# **COVID** Data Tracker

Maps, charts, a	COVID-19 Home >								
United States Trend in % Test		Positivity	Trend in % Emergency	Trend in Hospital Admissions	Trend in % COVID-19 Deaths				
At a Glance	-0.6% in most rece	nt week	Department Visits -5.3% in most recent week	+0.8% in most recent week	-6.9% in most recent week				
				Total Hospitalizations 6,816,249	Total Deaths 1,178,527				
Data Tracke	er Home		Variants & Genomic Surveill nt Proportion						
Trends		Monitoring Variant Proportions							
Maps		SARS-CoV accumulat SARS-CoV	On This Page <u>Monitoring</u> <u>Variant</u>						
Hospitalizations		6	nd disappear, while others w d may replace previous vari	Proportions Nowcast					
Deaths		To identify <u>surveillan</u> CoV-2 spe	<u>More About</u> <u>Variants</u>						
Emergency Department Visits		generated	veillance (NS3) program, as l by commercial or academi	<u>About These</u> <u>Data</u>					
Vaccination Coverage	Distribution &	and state or local public health laboratories. Virus genetic sequences are analyzed and classified as a particular lineage. The proportions of SARS-CoV-2 variants in a population are calculated nationally, by HHS region, and by jurisdiction. The sequences analyzed through CDC's							
Vaccine Effectiveness		national genomic sequencing and bioinformatics efforts fuel the comprehensive and population-based U.S. surveillance system established to identify and monitor the spread of variants.							
Variants & Genomic Surveillance		Rapid viru are furthe							
	Traveler-Based Genomic Surveillance		and vaccines authorized or approved for use in the United States will work against emerging variants.						
Wastewater	Wastewater Surveillance		Types of Variant Proportion Data						
Post-COVID Conditions		CDC provi These pro Nowcast e							
Health Equity		most rece	estimates (provided for al nt two, two-week periods) a empirical (observed) genom						
Pediatric		estimates because o sample co							
Pregnancy		into public							
Seroprevalence		Lineages v variants a estimate o the spike	٦						
Other COVI	D-19 Data	severity, it its own in							
Communica	<b>Communications Resources</b>		<b>estimates</b> (provided for the hen the "Nowcast on" optio						
COVID-19 H	lome	based projections of variant proportions for the most recent two-week periods to enable timely public health action. CDC uses the Nowcast to forecast variant proportions before the weighted estimates are available for a given two-week period.							



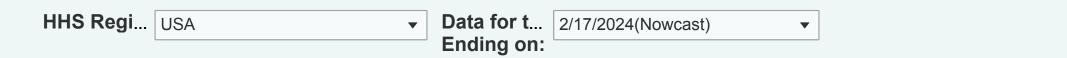
କ୍ଥ

**Projections for an emerging lineage with a high growth** 

rate may have a higher degree of uncertainty (wider predictive interval) when it is just beginning to spread and still has low weighted estimates. Projections may also be biased during times of delayed reporting (e.g., around holidays). CDC performs frequent evaluations of Nowcast to inform performance improvements.

Nowcast estimates for a parent lineage include projected changes in its child lineages until a child lineage's weighted estimate crosses the 1% threshold. Once the weighted estimate crosses the 1% threshold for the two-week period with sequences available, the initial Nowcast projections for the child lineage proportion for the two recent twoweek periods may be substantially higher than 1%.

CDC provides updated variant proportions for weighted estimates and Nowcast estimates every other week on Friday.

