

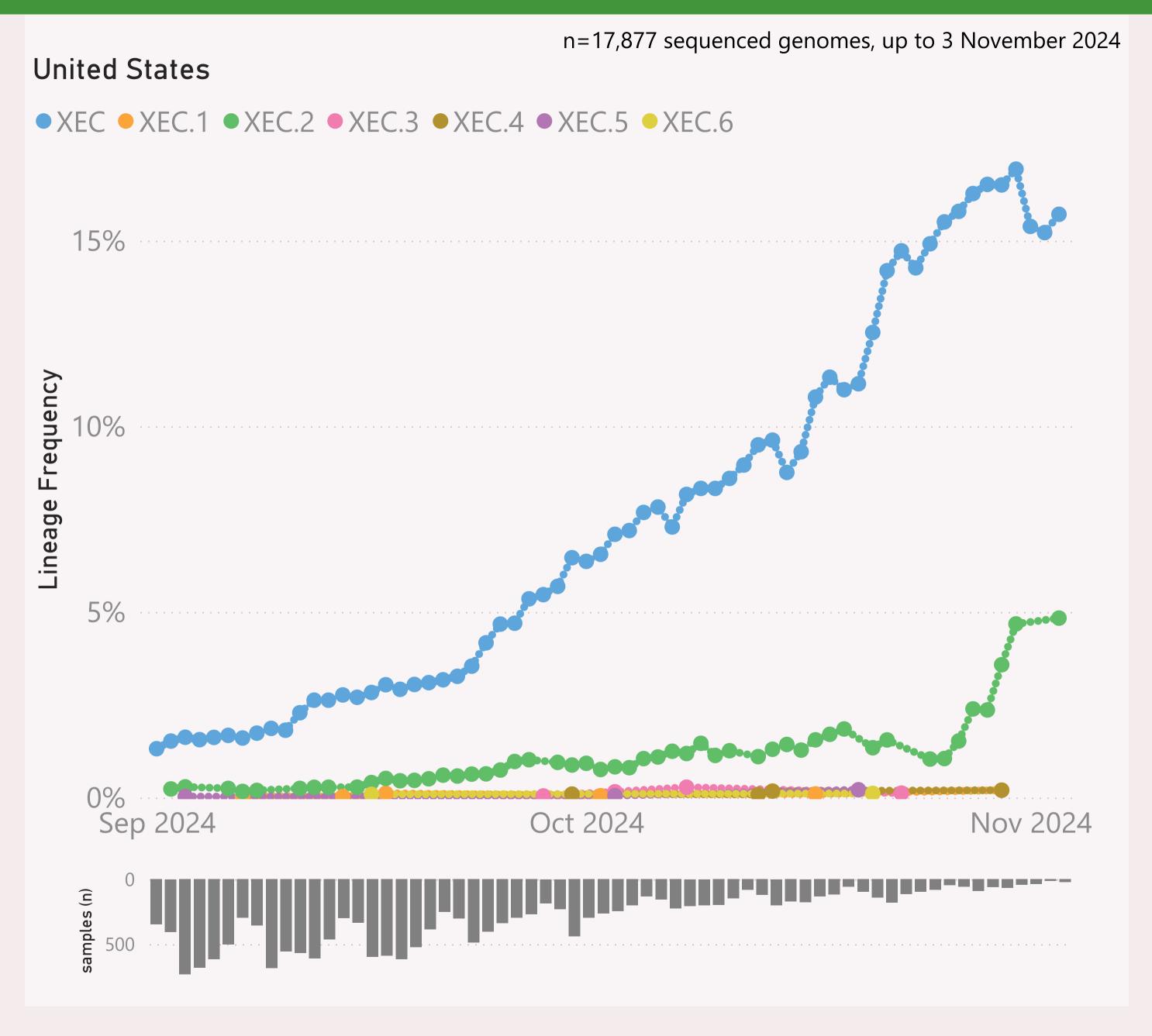
This page shows the frequency of the top 7 "L2" lineages, across recent months.

The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "BA.2.86.*" group includes BA.2.86 and all it's descendants, e.g. the JN.* lineages.

