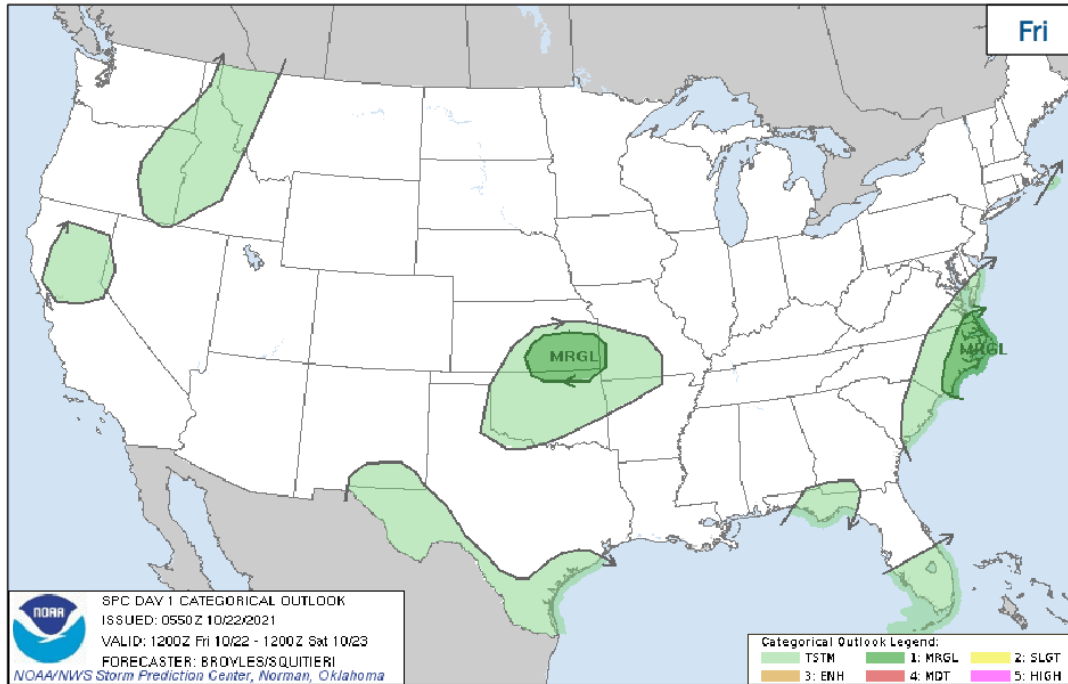
National Watch Center

Precipitation & Excessive Rainfall



National Watch Center

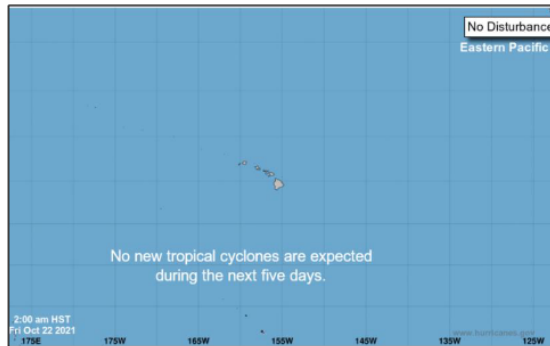
Severe Weather Outlook



National Watch Center

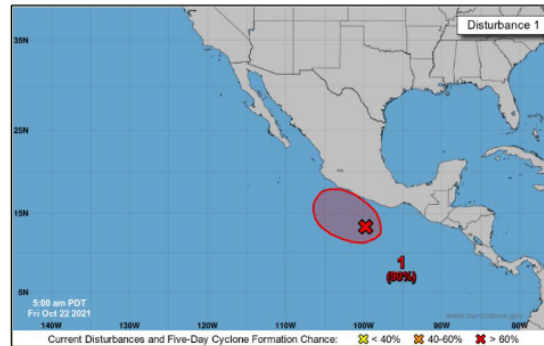
Tropical Outlook – Five Day

Central Pacific



- No significant activity

Eastern Pacific



Disturbance 1 (as of 8:00 a.m. ET)

- 250 miles S of Acapulco, Mexico
- Tropical depression or tropical storm could form later today
- Formation chance through 48 hours: High (90%); 5 days: High (90%)

