



# Situation Summary

## Friday, April 29, 2022 - Day 779 of the Pandemic

### Update as of 2:00 PM

**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.

### COVID-19 by the Numbers

4/29/2022	Riverside	Imperial	Kern	Los Angeles*	Orange	San Bernardino	San Diego	San Luis Obispo	Santa Barbara	Ventura	California	United States	Global
Total Cases	593,397	55,480	238,542	2,731,988	550,859	568,018	759,873	52,911	86,557	174,425	8,584,176	81,094,164	510,270,667
Total Cases Per Capita	24,042	28,949	25,726	26,634	17,062	25,616	22,545	18,974	18,966	20,454	21,391	24,281	6,444
% of Total Cases/Population	24.04%	28.95%	25.73%	26.63%	17.06%	25.62%	22.55%	18.97%	18.97%	20.45%	21.39%	24.28%	6.44%
Recovered*	<a href="#">592,391</a>	<a href="#">51,626</a>	<a href="#">239,619</a>	<a href="#">Not Reported</a>	<a href="#">540,282</a>	<a href="#">563,024</a>	<a href="#">Not Reported</a>	<a href="#">52,932</a>	<a href="#">86,221</a>	<a href="#">172,090</a>	<a href="#">8,963,586</a>	<a href="#">80,623,403</a>	<a href="#">466,283,127</a>
% of total recovered/population	24.00%	26.94%	25.84%	Not Reported	16.73%	25.39%	Not Reported	18.98%	18.89%	20.18%	22.34%	24.14%	5.89%
Total Deaths	6,453	910	444	31,691	6,991	7,105	5,236	476	685	1,480	44,220	990,527	6,233,526
Deaths Per Capita	261.45	474.83	47.88	308.95	216.54	320.42	155.35	170.69	150.10	173.56	110.19	296.59	78.72
% of Total Deaths/Population	0.26%	0.47%	0.05%	0.31%	0.22%	0.32%	0.16%	0.17%	0.15%	0.17%	0.11%	0.30%	0.08%
% of State's Cases	6.91%	0.65%	2.78%	31.83%	6.42%	6.62%	8.85%	0.62%	1.01%	2.03%	10.59%	15.89%	
Total Hospital Beds	3,462	202	1,086	19,361	5,973	3,709	6,535	445	604	1,195	66,677		
Currently in Hospitals	44	3	20	253	76	30	95	4	11	15	1,025		
Hospital Beds Available**	3,418	199	1,066	19,108	5,897	3,679	6,440	441	593	1,180	65,652		
Total Hospital ICU Beds**	115	10	30	690	178	190	271	22	31	31	2,303		
Currently in ICU	7	1	4	60	11	6	13	0	2	3	130		
ICU Beds Available	108	9	26	630	167	184	258	22	29	28	2,173		
Case Fatality Rate	1.09%	1.64%	0.19%	1.16%	1.27%	1.25%	0.69%	0.90%	0.79%	0.85%	0.52%	1.22%	1.22%
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	333,976,981	7,918,710,000
% of State Population	6.15%	0.48%	2.31%	25.56%	8.05%	5.53%	8.40%	0.69%	1.14%	2.13%	12.02%	4.22%	

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

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. (\*Many County sites do not report recovery rates or are only updating once a week)( \*\* based on calculation)(\*\*\*California Demographics from State Database Blueprint Data Chart 12-15-20 & census.gov)

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**US Data**  
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**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.

**South Africa may be entering fifth Covid wave earlier than expected**

- South Africa may be entering a fifth Covid wave earlier than expected after a sustained rise in infections over the past 14 days that seems to be driven by the BA.4 and BA.5 Omicron sub-variants, health officials and scientists have said.
- The country that has recorded the most coronavirus cases and deaths on the African continent only exited a fourth wave around January and had predicted a fifth wave could start in May or June, early in the southern hemisphere winter.
- Senior health official Nicholas Crisp also said on Friday South Africa had enough vaccine doses and was not planning to procure more. He added the government was not intending to buy Pfizer’s Covid treatment pill Paxlovid for public sector patients, partly because it was very expensive.

<https://www.theguardian.com/world/2022/apr/29/south-africa-fifth-covid-wave-infections-omicron>

**Ukraine/Russia: As War Continues, Africa Food Crisis Looms**

- Russia’s invasion of Ukraine has worsened the food security crisis in many African countries, Human Rights Watch said today. Many countries in East, West, Middle, and Southern Africa rely on Russia and Ukraine for a significant percentage of their wheat, fertilizer, or vegetable oils imports, but the war disrupts global commodity markets and trade flows to Africa, increasing already high food prices in the region. Even countries that import little from the two countries are indirectly impacted by higher world prices for key commodities.
- “Many countries in Africa were already in a food crisis,” said [Lena Simet](#), senior researcher on poverty and inequality at Human Rights Watch. “Rising prices are compounding the plight of millions of people thrown into poverty by the Covid-19 pandemic, requiring urgent action by governments and the international community.”
- Under global and [African human rights law](#) everyone has the right to sufficient and adequate food. To protect this right, governments are obligated to enact policies and initiate programs to ensure that everyone can afford safe and nutritious food. [Social protection systems](#) that implement the right to social security for all can be key instruments for [realizing](#) the right to food.
- Food insecurity is increasing in many African countries in a context of minimal social protection. In 2020, [8 out of 10](#) Africans were not covered by any form of social protection, according to the International Labour Organization (ILO). Cameroon, where 55.8 percent of the population is food insecure, has no comprehensive social protection system. Only 7.1 percent of the population, and 2.2 percent of children, are covered by at least one social protection benefit, leaving most people in need without any support. Human Rights Watch [research](#) of Covid-19 relief measures in Ghana, Kenya, Nigeria, and Uganda found that the support governments expanded or introduced during the pandemic was temporary, insufficient, or prone to corruption.

Country	Wheat Import Dependency Ratio (IDR), 2021	Wheat imports, 2020	Share of wheat imports from Russia and Ukraine, 2020
Nigeria	109	\$2.15B	26%
Cameroon	100	\$183M	45%
Uganda	95.2	\$119M	48%
Tanzania	91.7	\$219M	74%
Kenya	85.1	\$400M	36%
Sudan	73.5	\$530M	58%
South Africa	47.5	\$494M	26%
Zimbabwe	41.7	\$94.8M	15%

*Data sources: USDA and Observatory for Economic Complexity*

<https://www.hrw.org/news/2022/04/28/ukraine/russia-war-continues-africa-food-crisis-looms#>

## The Drive to Vaccinate the World Against Covid Is Losing Steam

- In the middle of last year, the WHO began promoting an ambitious goal, one it said was essential for ending the pandemic: fully vaccinate 70 percent of the population in every country against Covid-19 by June 2022.
- Now, it is clear that the world will fall far short of that target by the deadline. And there is a growing sense of resignation among public health experts that high Covid vaccination coverage may never be achieved in most lower-income countries, as badly needed funding from the United States dries up and both governments and donors turn to other priorities.
- “The reality is that the momentum has been lost,” said Isaac Adewole, a former Nigerian health minister who now works as a consultant to the Africa Centers for Disease Control and Prevention.
- Only a handful [of the world's 82 poorest countries](#) — have reached the 70 percent vaccination threshold. According to data compiled from government sources by Oxford University's Our World in Data project , many are below 20 percent.
- By comparison, about two-thirds of the world's richest countries have reached 70 percent. (The United States is at 66 percent.)
- Giving up achieving high vaccination coverage globally could have serious consequences. If that global effort is abandoned, public health experts say dangerous new variants may emerge, threatening the world's precarious attempts to live with the virus.
- In recent months, countries around the world, including some in Eastern Europe and the Middle East, have seen their vaccination rates plateau at a third or less of their population. But Africa's vaccination rate remains the most dismal.
- Fewer than 17 percent of Africans have received a basic immunization against covid. So far, nearly half of the vaccine doses delivered to the continent have gone unused. Last month, the number of doses injected on the mainland fell by 35 percent compared to the month of February. The WHO authorities attributed this drop to the fact that in several countries they replaced the mass vaccination program with smaller-scale campaigns.
- Some global health experts indicate that last year the world missed a great opportunity to vaccinate lower-income countries, back then people were more afraid of covid and more motivated to get vaccinated.

<https://www.nytimes.com/2022/04/23/health/covid-vaccines-world-africa.html>

## EU ends emergency phase of coronavirus pandemic

- The EU declared an end on Wednesday to the coronavirus emergency as pressures on hospitals recede and countries drop restrictions.
- “We are entering a new phase of the pandemic, as we move from emergency mode to a more sustainable management of COVID-19,” said European Commission President Ursula von der Leyen. “Yet, we must remain vigilant. Infection numbers are still high in the EU and many people are still dying from COVID-19 worldwide.”
- In an attempt to return to normal, new Commission guidance calls on member countries to fold their coronavirus testing programs into the broader surveillance of respiratory diseases. Testing shouldn't aim to capture “all cases” but to obtain reliable estimates. Monitoring for new variants will be stepped up, with EU help, and health capacity should also be prepared in case there is a resurgence of the virus.
- Several EU member countries have already shifted to viewing COVID-19 as “endemic.” While over two-thirds of the EU's adult population has been vaccinated against COVID, low vaccination rates in some member countries mean their populations remain vulnerable.