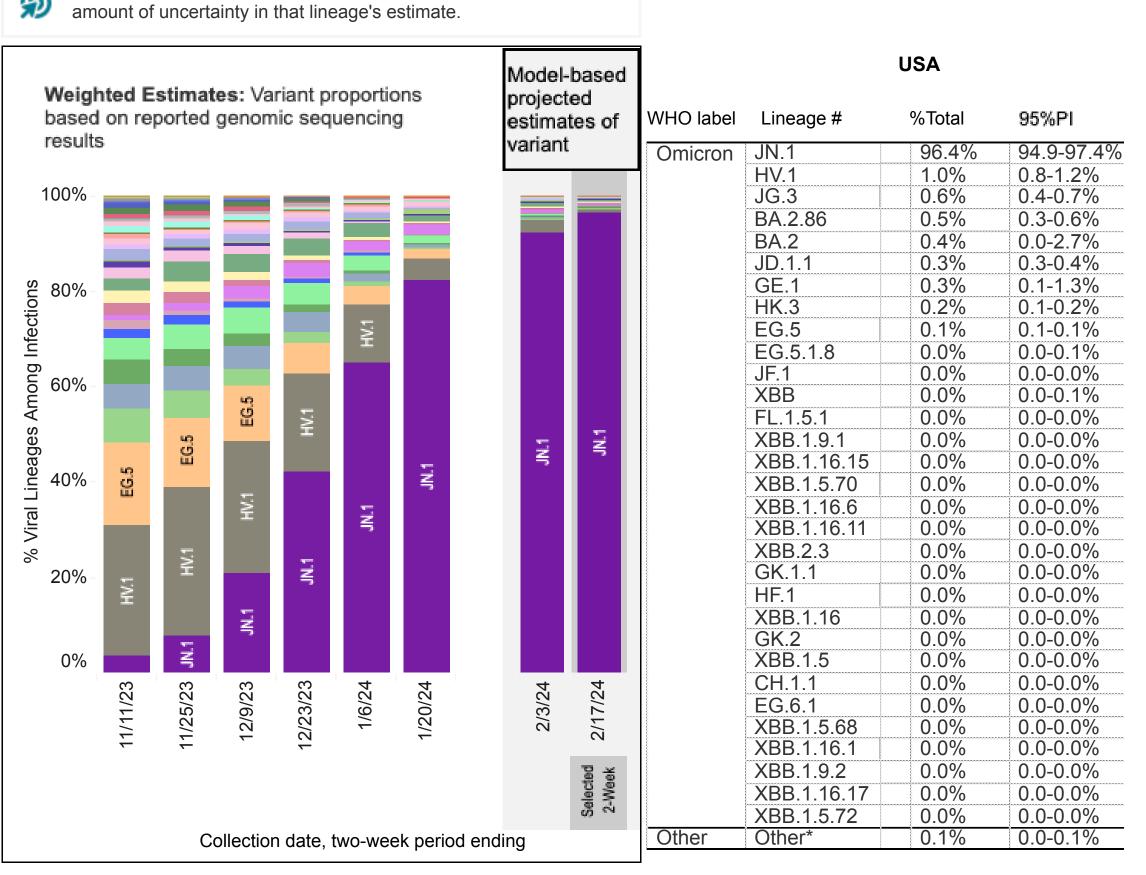


This shows weighted and Nowcast estimates for the United States. The table and map show estimates for the 2-week perio ending on 2/17/2024(Nowcast) if available.



Hover over (or tap in mobile) any lineage of interest to see the

Nowcast Estimates in United State for 2/4/2024 - 2/17/2024



Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one 2-week period. "Other" represents the aggregation of lineages which are circ nationally during all 2-week periods displayed. # While all lineages are tracked by CDC, those named lineages not enumerated in this graphic are aggregated with their parent lineages, based on Pango lineage definitions, more detail here: https://www.pango.network/the-pango-nomenclature-system/statement-of-nomenclature-rules/.