The detailed Lineage classifications are quite numerous and dynamic, so the "Lineage L2" groups give a simpler and more stable basis for analysis and comparison.

The frequency shown at each point is based on the 7-day rolling average across all lineages.

The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

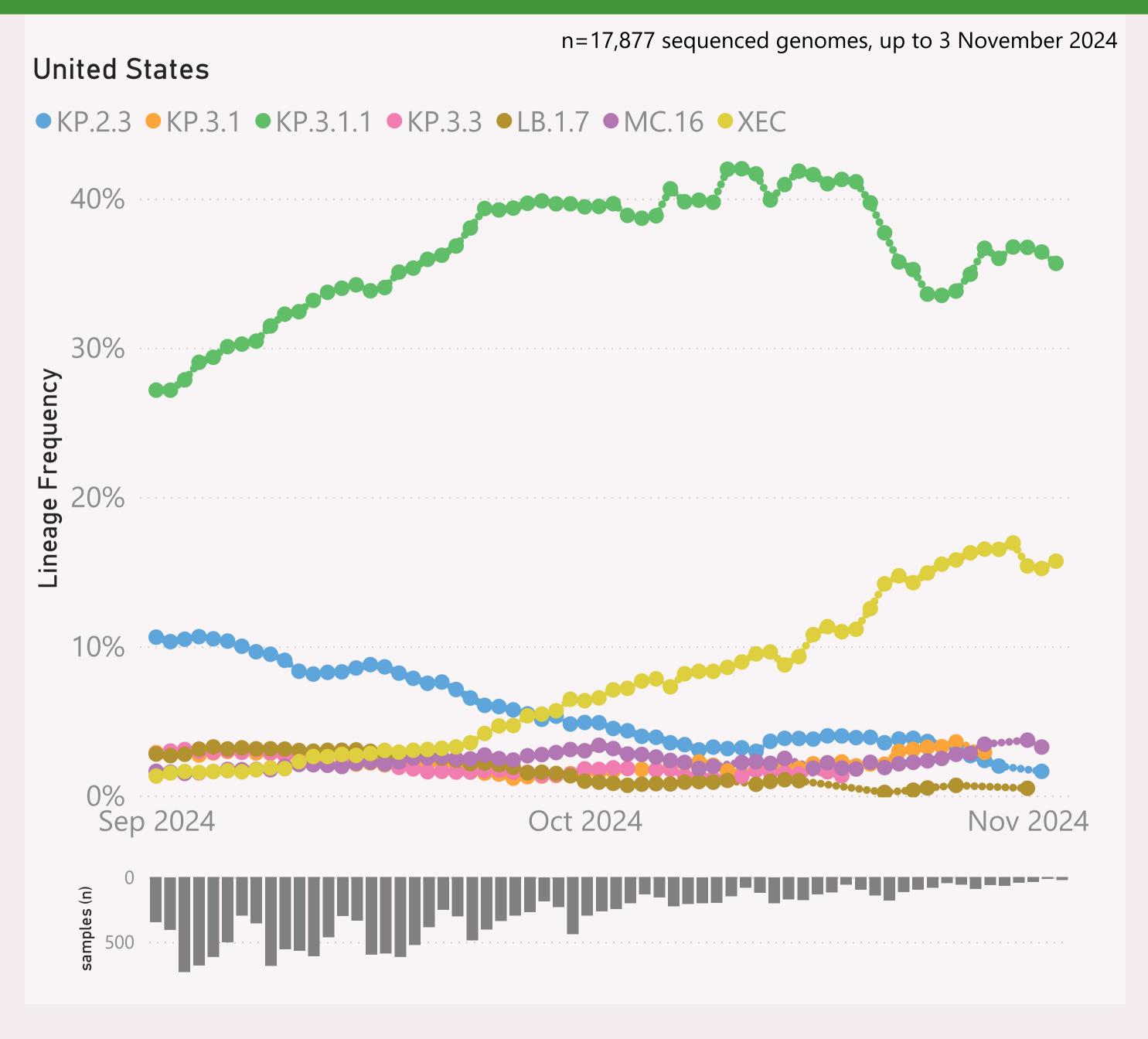


This page shows the frequency of the top 7 lineages, across recent months. The lineages are filtered for a "Lineage L2" group of interest, currently "XEC.*.