Atlantic

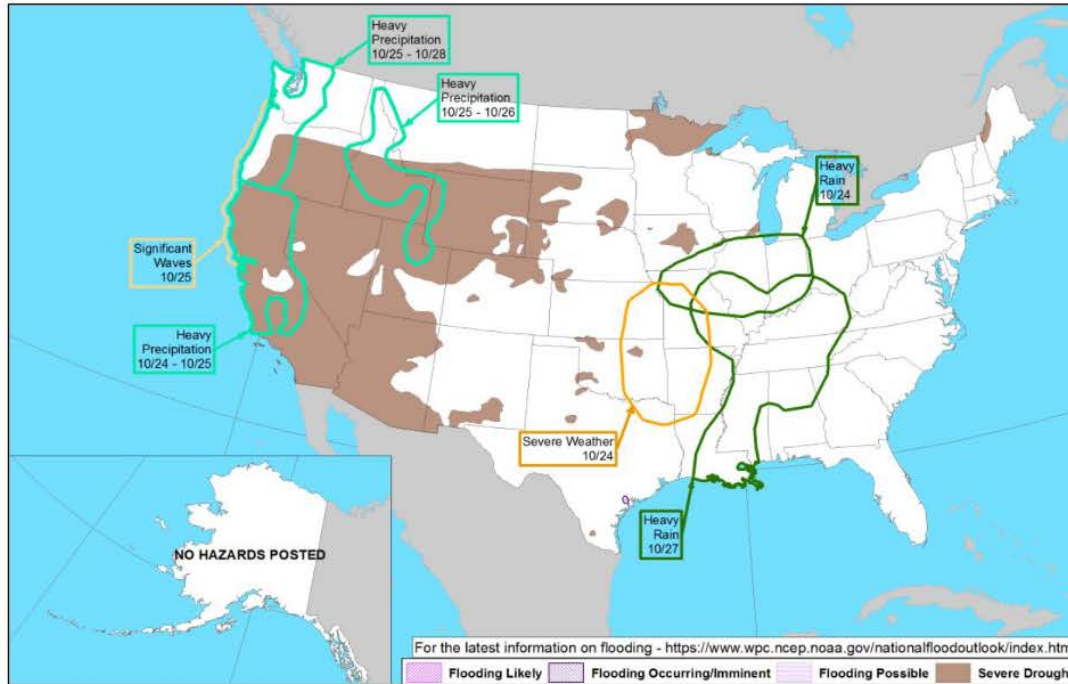


- No significant activity



National Watch Center

Hazards Outlook – Oct 24-28

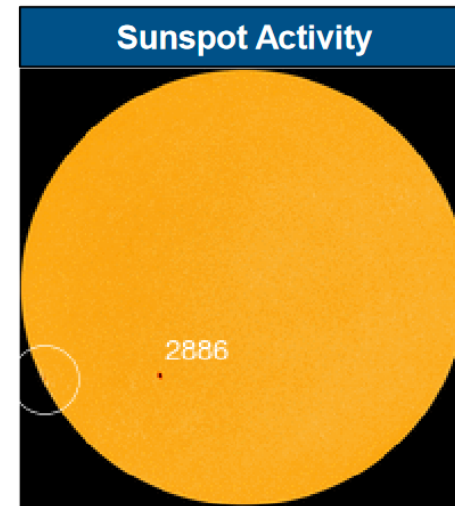
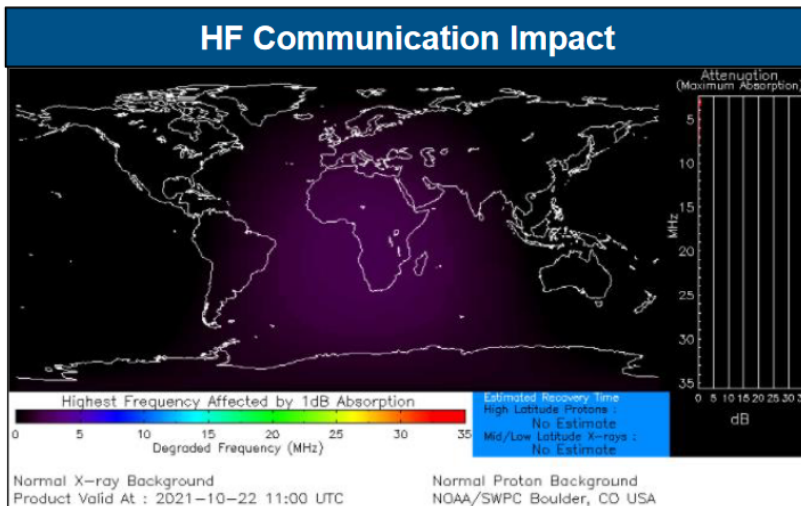


