

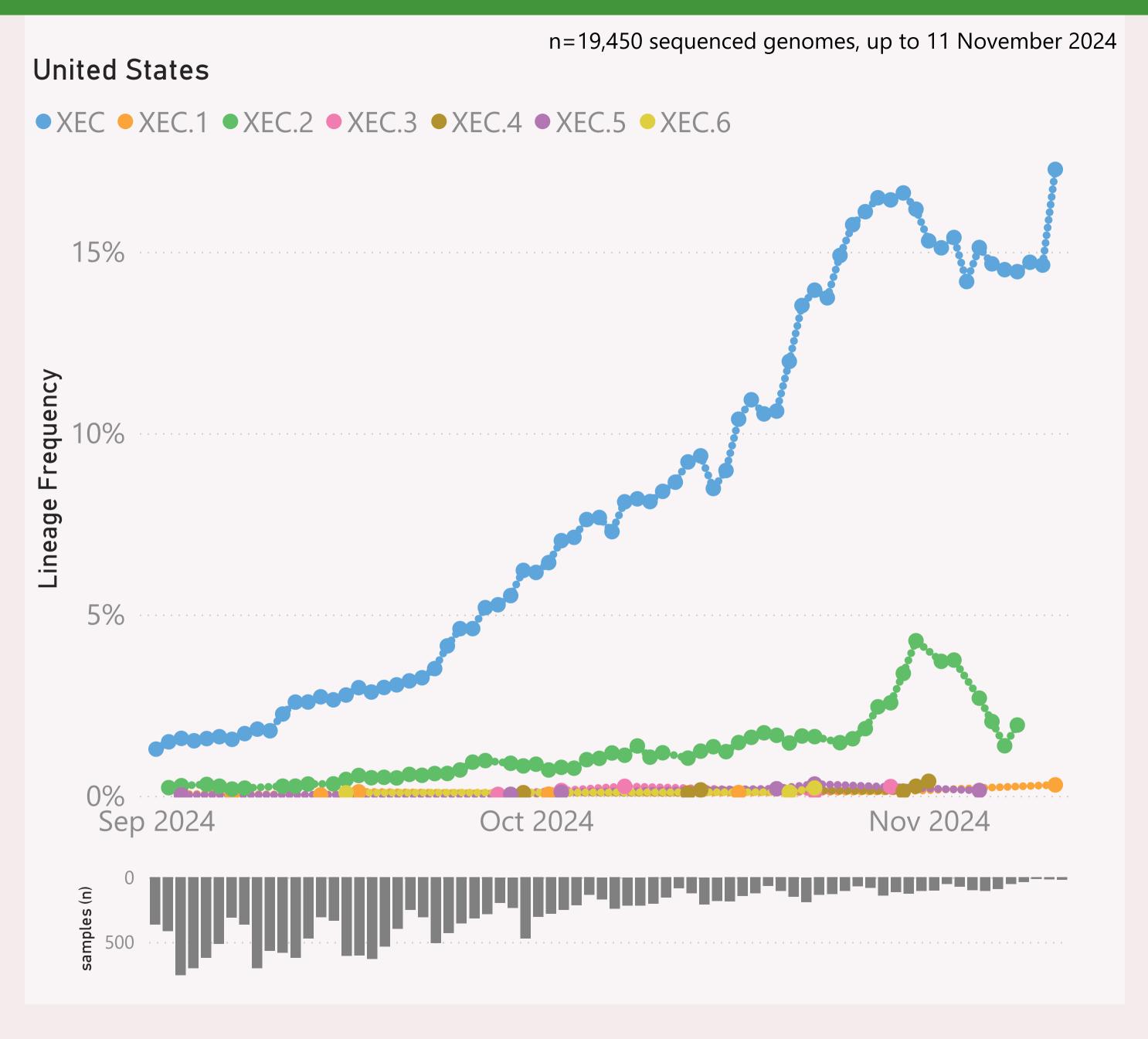
This page shows the frequency of the top 7 "L2" lineages, across recent months.