The Lineage classifications are provided by Nextclade. The colour assignments are random.

The frequency shown at each point is based on the 7-day rolling average across all lineages.

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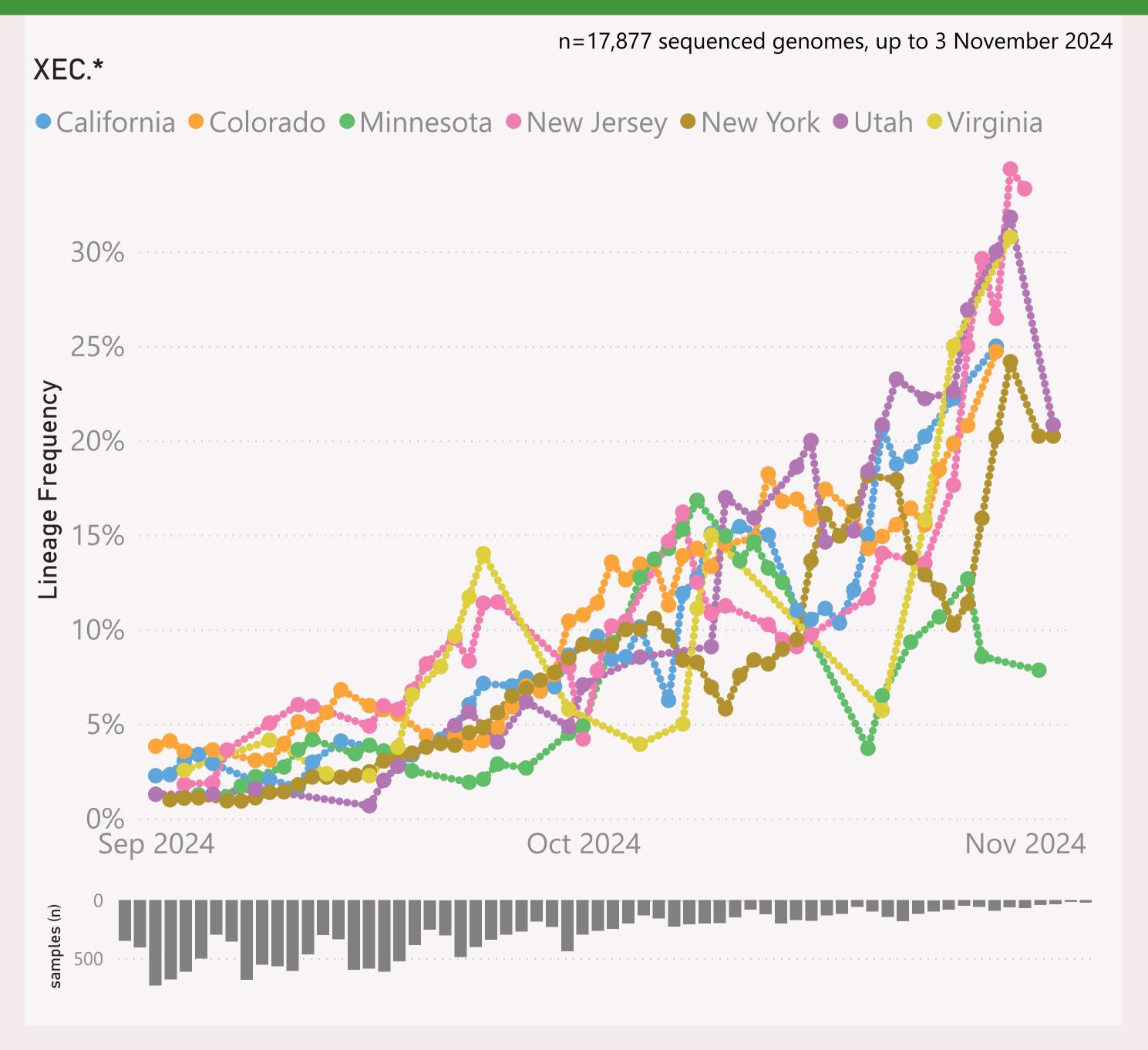