National Watch Center

Space Weather Outlook

	Space Weather Activity	Geomagnetic Storms	Solar Radiation	Radio Blackouts
Past 24 Hours	None	None	None	None
Next 24 Hours	None	None	None	None

For further information on NOAA Space Weather Scales refer to: <http://www.swpc.noaa.gov/noaa-scales-explanation>
 For further information on Sunspot Activity refer to: <https://www.swpc.noaa.gov/phenomena/sunspotsolar-cycle>

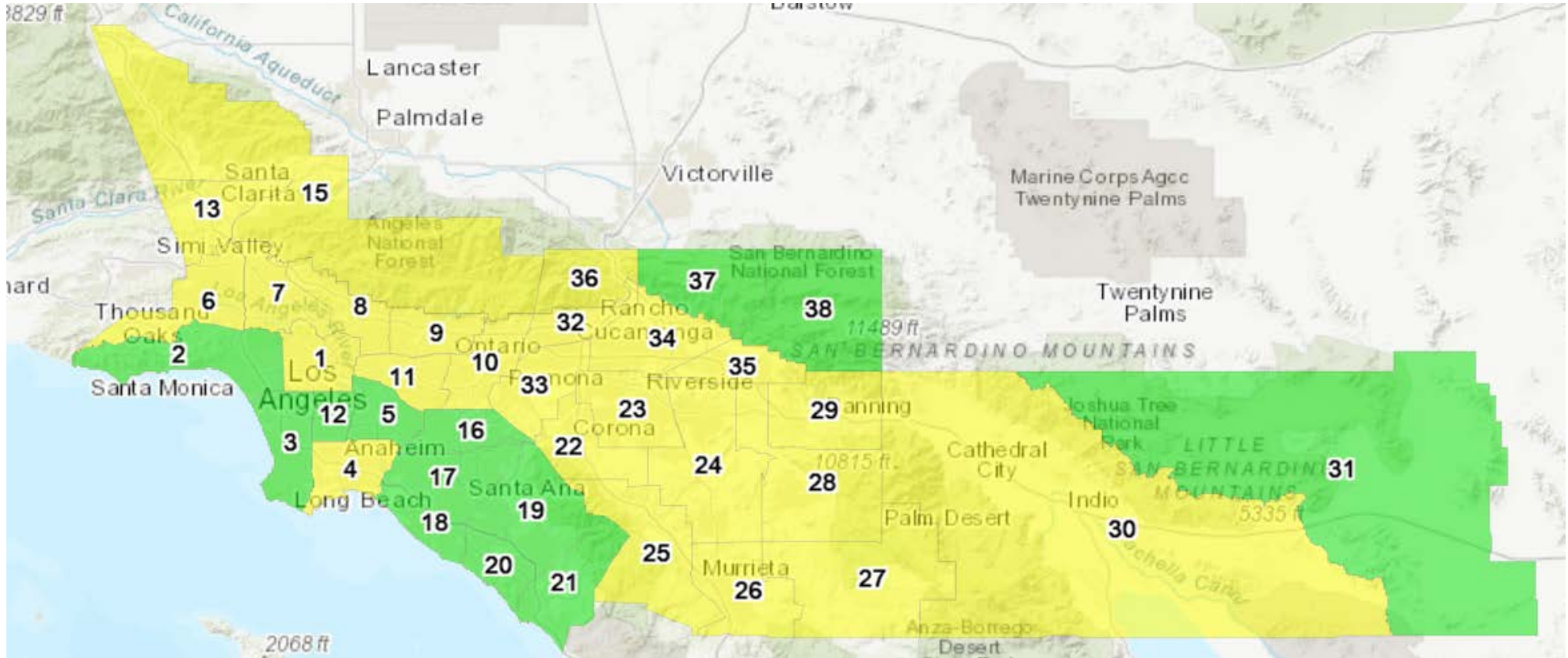


FEMA

National Watch Center

Today's Forecast

<https://www.arcgis.com/apps/webappviewer/index.html?id=85c7770bac684749a631bd7b42eac1b7>



Legend

The Air Quality Index (AQI) is an index for reporting daily air quality that conveys how air pollution can affect public health. The AQI is divided into six levels of health concern:

- AQI Value
- Hazardous (301-500)
 - Very Unhealthy (201-300)
 - Unhealthy (151-200)
 - Unhealthy for Sensitive Groups (101-150)
 - Moderate (51-100)
 - Good (0-50)