<https://www.politico.eu/article/eu-ends-emergency-phase-of-coronavirus-pandemic/>

## **Severe hepatitis outbreak in healthy kids possibly linked to adenovirus infection, WHO officials say**

- An outbreak of severe hepatitis in healthy children that has caused liver failure in some kids might be linked to adenovirus infection, though further investigation is needed, WHO officials said on Thursday.
- Eleven countries, including the U.S., have reported at least 169 cases of severe acute hepatitis in children aged 1 month to 16 years old with the largest outbreak in the U.K, according to the latest WHO report. At least 17 children have required liver transplants and one patient has died.
- “What is particularly unusual is that the majority of these children were previously healthy,” Dr. Philippa Easterbrook, a WHO official who monitors hepatitis, said during a question and answer session livestreamed social media Thursday.
- At least 74 of the children have tested positive for adenovirus, according to the WHO. Adenoviruses are common and usually cause respiratory illness but can also result in stomach pain, pink eye and bladder infections.
- At least 20 of the children had Covid, with 19 of them testing positive for that virus as well as adenovirus, according WHO data. Dr. Richard Peabody, who leads WHO Europe’s high-threat pathogens team said it’s possible Covid also is playing a role in the hepatitis outbreak, though it’s not clear and more investigation is needed to determine if that’s the case.

<https://www.cnbc.com/2022/04/28/hepatitis-outbreak-in-kids-may-be-linked-to-adenovirus-who-says.html>

## **Measles cases surge nearly 80% in wake of Covid chaos, with fears other diseases could follow**

- Measles cases have surged nearly 80% worldwide this year amid disruption caused by Covid-19, the UN has said, warning that the rise of the “canary in a coalmine” illness indicated that outbreaks of other diseases were likely to be on the way.
- The coronavirus pandemic has interrupted vaccination campaigns for non-Covid diseases around the world, creating a “perfect storm” that could put millions of children’s lives at risk, the UN’s children’s agency Unicef and the World Health Organization (WHO) said in a statement.
- Yellow fever was among the diseases that could surge next, he said, after rising cases were reported in west Africa.
- “We’re particularly worried about those countries that are most fragile, where the healthcare systems are already really struggling, where they’re still trying to deal with the impacts of Covid on top of these outbreaks,” he said.

<https://www.theguardian.com/technology/2022/apr/28/measles-cases-surge-nearly-80-in-wake-of-covid-chaos-with-fears-other-diseases-could-follow>

## **Covid deaths no longer overwhelmingly among unvaccinated as toll on elderly grows**

- Unvaccinated people accounted for the overwhelming majority of deaths in the United States throughout much of the coronavirus pandemic. But that has changed in recent months, according to a Washington Post analysis of state and federal data.
- The pandemic’s toll is no longer falling almost exclusively on those who chose not to get shots, with vaccine protection waning over time and the elderly and immunocompromised — who are at greatest risk of succumbing to covid-19, even if vaccinated — having a harder time dodging increasingly contagious strains.
- The vaccinated made up 42 percent of fatalities in January and February during the highly contagious omicron variant’s surge, compared with 23 percent of the dead in September, the peak of the delta wave, according to nationwide data from the CDC analyzed by The Post. The data is based on the date of infection and limited to a sampling of cases in which vaccination status was known.

<https://www.washingtonpost.com/health/2022/04/29/covid-deaths-unvaccinated-boosters/>

## **NIH Research Matters: Antibodies recognize new SARS-CoV-2 Omicron variant after booster**

- After a booster vaccination, levels of antibodies in the blood that could bind to and neutralize a new Omicron subvariant increased substantially.
- The quick spread of this new subvariant, called BA.2, is likely due to its greater infectiousness rather than its ability to evade the immune system.

<https://www.nih.gov/news-events/nih-research-matters/antibodies-recognize-new-sars-cov-2-omicron-variant-after-booster>

## **The US is in ‘transition phase’ of pandemic, Fauci says**

- The United States is “certainly, right now, in this country, out of the pandemic phase,” Dr. Anthony Fauci, chief medical adviser and the director of the NIAID, said on PBS’s “NewsHour” Tuesday. “We’re not over the pandemic. Don’t let anybody get the misinterpretation that the pandemic is over, but what we are in is a different phase of the pandemic,” he said. “A phase that’s a transition phase, hopefully headed toward more of a control where you can actually get back to some form of normality without total disruption of society, economically, socially, school-wise, etc.”
- Fauci noted that, in fact, Covid-19 cases are trending up again, though it’s not anywhere near the rise we saw over the winter with the Omicron wave. “So what we need to do is continue to be vigilant, to follow the CDC guidelines, to do the kinds of things that protect you: Get vaccinated, if you’re not vaccinated; get boosted if you’re eligible for a boost. If you do get infected, be aware that there is availability of antivirals.”
- “Each of us, in our own personal way, has to make an assessment of what risk you’re willing to accept about getting infected,” Fauci told CNN. “In general, the risk is low, but I made a personal assessment. I’m 81 years old, and if I get infected, I have a much higher risk.”

<https://www.cnn.com/2022/04/27/health/fauci-covid-pandemic-phase/index.html>

## **The 3 pandemic metrics that could tell us what’s next**

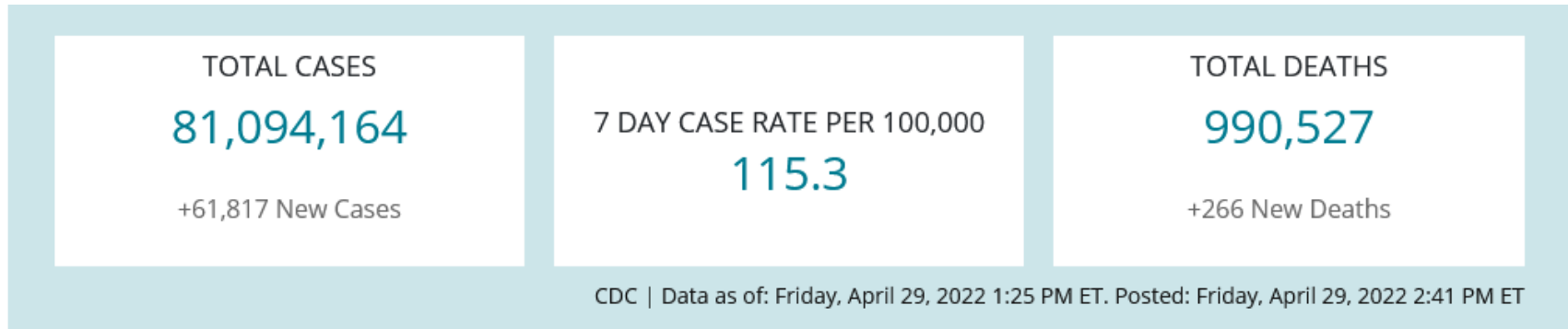
- As the US transitions out of a pandemic footing and into a new normal, it is also undergoing a shift in which Covid-19 metrics most accurately tell the story of the pandemic. The old standbys — case numbers, namely — aren’t as reliable anymore. So what’s going to replace them?
- At least three data sets are now being watched closely by the public health experts. Together, they help shed light on what’s happening now, what’s likely to happen, and how well we’re doing at dealing with what’s already happened over the course of the pandemic. The dozen public health experts contacted for this story were unanimous:
- They will watch hospital data most closely going forward. Some of those experts are still keeping tabs on cases as a general sign of the trends on the ground and because of the potential effect of long Covid to have a lasting effect in even mild cases. The overall number of hospitalizations is a good indicator of how prevalent Covid-19 is in a given community at a given time. But some number of Covid-19 hospitalizations may end up proving incidental, like if a person came to the hospital for a different reason and merely tested positive for the coronavirus as part of routine screening.
- Some experts said they were also looking specifically at the number of ICU patients admitted with Covid-19, more likely to be a real indicator of a severe Covid case, and the number of deaths attributed to the virus. Increases in those numbers would be a sign of something worrisome, either the virus evolving to become more lethal or existing immunity starting to wane.
- New variants are identified through genomic sequencing, though clues about emerging iterations of the virus can also be found in sewage, which is becoming a more integral part of our Covid-19 surveillance network.