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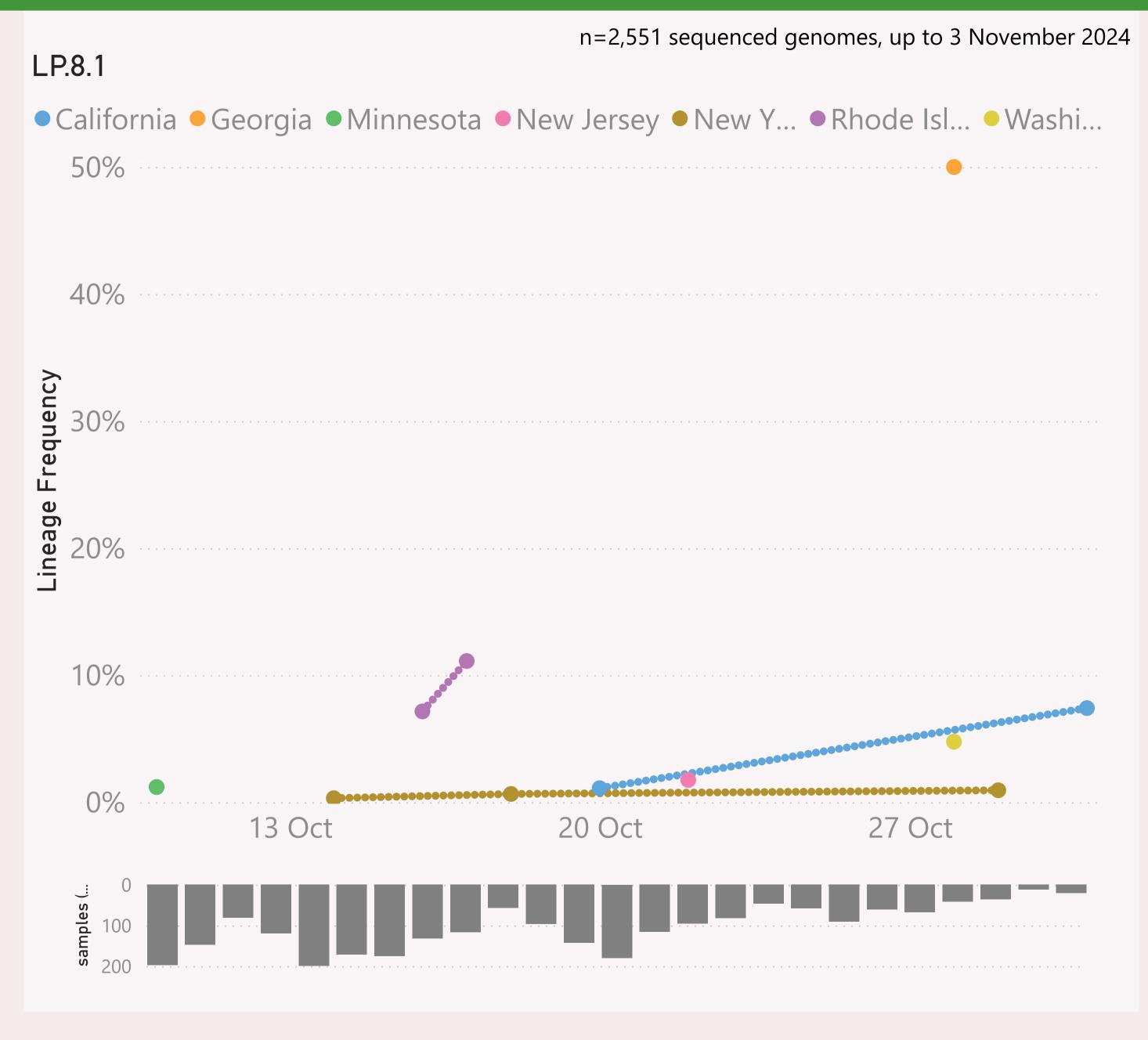


This page shows the frequency of a selected "Lineage L2" group of interest, across the leading States, over recent months.

The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "BA.2.86.*" group includes BA.2.86 and all it's descendants, e.g. the JN.* lineages.

The frequency shown at each point is based on the 7-day rolling average across all lineages, for that state.