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.

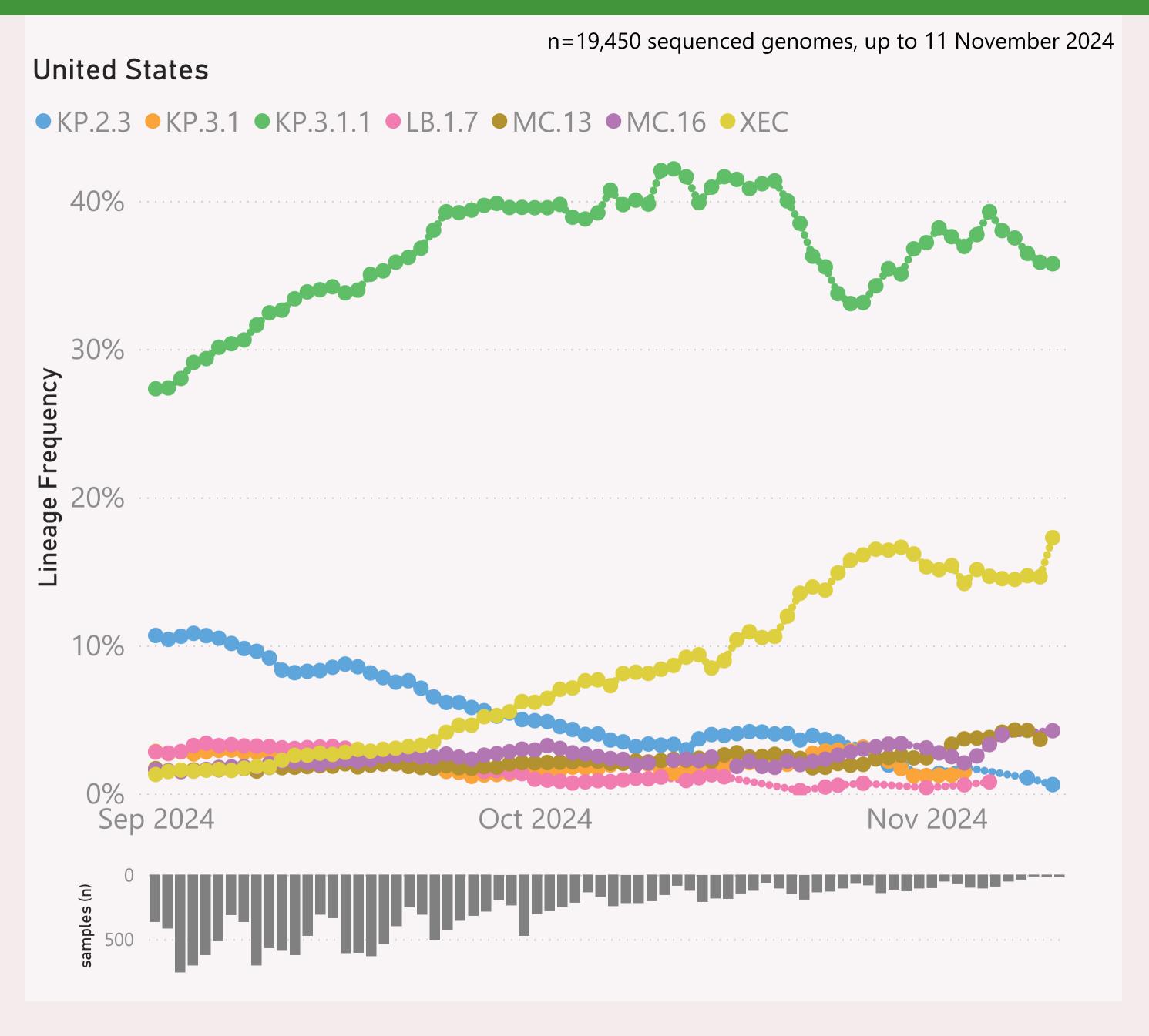


This page shows the frequency of the top 7 lineages, across recent months. The lineages are filtered for a "Lineage L2" group of interest, currently "XEC.*.