# U. S. Data

[https://covid.cdc.gov/covid-data-tracker/#cases\\_casesper100klast7days](https://covid.cdc.gov/covid-data-tracker/#cases_casesper100klast7days)

## United States At a Glance



## COVID-19 Vaccines for People Vaccinated Outside the United States

<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/people-vaccinated-abroad.html>

## Quarantine and Isolation Calculator

<https://www.cdc.gov/coronavirus/2019-ncov/your-health/quarantine-isolation.html>

## Accepted COVID-19 Vaccines

- Vaccines approved or authorized by the U.S. Food and Drug Administration (FDA), which currently include:
  - Johnson & Johnson's Janssen
  - Moderna
  - Pfizer-BioNTech
- Vaccines listed for emergency use by the World Health Organization (WHO), which currently include:
  - Johnson & Johnson's Janssen
  - Moderna
  - Pfizer-BioNTech
  - AstraZeneca
  - Covaxin
  - Covishield
  - BIBP/Sinopharm
  - Sinovac
  - Novavax/Covovax



### Quarantine and Isolation Calculator

A tool to help determine how long you need to isolate, quarantine, or take other steps to prevent spreading COVID-19.

[Get Started](#)



### Quarantine

#### If you were exposed

[Quarantine](#) and stay away from others when you have been in [close contact](#) with someone who has COVID-19.



### Isolate

#### If you are sick or test positive

[Isolate](#) when you are sick or when you have COVID-19, even if you don't have symptoms.

# COVID-19 Community Profile Report 04-28-2022

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

### When to Stay Home

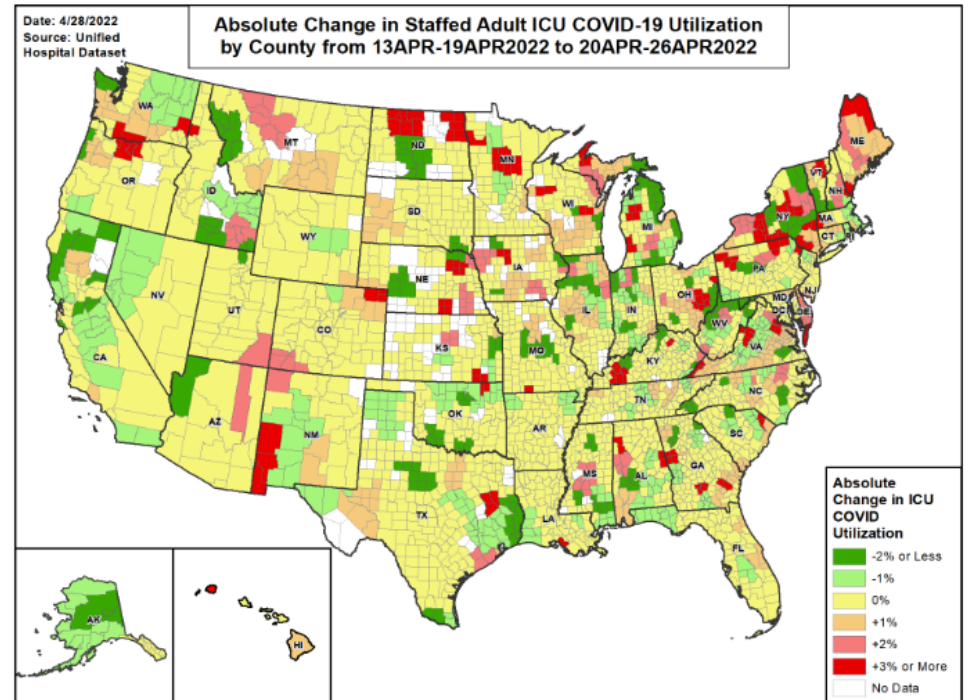
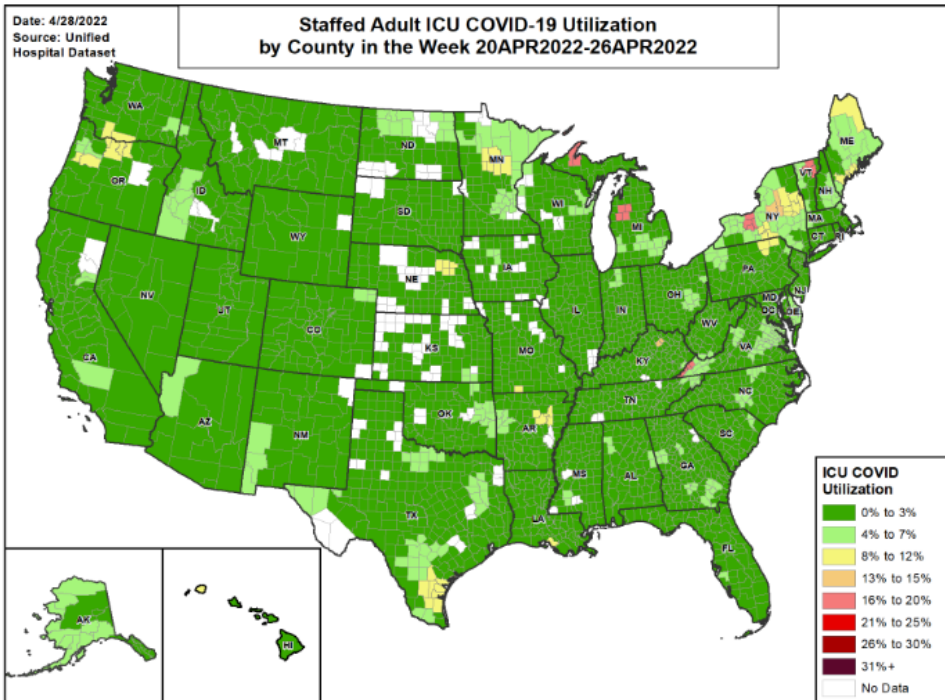
Category	Value	Unit	Color	Legend
IF YOU	Stay at home	Days per week	Blue	Stay at home
WEEK	1.5	Days per week	Blue	Stay at home
COVID-19	1.5	Days per week	Blue	Stay at home
IF YOU	Stay at home	Days per week	Blue	Stay at home
WEEK	1.5	Days per week	Blue	Stay at home
COVID-19	1.5	Days per week	Blue	Stay at home
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COVID-19	1.5	Days per week	Blue	Stay at home
IF YOU	Stay at home	Days per week	Blue	Stay at home
WEEK	1.5	Days per week	Blue	Stay at home
COVID-19	1.5	Days per week	Blue	Stay at home
IF YOU	Stay at home	Days per week	Blue	Stay at home
WEEK	1.5	Days per week	Blue	Stay at home
COVID-19	1.5	Days per week	Blue	Stay at home

# 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:**  
1,466

**Percent Change from Previous 7 Days: +0.6%**



**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. County data is mapped from Health Service Areas, defined as a single county or cluster of counties that are generally self contained with respect to hospital care. See Data Sources/Methods slides for additional details.

**INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE**

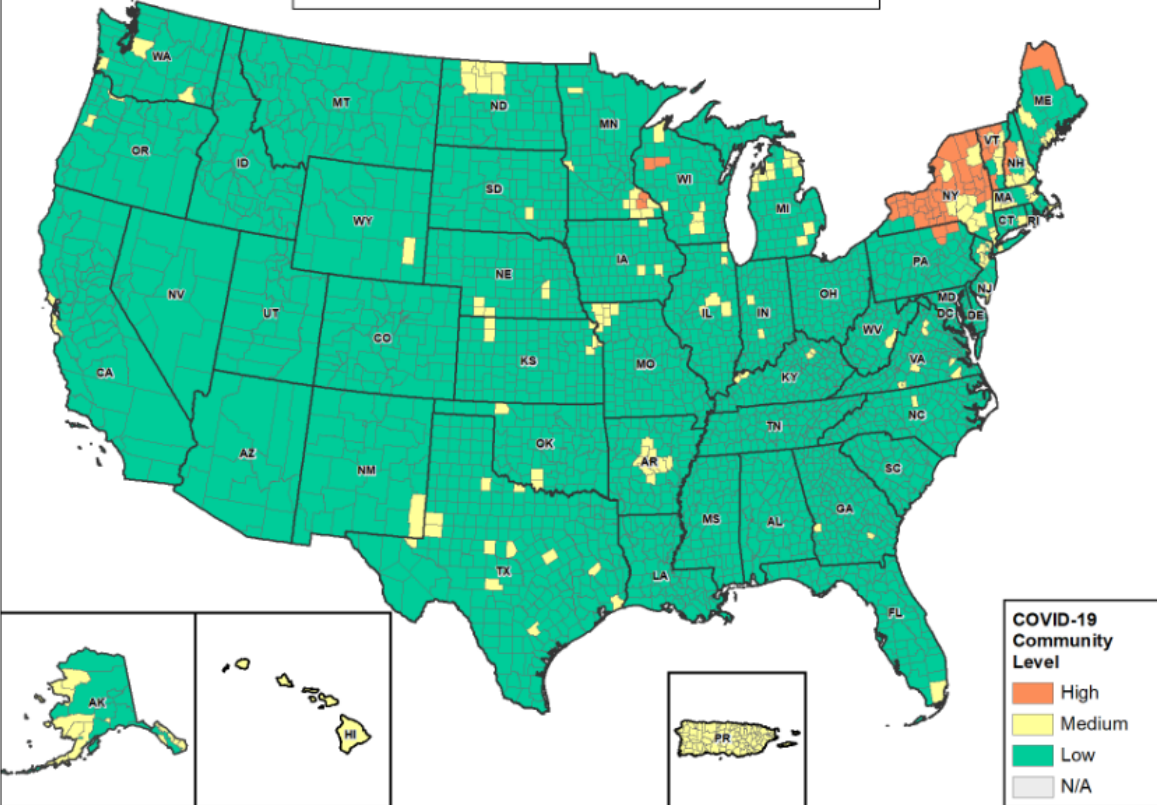




# COVID-19 COMMUNITY LEVEL

Date: 4/28/2022  
 Source: CDC Aggregate County Data and Unified Hospital Dataset