View on Tableau Public

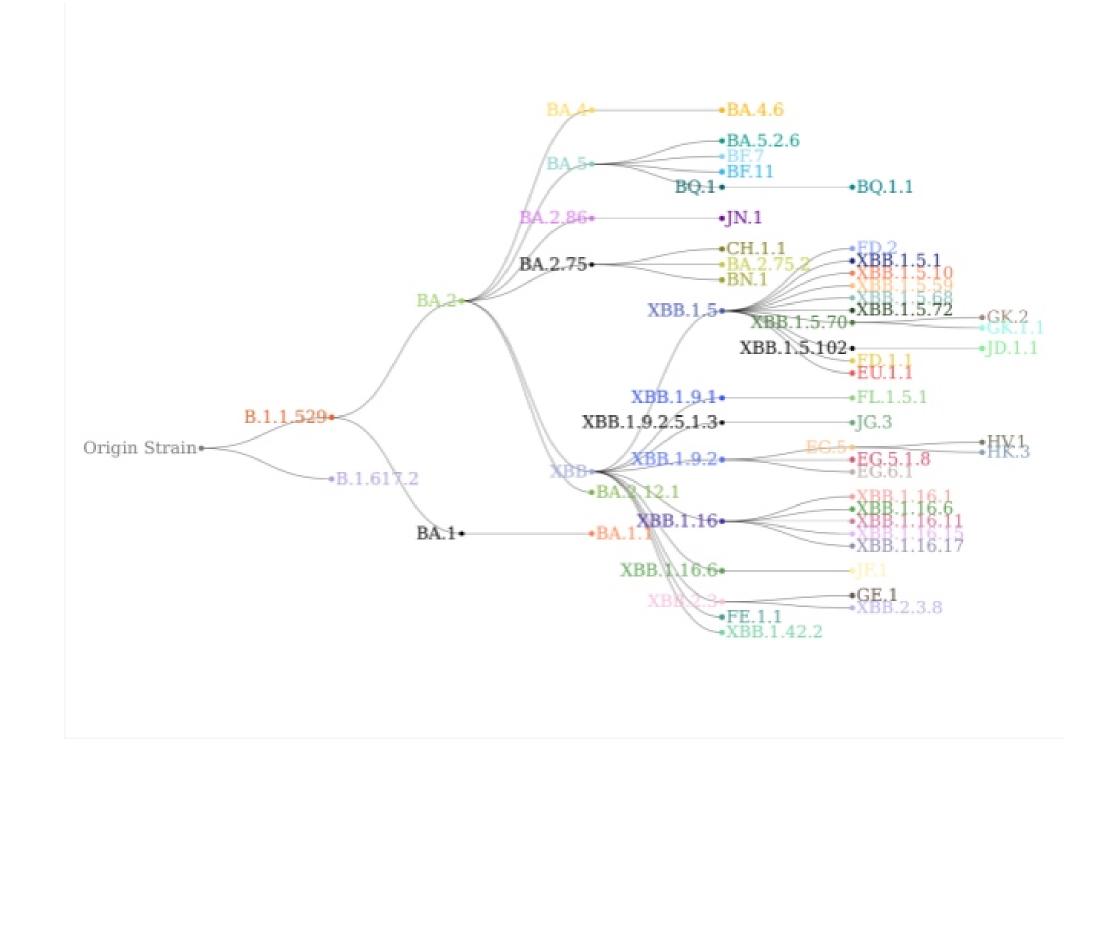
### Download Data 🚣

The diagram below shows how the <u>Pango lineages</u> on COVID Data Tracker are related to each other. For a full list of the current Pango lineages see

လို S

https://cov-lineages.org/lineage\_list.html.

CDC monitors SARS CoV-2 viruses from every lineage, but COVID Data Tracker only includes the lineages whose weighted estimates are above 1%. Some lineages have key differences in spike protein sequence that may reduce the effectiveness of some treatments or increase the virus's ability to spread. These lineages may be separated from their parent lineage on COVID Data Tracker when their biweekly proportion reaches more than 1%.



+‡‡+ View on Tableau Public	$\mathbf{r}$	$\subset$	$\mathbf{b}$		↓ ▼		$\propto^{o}_{o}$ Share
-----------------------------	--------------	-----------	--------------	--	-----	--	-------------------------

## More About Variants

- What You Need to Know about Variants
- <u>Genomic Surveillance for SARS-CoV-2 Variants</u>
- <u>SARS-CoV-2 Variant Classifications and Definitions</u>
- <u>CDC's Role in Tracking Variants</u>
- Published SARS-CoV-2 Sequences
- Science Brief: Emerging SARS-CoV-2 Variants