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This page shows the frequency of a selected Lineage of interest, across the leading States, over recent months.

The Lineage classifications are provided by Nextclade.

The frequency shown at each point is based on the 7-day rolling average across all lineages, for that state.

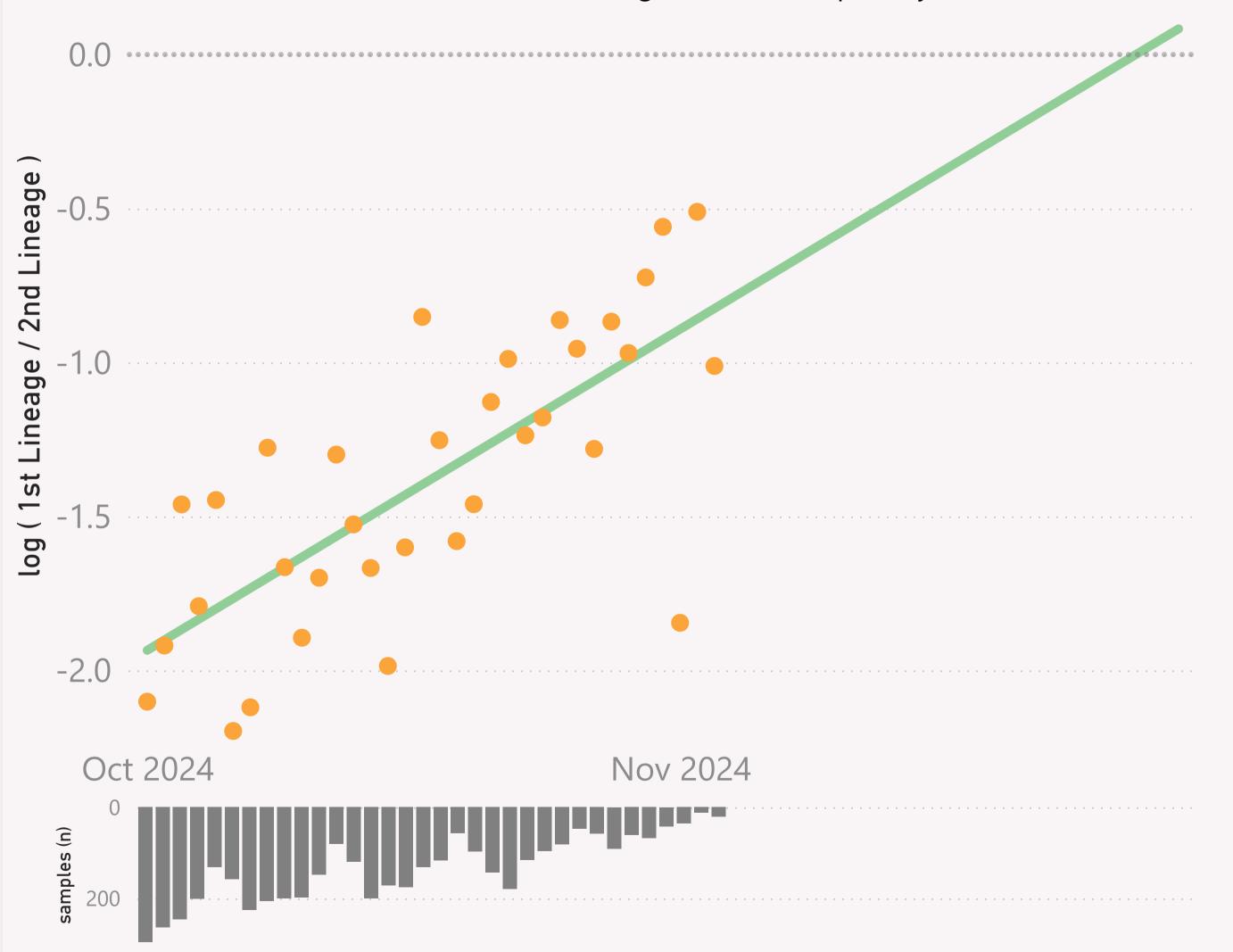
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n=4,480 sequenced genomes, up to 3 November 2024