## COVID-19 Community Level by County 04/21/2022-04/27/2022



Source: CDC Aggregate County Dataset (cases), Unified Hospital Dataset (admissions)

Notes: Cases data from April 21-27, 2022, hospital data from April 20-26, 2022. COVID-19 Community Level is determined by the higher of the new admissions and inpatient bed metrics, based on the current level of new cases per 100,000 population in the past 7 days. Admissions per 100k refers to the 7-day total of confirmed COVID-19 hospital admissions. COVID Inpatient Occupancy refers to the percent of staffed inpatient beds occupied by a COVID-19 patient (7-day average). A county is N/A if hospital data is not available. County data is mapped from Health Service Areas, defined as a single county or cluster of counties that are generally self-contained with respect to hospital care. Previous week levels are computed based on current data. See Data Sources/Methods slides for additional details.

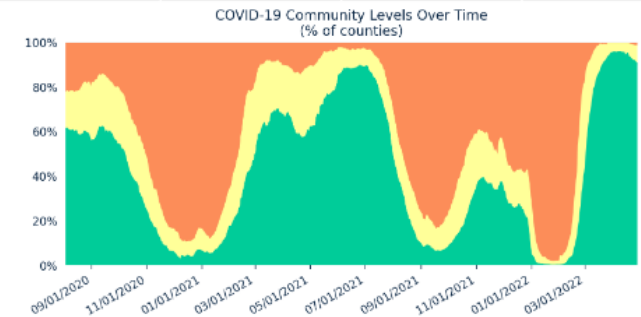
### Counties by COVID-19 Community Level Component Metrics

< 200 Cases per 100k			
Admissions per 100k	< 10.0	10.0 - 19.9	20.0 +
# of counties (change)	2,910 (↓65)	64 (↑16)	4 (↑2)
% of counties (change)	90.4% (↓2.0%)	2.0% (↑0.5%)	0.1% (↑0.1%)
COVID Inpatient Occupancy	< 10.0%	10.0% to 14.9%	15.0% +
# of counties (change)	2,970 (↓43)	2 (↓4)	0 (0)
% of counties (change)	92.2% (↓1.3%)	0.1% (↓0.1%)	0.0% (0.0%)

200 + Cases per 100k			
Admissions per 100k	N/A	< 10.0	10.0 +
# of counties (change)	N/A	192 (↑30)	50 (↑17)
% of counties (change)	N/A	6.0% (↑0.9%)	1.6% (↑0.5%)
COVID Inpatient Occupancy	N/A	< 10.0%	10.0% +
# of counties (change)	N/A	235 (↑41)	7 (↑6)
% of counties (change)	N/A	7.3% (↑1.3%)	0.2% (↑0.2%)

### Counties by COVID-19 Community Level

Category	Low	Medium	High
# of counties (change)	2,910 (↓65)	256 (↑46)	54 (↑19)
% of counties (change)	90.4% (↓2.0%)	8.0% (↑1.4%)	1.7% (↑0.6%)
% of population (change)	87.3% (↓4.8%)	10.8% (↑4.4%)	1.9% (↑0.5%)



INITIAL PUBLIC RELEASE // SUBJECT TO CHANGE



## COVID-19 By the Numbers

Prepared by Justin Czerniak  
 justin.czerniak@norccollege.edu

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

## COVID-19 RESPONSE BY THE NUMBERS

### As of April 25, 2022

Accessible [www.cdc.gov/coronavirus/2019-ncov/cdcresponse/by-the-numbers.html](https://www.cdc.gov/coronavirus/2019-ncov/cdcresponse/by-the-numbers.html)

	<b>10,317</b>	CDC personnel supporting the outbreak response		<b>61.59+ million</b>	Times people have used CDC's online Coronavirus Self-Checker
	<b>1,933</b>	CDC deployers who have conducted <b>4,653</b> deployments to <b>369</b> cities across the United States and abroad		<b>1.7+ million</b>	Calls and emails to CDC-INFO
	<b>440</b>	COVID-19 studies published in CDC's Morbidity and Mortality Weekly Report (MMWR)		<b>4.0+ billion</b>	Times people have looked for information on CDC websites
	<b>10,836</b>	Documents providing information and guidance for government agencies, businesses, and the public		<b>5.0+ billion</b>	Social media impressions on <b>21,266</b> CDC response-related posts
	<b>865+ million</b>	COVID-19 tests conducted by public and private laboratories in the United States		<b>103,706+</b>	Inquiries from doctors, nurses, or other clinical staff and health departments received by CDC
	<b>257+ million</b>	People who have received at least one dose of a COVID-19 vaccine		<b>219+ million</b>	People who have been fully vaccinated with a COVID-19 vaccine

cdc.gov/coronavirus

CS116566-A

## Vaccine Science

<https://www.nigms.nih.gov/education/pathways/Pages/Home.aspx>

These STEM and ELA resources discuss the science behind mRNA vaccines and how researchers were equipped to respond to COVID-19. Also, Vice President Kamala Harris and top scientists share insights about career paths in research. Help students uncover how mRNA vaccines work in the body and how other tools help prevent outbreaks.

[Pathways](#) is a collaboration between NIGMS and Scholastic, Inc., that provides a collection of free educational resources about basic biomedical science and research careers. The *Pathways* resources, designed for grades 6 through 12, include a student magazine, teacher lesson plans, activities, and videos. The student magazine is distributed twice a year to subscribers of Scholastic's *Science World* magazine, reaching nearly 500,000 students in all 50 states. Both the student magazine and teaching guide can be ordered free of charge. Explore and access these resources below.

### Vaccine Science

These STEM and ELA resources discuss the science behind mRNA vaccines and how researchers were equipped to respond to COVID-19. Also, Vice President Kamala Harris and top scientists share insights about career paths in research. Help students uncover how mRNA vaccines work in the body and how other tools help prevent outbreaks.