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

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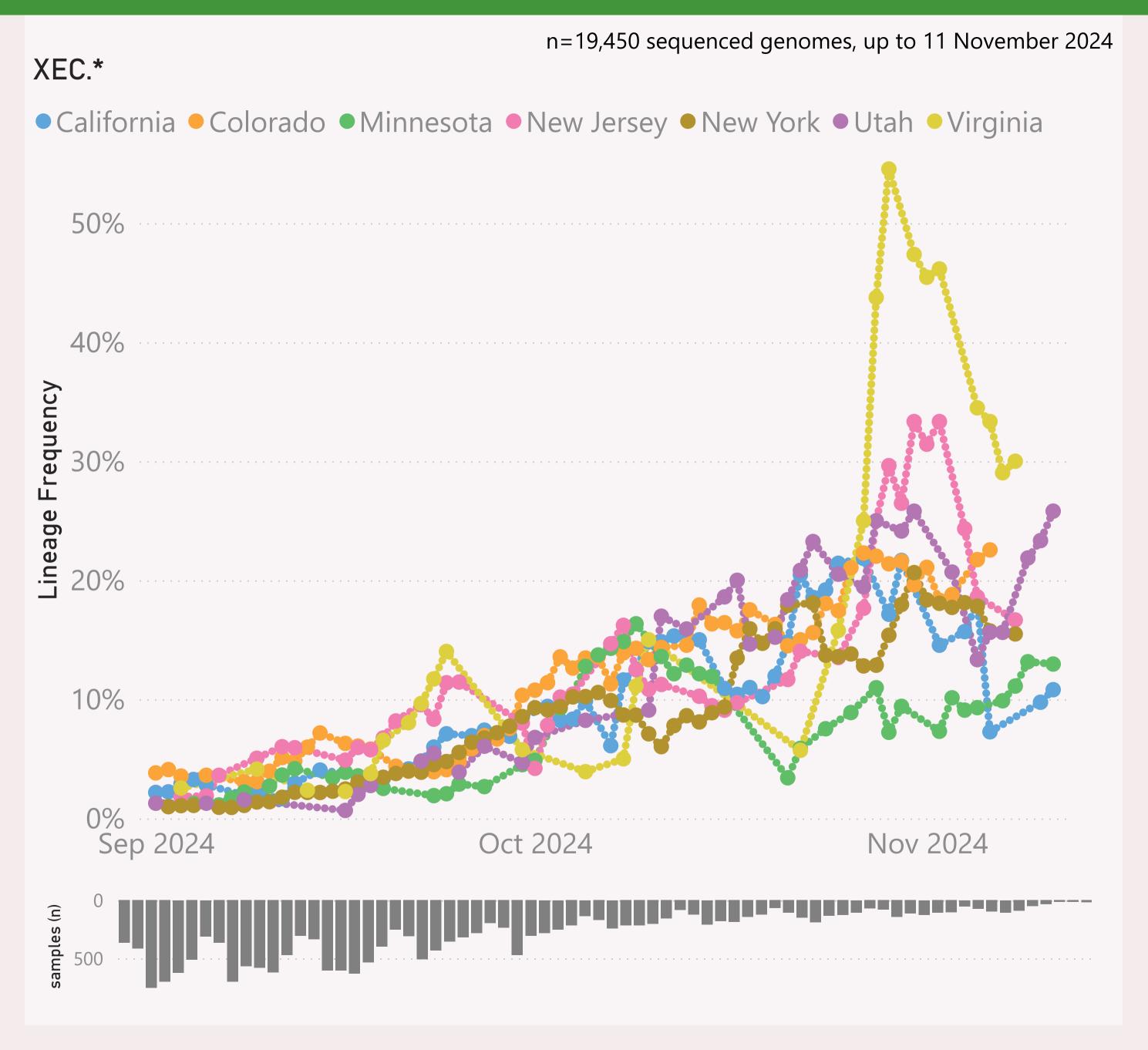