United States - XEC.* vs JN.1.* +DeFLuQE

• log (1st Lineage / 2nd Lineage) • trend

growth of 3.4% per day, crossover on 28-Nov-24

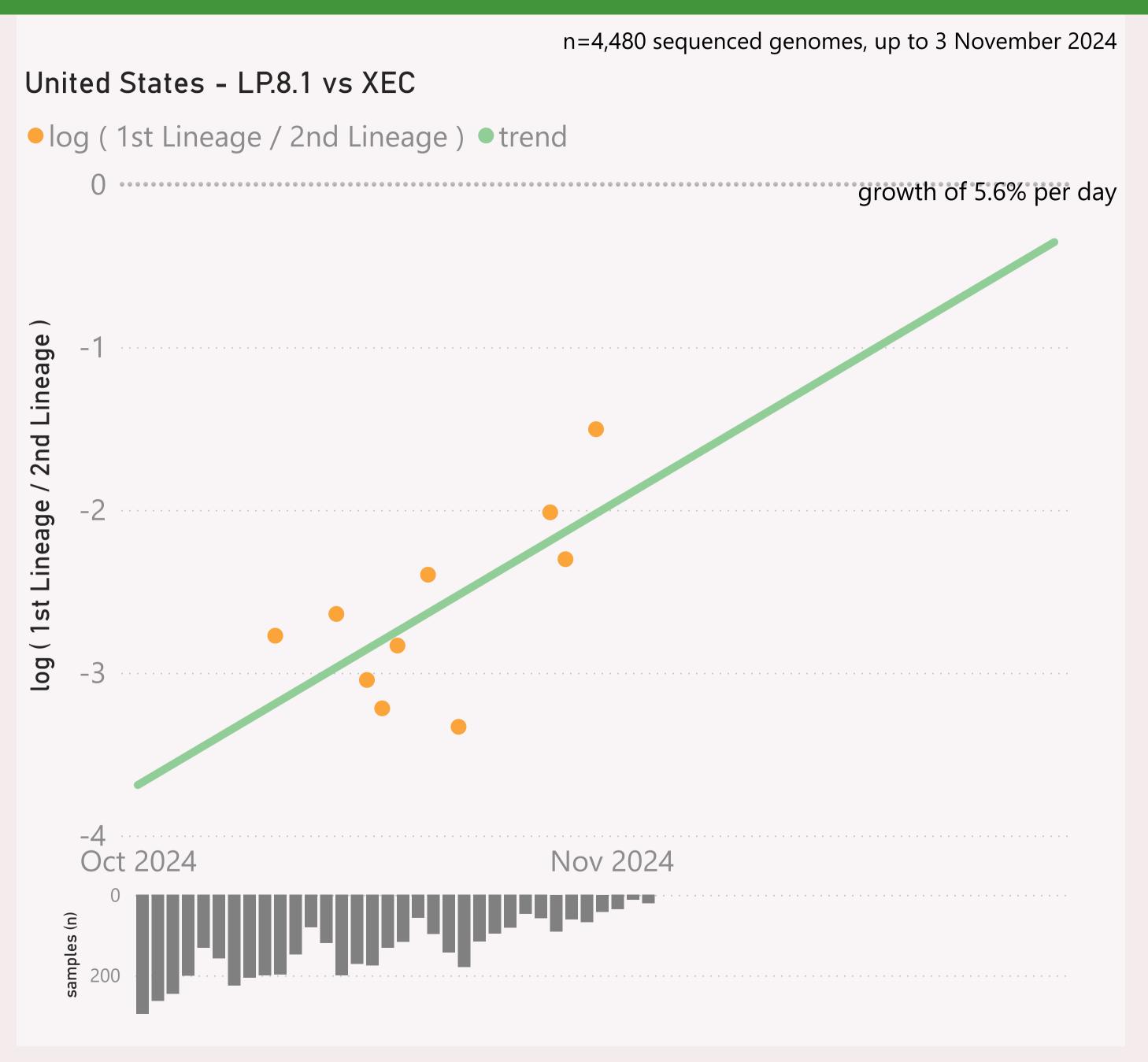


This page compares the relative frequency of 2 selected "Lineage L2" groups, over recent months. A challenging Lineage L2 is selected first, and compared to the incumbent.