Pathways Student Magazine [PDF] ↗

Kahoot! Game ↗

Pathways Teaching Guide [PDF] ↗

Order Print Copies

Vocabulary List [PDF] ↗

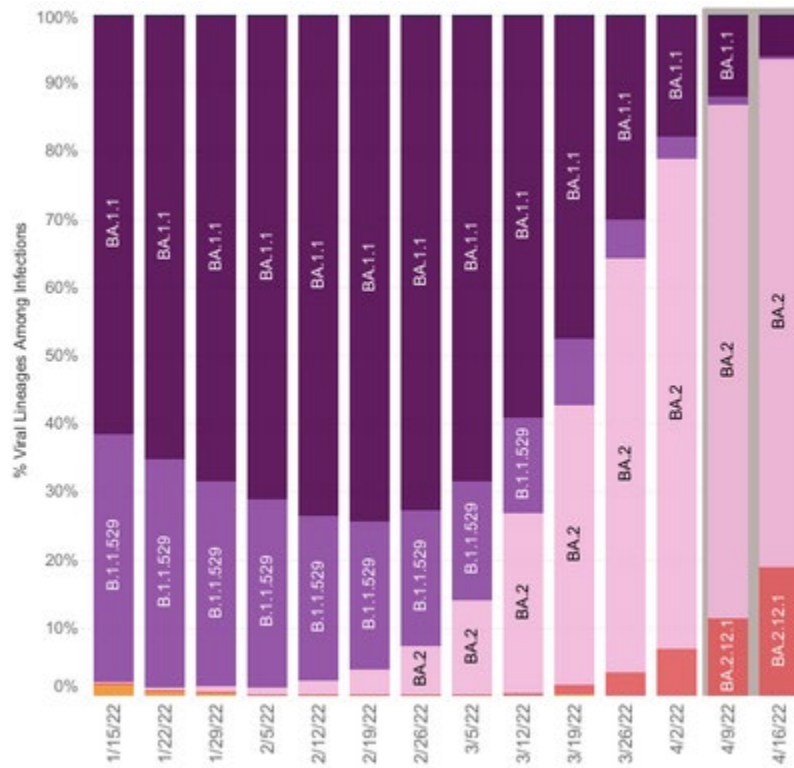
## Unpacking Variants

Prepared by Justin Czerniak  
justin.czerniak@norccollege.edu

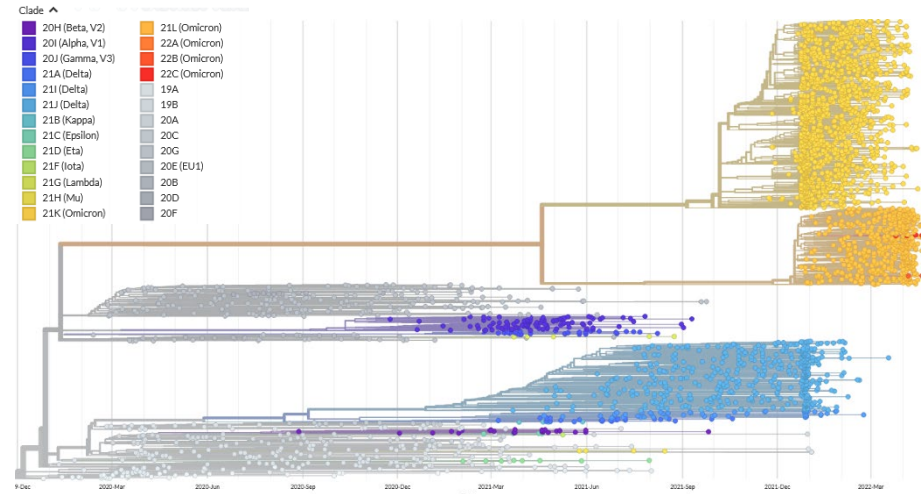
## NextStrain.org

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

<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html>



<https://nextstrain.org/ncov/gisaid/global?d=tree&p=full>



## CDC What's New & Updated

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

- [4/29/22 Cases in the U.S.](#)
- [4/29/22 Overall US COVID-19 Vaccine Distribution and Administration Update as of Fri, 29 Apr 2022 06:00:00 EST](#)
- [4/28/22 Requirement for Proof of COVID-19 Vaccination for Air Passengers](#)
- [4/28/22 COVID-19 Vaccines for Moderately to Severely Immunocompromised People](#)
- [4/28/22 Treatments Your Healthcare Provider Might Recommend for Severe Illness](#)
- [4/28/22 Maintaining Essential Health Services During COVID-19 in Low Resource, Non-U.S. Settings](#)
- [4/28/22 COVID-19 Hospitalization and Death by Race/Ethnicity](#)
- [4/28/22 COVID-19 Hospitalization and Death by Age](#)
- [4/28/22 People with Certain Medical Conditions](#)
- [4/28/22 Clinical Care Guidance for Healthcare Professionals about Coronavirus \(COVID-19\)](#)
- [4/28/22 COVID Data Tracker Weekly Review](#)

## CDC Guidance

Prepared by Justin Czerniak  
justin.czerniak@norccollege.edu

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

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

[Guidance on Prevention and Management of Coronavirus Disease 2019 \(COVID-19\) in Correctional and Detention Facilities](#)  
Framework for correctional facility administrators to manage COVID-19. Date: 4/28/22

[Interim Guidance for SARS-CoV-2 Testing in Homeless Shelters and Encampments](#)

Find guidance and considerations for SARS-CoV-2 testing in homeless encampments and homeless shelters, including the types of tests to consider. Date: 4/5/22

[Testing Strategies for SARS-CoV-2](#)

Explore SARS-CoV-2 testing strategies, including their intended use and applications, regulatory requirements, and reporting requirements. Date: 4/3/22

[Guidance for Antigen Testing for SARS-CoV-2 for Healthcare Providers Testing Individuals in the Community](#)

Find detailed information about COVID-19 antigen diagnostic testing, including antigen test performance, evaluating results, and a summary table. Date: 4/3/22

## Science and Research

<https://www.cdc.gov/coronavirus/2019-ncov/science/science-and-research.html>

### Journals and Studies



[Morbidity and Mortality Weekly Report](#)  
[Results from COVID-19 outbreak investigations](#)



[Preventing Chronic Disease](#)  
[Articles on COVID-19 and chronic disease](#)



[Emerging Infectious Diseases](#)  
[Studies of COVID-19 since the beginning of the pandemic](#)



## State Data

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

Prepared by Justin Czerniak  
justin.czerniak@norccollege.edu



Office of Governor  
GAVIN NEWSOM

Situation Reports Archive

<https://www.norccollege.edu/sep/Pages/reports.aspx>

Press Releases, Executive Orders,  
Media Advisories, and Proclamations

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

The SMARTER Plan is the next phase of California's COVID-19 response

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

## Tracking COVID-19

<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>

## California Healthy Places Index

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

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

## CDPH Statewide Guidance

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

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

## CDPH Office of Communications

<https://www.cdph.ca.gov/Programs/OPA/Pages/News-Releases-2022.aspx>

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

## Data models

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

## Cal/OSHA

<https://www.dir.ca.gov/dosh/>

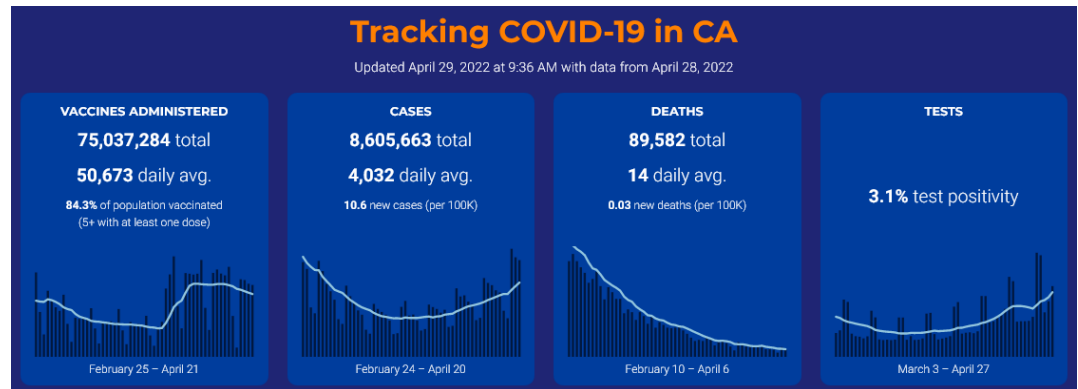
<https://www.dir.ca.gov/dosh/COVID19citations.html>

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

## Vaccines

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

<https://mytum.ca.gov/>



## California Becomes First State to Launch Chatbot to Combat COVID-19 Misinformation, Especially Focused on the Spanish-Speaking Community

April 21, 2022 - The California Department of Public Health (CDPH) today unveiled new Spanish- and English-language WhatsApp chatbot tools to offer reliable information about COVID-19 to Californians, especially those in the Latino community.