## About These Data

## All Variants in the United States

**Instructions**: Data in the chart and table show the estimated variant proportions for the most common variants and timeframe. The U.S. map shows the estimated biweekly proportions of the most common SARS-CoV-2 variants circulating in the United States, divided by HHS regions. Data can be filtered by timeframe (two-week periods), and national or HHS region from the drop-down controls on the top. If a specific timeframe is selected in the chart, the data will change in the table and map to reflect the selected timeframe. If a specific region is selected in the U.S. map, the data will change in the table and map to reflect the selected region. For example, if Region 4 is selected, data will reflect estimates based on reported results from MS, GA, AL, TN, KY, NC, SC, and FL. Data for a specific variant can be highlighted in all figures by selecting it in the "Highlight Variant" box in the left bottom corner of U.S. map, or in the chart, table or pie chart in the U.S. map. To see the proportions and their confidence intervals/prediction intervals for all the common variants in the specific timeframe, hover pointer over a bar (timeframe) in the chart. To see the change of the proportion of a variant in different timeframes in a specific region, hover pointer to that variant in the specific region in U.S. map (a table showing proportions of other variants will also show up).

**Nowcasting:** The default setting for the chart, table, and U.S. map is to display <u>CDC's</u> Nowcast estimates. Because it can take 2-3 weeks from the time a specimen is collected to when its sequence data is available for analysis, Nowcast is an important tool that can estimate variant proportions for more recent time intervals. Nowcast does not predict future spread of the virus, but it does help estimate current prevalence of variants, based on genomic surveillance data from previous weeks. Estimates of variant proportions for previous two-week period may change as more data are reported. Nowcast estimates consistently align with the weighted proportions based on reported sequencing data, which are published 2-3 weeks later.

## Weighted Proportions

To provide more representative national, regional, and jurisdiction-level estimates of variant proportions, calculations are included to account for sampling of data over time and across or within states. For example, sequences generated from outbreak investigations are often from a very narrow geographical region (such as a school) and may skew proportions within its larger jurisdiction. Using a survey-design-based approach, CDC uses statistical weights for these estimates that are based on the total number of reverse transcription polymerase chain reaction (RT-PCR) tests and number of SARS-CoV-2-positive RT-PCR test results received, stratified by state, specimen collection date, and by genomic surveillance data source. Variant proportions are estimated based on <u>genomic sequences</u> obtained through CDC (NS3 and CDC-funded sequencing contracts) and tagged baseline surveillance sequencing submitted to public repositories by state, local, academic, or commercial laboratories. Sequences used in this analysis are intended to be a representative sample of all cases during the selected timeframe and location. They may not match cases reported by states, territorial, tribal, and local officials. Estimates of weighted variant proportions are subject to change, as sequence data from specimens previously collected continues to increase over time.

The variant data reported for the jurisdiction-level estimates are limited to those designated as a variant of concern (VOC), variant of interest (VOI), or variant being monitored (VBM) by the U.S. government SARS-CoV-2 Interagency Group (SIG). Differences in the number of SARS-CoV-2 positive RT-PCR tests, sources of sequence data, and number of sequences available during a period affects the degree of certainty in the weighted proportion estimates. Confidence intervals are provided to describe these uncertainties. These data will be updated every other week on Friday.

### Why do we use genomic surveillance to monitor SARS-CoV-2 variants?

Visit the Genomic Surveillance for SARS-CoV-2 Variants page to learn more

## How is CDC using genomic sequencing to track SARS-CoV-2 variants?

Visit <u>CDC's Role in Tracking Variants</u> page to learn more

## Want to know more about variants of the virus that causes COVID-19?

Visit the About Variants of the Virus that Causes COVID-19 page to learn more

### What SARS-CoV-2 variants are being monitored?

Visit the SARS-CoV-2 Variant Classifications and Definitions page to learn more about variant attributes and their classifications.

#### **Cite COVID Data Tracker**

Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2024, February 19. https://covid.cdc.gov/covid-data-tracker

**CDC INFORMATION** 

#### COVID-19 Home >

All COVID-19 topics including prevention, travel, work, and school

#### **HAVE QUESTIONS?**

Visit CDC-INFO Call 800-232-4636

Email CDC-INFO

### **L** Open 24/7

Jobs Funding Policies File Viewers & Players

About CDC

#### Privacy FOIA No Fear Act OIG Nondiscrimination Accessibility

**CONNECT WITH CDC** 