The trend is shown as a green line and expressed as a daily growth % advantage. If the green line crosses over the 0.0 line, the date when that occurred or is predicted to occur will be shown. At that point the challenging Lineage L2 is considered to have "crossed over" or taken over dominance from the incumbent Lineage L2.

The Lineage classifications are provided by Nextclade. I add the "Lineage L2" groups, typically following common variant groupings, but occasionally being "creative".

The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

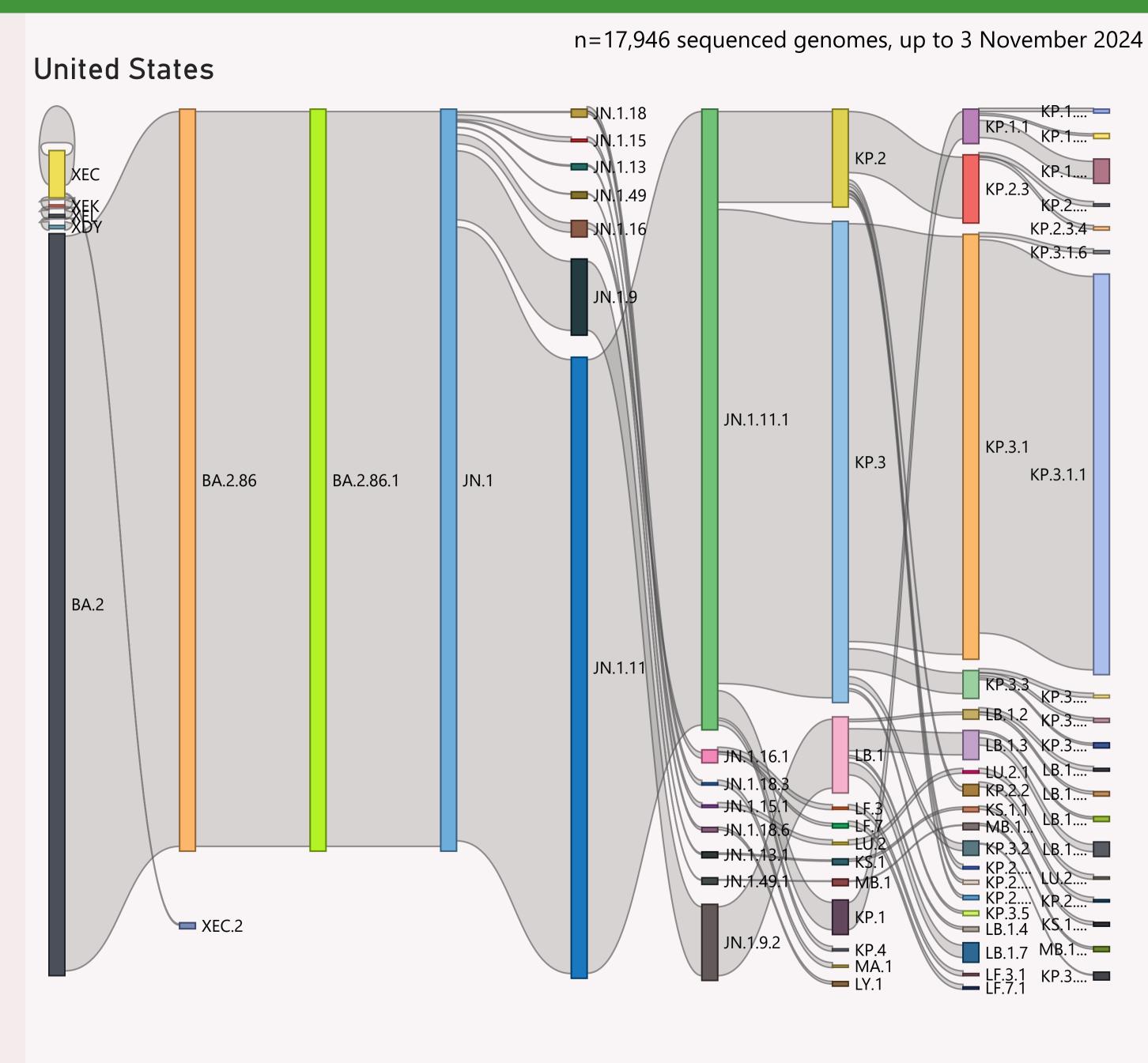


This page compares the relative frequency of 2 selected Lineages, over recent months. A challenging Lineage is selected first, and compared to the incumbent.