## Riverside County Data

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

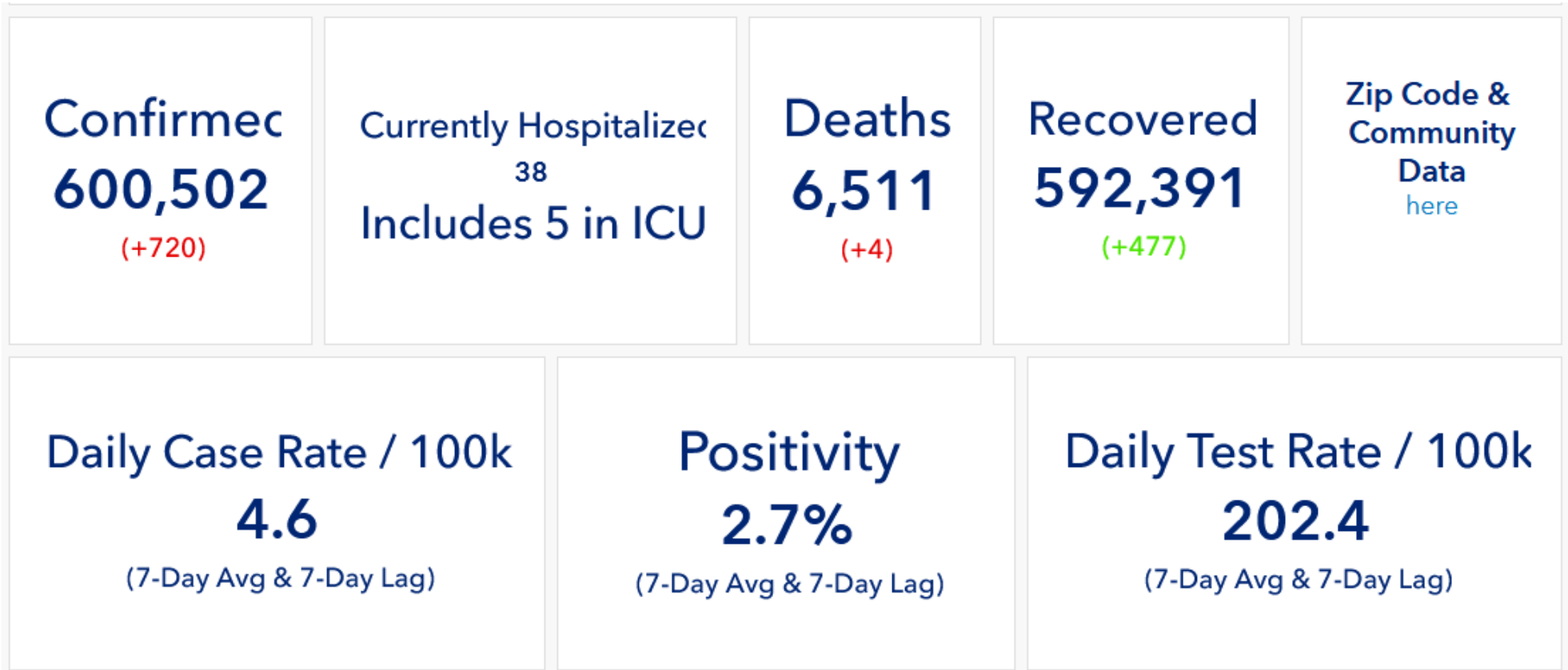
Prepared by Justin Czerniak

[justin.czerniak@norccollege.edu](mailto:justin.czerniak@norccollege.edu)

Situation Reports Archive

<https://www.norccollege.edu/sep/Pages/reports.aspx>

Starting the week of April 4, 2022, COVID-19 Data will be updated on **Tuesdays** and **Fridays** to remain consistent with California Department of Public Health reporting procedures.



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

### RIVERSIDE COUNTY DAILY COVID-19 REPORT

<https://www.rivcoph.org/Portals/0/Documents/CoronaVirus/Reports/DailyEpidemiologySummary.pdf?x=1651265753357>

# RIVERSIDE COUNTY COVID-19 CASES



Apr 29, 2022 -

**TOTAL CASES**  
600,655

**NEW REPORTED CASES**  
153

**TOTAL DEATHS**  
6,512

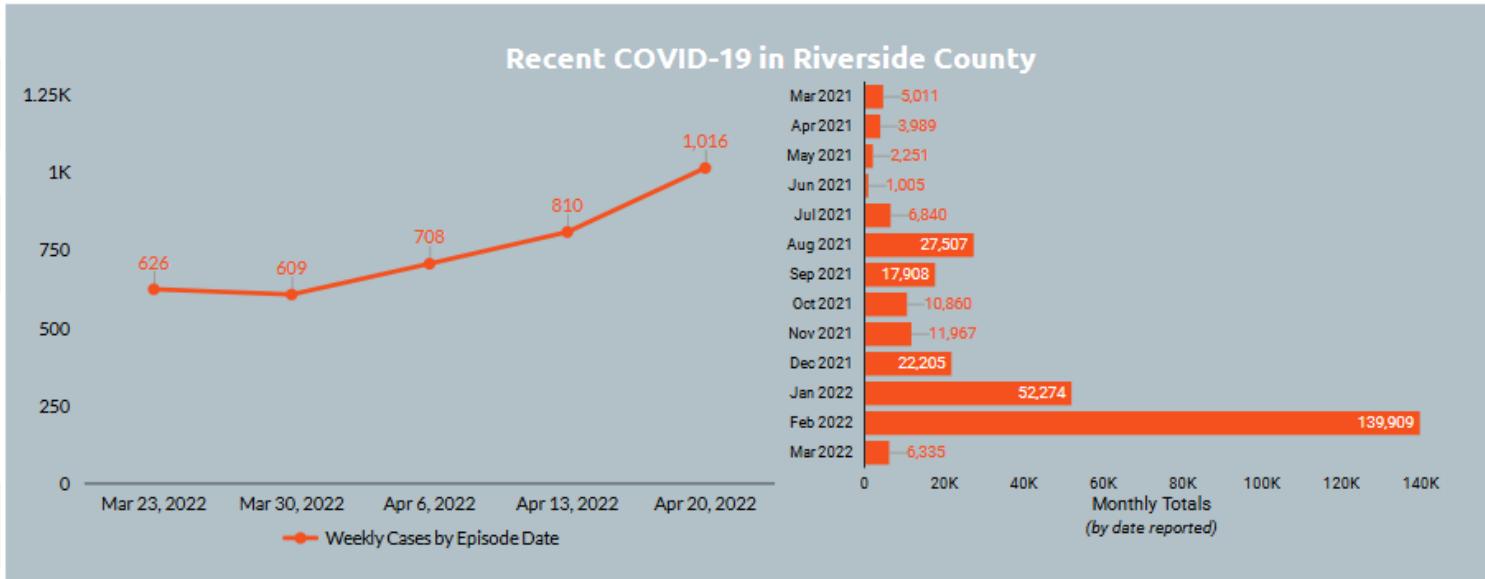
**NEW DEATHS**  
1

**TOTAL RECOVERED**  
592,709

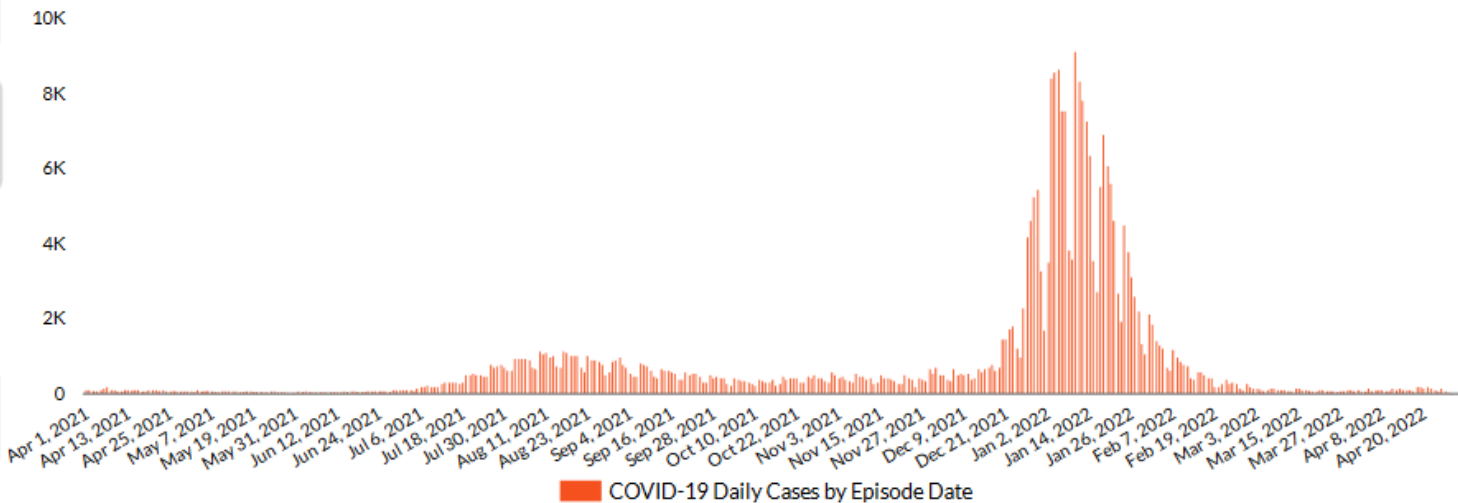
**PROBABLE CASES\***  
28,618

**CURRENT HOSPITALIZED**  
(includes ICU)  
44

**CURRENT ICU**  
7



## COVID-19 Cases in Riverside County



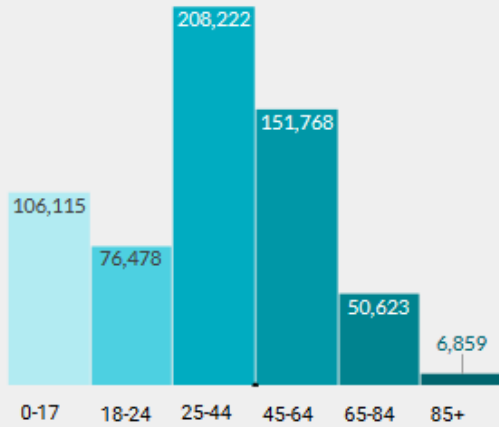
\*Probable cases refer to Antigen positive not PCR confirmed