The trend is shown as a green line and expressed as a daily growth % advantage. If the green line crosses over the 0.0 line, the date when that occurred or is predicted to occur will be shown. At that point the challenging Lineage is considered to have "crossed over" or taken over dominance from the incumbent Lineage

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This page shows the hierarchy of the significant Lineages, over recent months.

The hierarchy can be read from left to right, starting with the earliest/highest Lineages being broken down into more detailed child Lineages.

The vertical height of each bar segment represents the relative volume of all the samples of that specific Lineage, as well as all it's descendants.

The full picture is typically quite busy, so insignificant Lineages (with few samples, or at the extreme top or bottom of the hierarchy) are not shown.

The Lineage classifications are provided by Nextclade.

Data Submitted in the last 8 weeks

Country	# Samples Sequenced	Latest Collection date	by Collection date	Latest Submission date	by Submission date
□ United States	26,014	03/11/2024		09/11/2024	Udallar nalalar ada amadal
New York	4,444	03/11/2024		09/11/2024	الما المساعد المسالم المسالم
California	3,807	03/11/2024		09/11/2024	To be a first and account
Colorado	3,642	30/10/2024	and the last	08/11/2024	nere die ende
Texas	1,986	22/10/2024	سلطان ادر	09/11/2024	and the same because
Minnesota	1,372	03/11/2024	علاقا المراجع	09/11/2024	a traffic to to 1
Ohio	1,338	29/10/2024		09/11/2024	ramittari ard
Virginia	949	03/11/2024		09/11/2024	al da caracia de ac
New Jersey	934	02/11/2024	A STATE OF THE STA	09/11/2024	adidhadha da sa
Utah	751	03/11/2024	سافيد	09/11/2024	Later and at
Tennessee	524	30/10/2024	The same of the con-	09/11/2024	and the late of th
Maryland	519	03/11/2024		09/11/2024	and the arrest of
Illinois	490	01/11/2024	عطاليد د	09/11/2024	and had been also
Hawaii	399	22/10/2024	J. 100	07/11/2024	ar Jura — III.
Pennsylvania	365	02/11/2024	, loa	09/11/2024	aldada tarig
Connecticut	354	04/10/2024	.444.	09/11/2024	and the second of the land
New Mexico	329	04/10/2024	. وفأنان	09/11/2024	والمساول المساور
Delaware	314	01/11/2024	AL.	09/11/2024	adh a balan bar
North Carolina	292	31/10/2024	. He had	09/11/2024	المرجم والمساويا
Nevada	289	03/11/2024	بتنائيم	09/11/2024	ومالك والسور
Michigan	278	15/10/2024	يرفاني المنافي	30/10/2024	H.I
Georgia	254	28/10/2024	بينان	09/11/2024	
Arizona	216	26/10/2024		09/11/2024	والمحمد أنسيات
lowa	209	03/11/2024	Alpha.	09/11/2024	414.1.1.
Washington	199	31/10/2024	<u>Mari</u>	09/11/2024	عند تمامية أمام لي
Nebraska	196	03/11/2024	سطرا	09/11/2024	- II, III, II
District of Columbia	184	28/10/2024		09/11/2024	بتاريا الت
Louisiana	173	01/11/2024		09/11/2024	.,
Total	26,014	03/11/2024		09/11/2024	talahar natahar ada ana atah

This page shows the volume and currency/timeliness of the genomic sequencing data shared via GISAID, over the last 8 weeks. A breakdown of the leading states (by volume) is shown.

Each sample shared comes with a Collection date - when the PCR test for that sample was collected. The GISAID system also records a Submission date for each sample, which is typically the date that sample was uploaded.

The latest date of each type is shown, along with "sparkline"-style mini charts to give a flavour for the spread of recent data by Collection date and by Submission date.