# RIVERSIDE COUNTY COVID-19 TOTAL CASE & DEATH DEMOGRAPHICS (COUNTS)

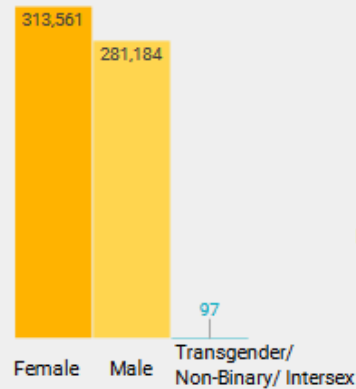


## COVID-19 TOTAL CASE COUNT

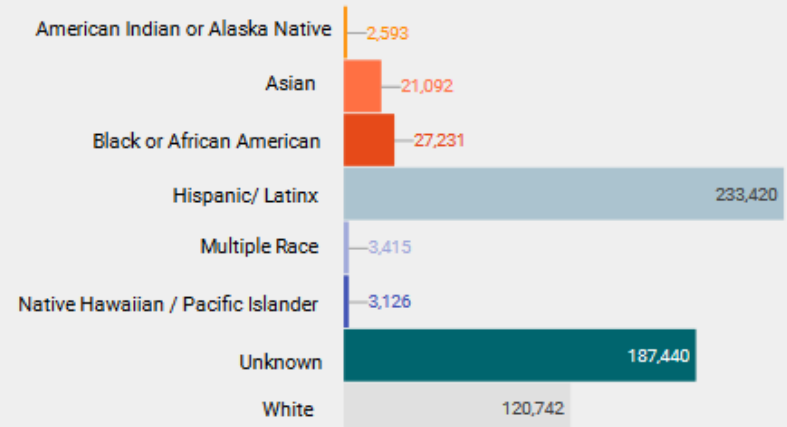
COVID-19 Cases by Age Group



COVID-19 Cases by Sex

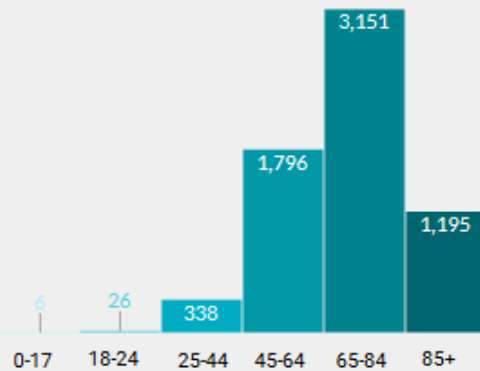


COVID-19 Cases by Race/Ethnicity

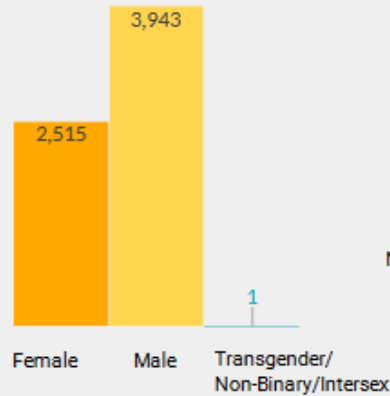


## COVID-19 TOTAL DEATH COUNT

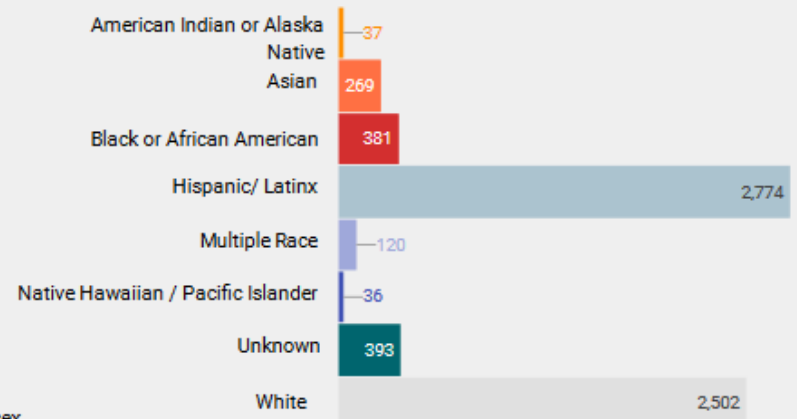
COVID-19 Deaths by Age Group



COVID-19 Deaths by Sex



COVID-19 Deaths by Race/Ethnicity



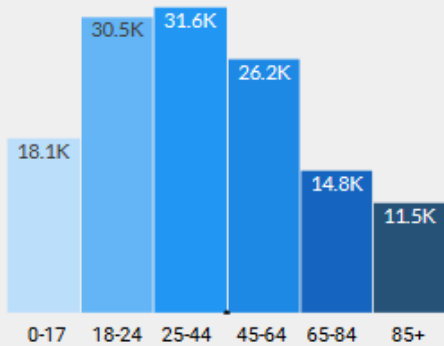


# COVID-19 CASE RATE DEMOGRAPHICS CALIFORNIA AND RIVERSIDE COUNTY

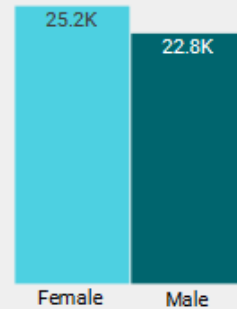


## RIVERSIDE COUNTY

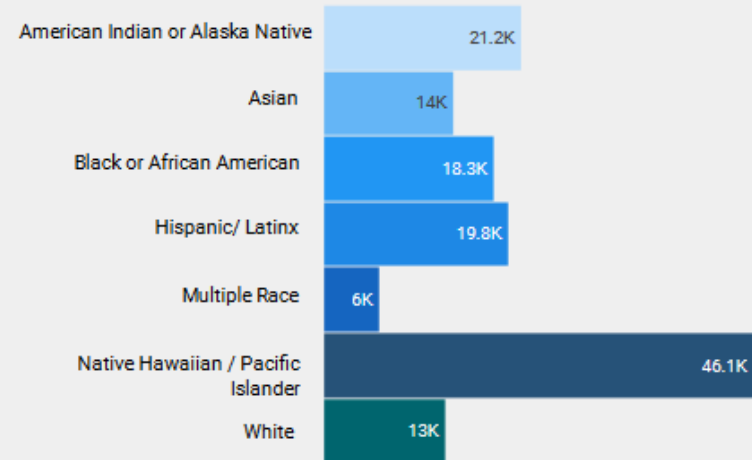
COVID-19 Riverside County Case Rates (per 100,000) by Age Group - Riverside County



COVID-19 Riverside County Case Rates (per 100,000) by Sex

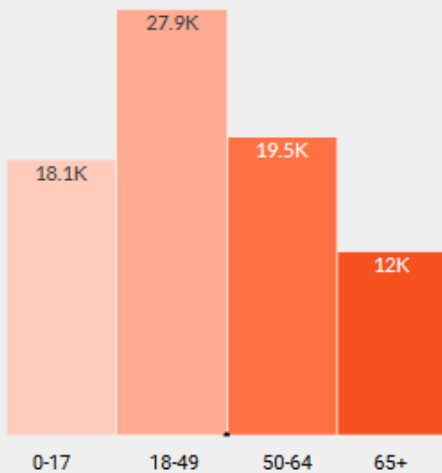


COVID-19 Riverside County Case Rates (per 100,000) by Race/Ethnicity

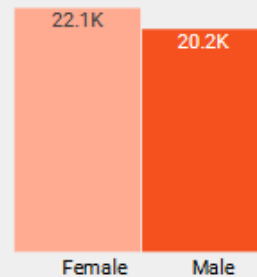


## CALIFORNIA

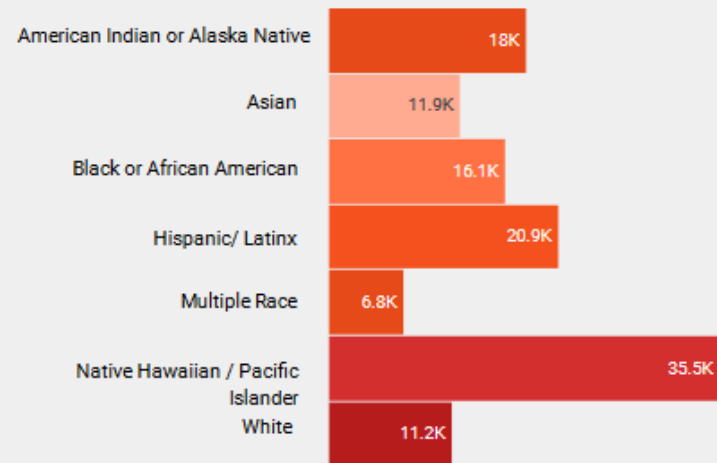
COVID-19 California Case Rates (per 100,000) by Age Group



COVID-19 California Case Rates (per 100,000) by Sex



COVID-19 California Case Rates (per 100,000) by Race/Ethnicity



\* California data lags one day behind

## Gusty West Winds Mountains & Deserts this Weekend, Warm in the Deserts through Next Week

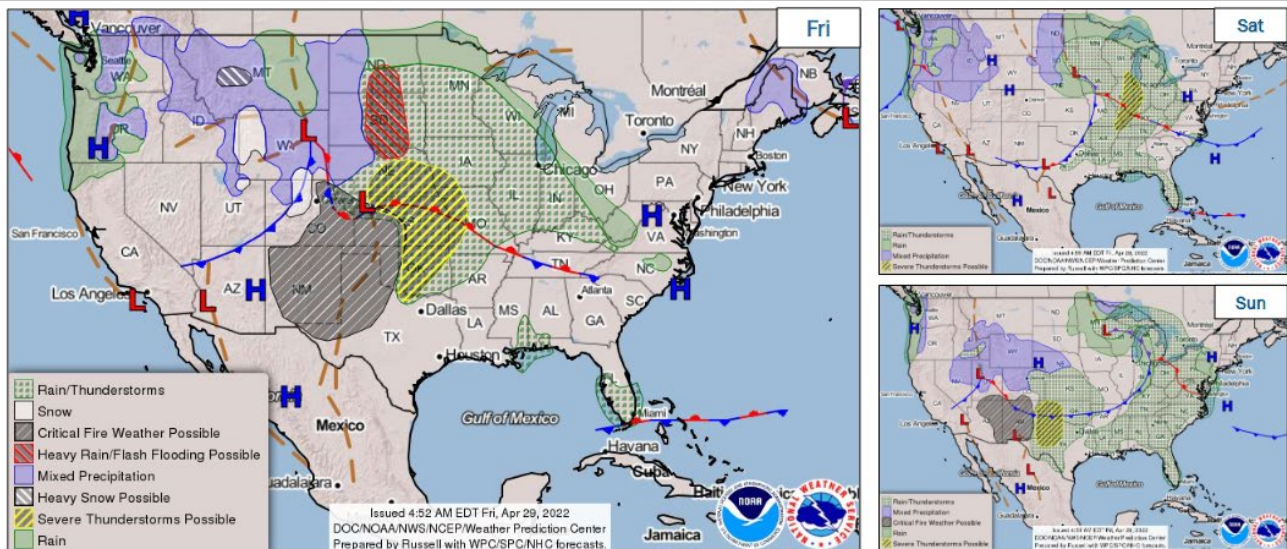
### KEY POINTS

- Gusty west winds over the mountains and deserts expected on Saturday and Sunday.
- Above average temperatures expected in the lower deserts through next week.

### WEATHER RISK OUTLOOK

Risk levels incorporate potential impacts from weather hazards and likelihood of occurrence for a reasonable worst case scenario.

# National Weather Forecast



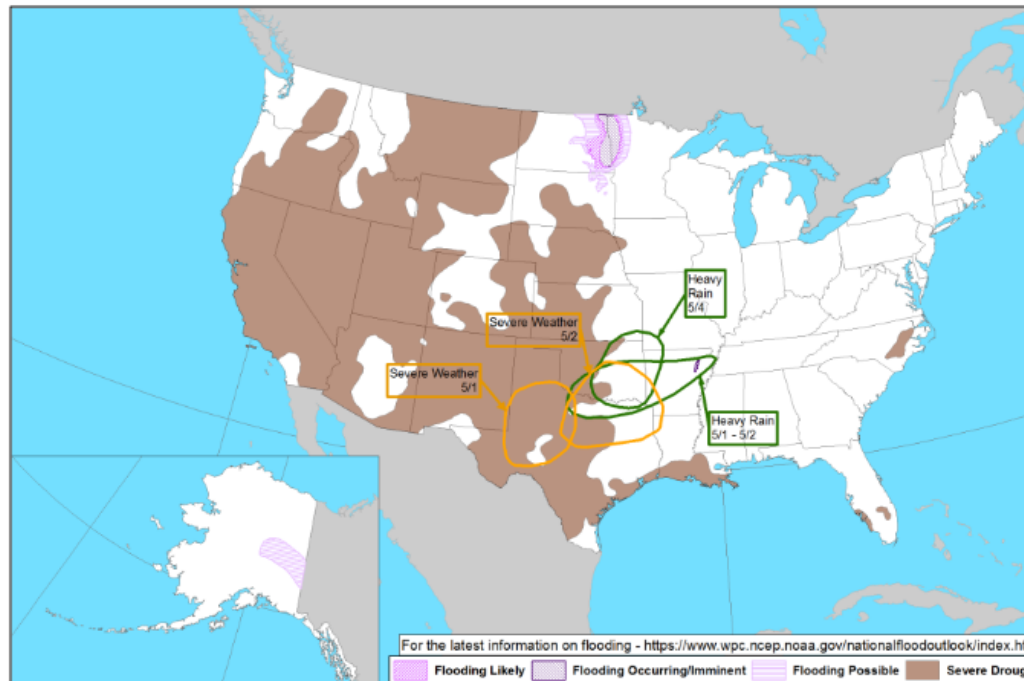
National Watch Center

	Fri 4/29	Sat 4/30	Sun 5/1	Mon 5/2	Tue 5/3	Wed 5/4	Thu 5/5
<b>San Diego Marine</b>							
<b>Orange/San Diego Beaches</b>							
<b>San Diego Coast</b> San Diego, Oceanside							
<b>San Diego Valleys</b> Alpine, Escondido, Ramona							
<b>San Diego County Mtns</b> Mt Laguna, Julian, Palomar Mt		Wind	Wind				Wind
<b>San Diego Deserts</b> Anza Borrego, Ocotillo Wells	Heat	Heat Wind	Heat Wind	Heat	Heat	Heat	Heat Wind
<b>Orange County Coast</b> Laguna and Huntington Beaches							
<b>Orange County Inland</b> Anaheim, Irvine							
<b>Santa Ana Mountains</b> Silverado, Santiago Peak							
<b>Inland Empire</b> Ontario, Riverside							
<b>Riverside County Mtns</b> Mt San Jacinto, Idyllwild		Wind	Wind				Wind
<b>Coachella Valley</b> Palm Springs, Indio	Heat	Wind Heat	Wind Heat	Heat	Heat	Heat	Wind Heat
<b>San Bernardino Mtns</b> Wrightwood, Big Bear		Wind	Wind				Wind
<b>High Deserts</b> Victorville, Lucerne Valley							

**Risk Levels**



# Hazards Outlook – May 1-5

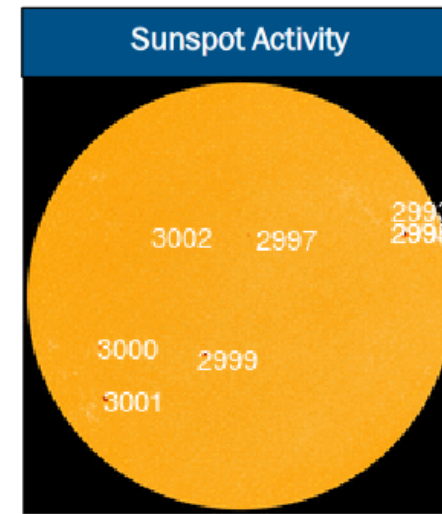
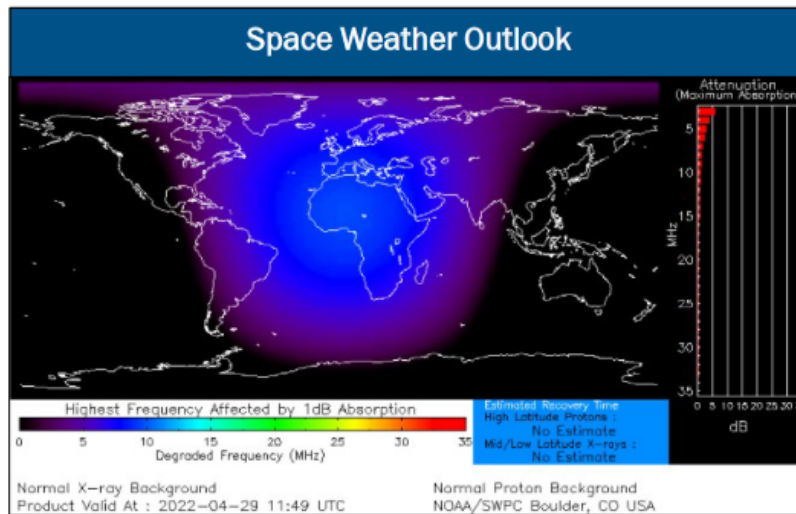


National Watch Center

# Space Weather Outlook

	Space Weather Activity	Geomagnetic Storms	Solar Radiation	Radio Blackouts
Past 24 Hours	Minor	None	None	R1
Next 24 Hours	Minor	G1	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