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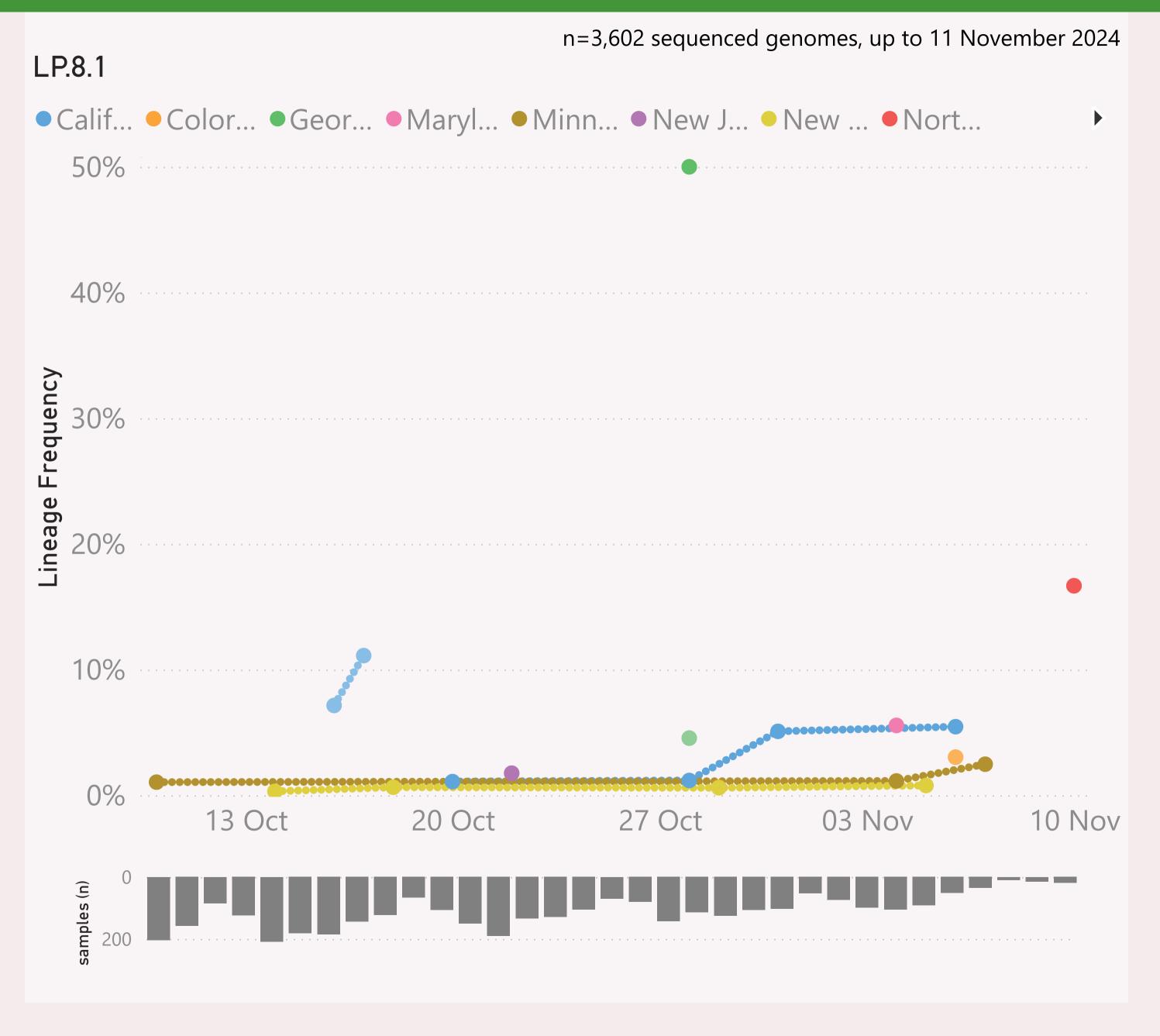


This page shows the frequency of a selected "Lineage L2" group of interest, across the leading States, over recent months.

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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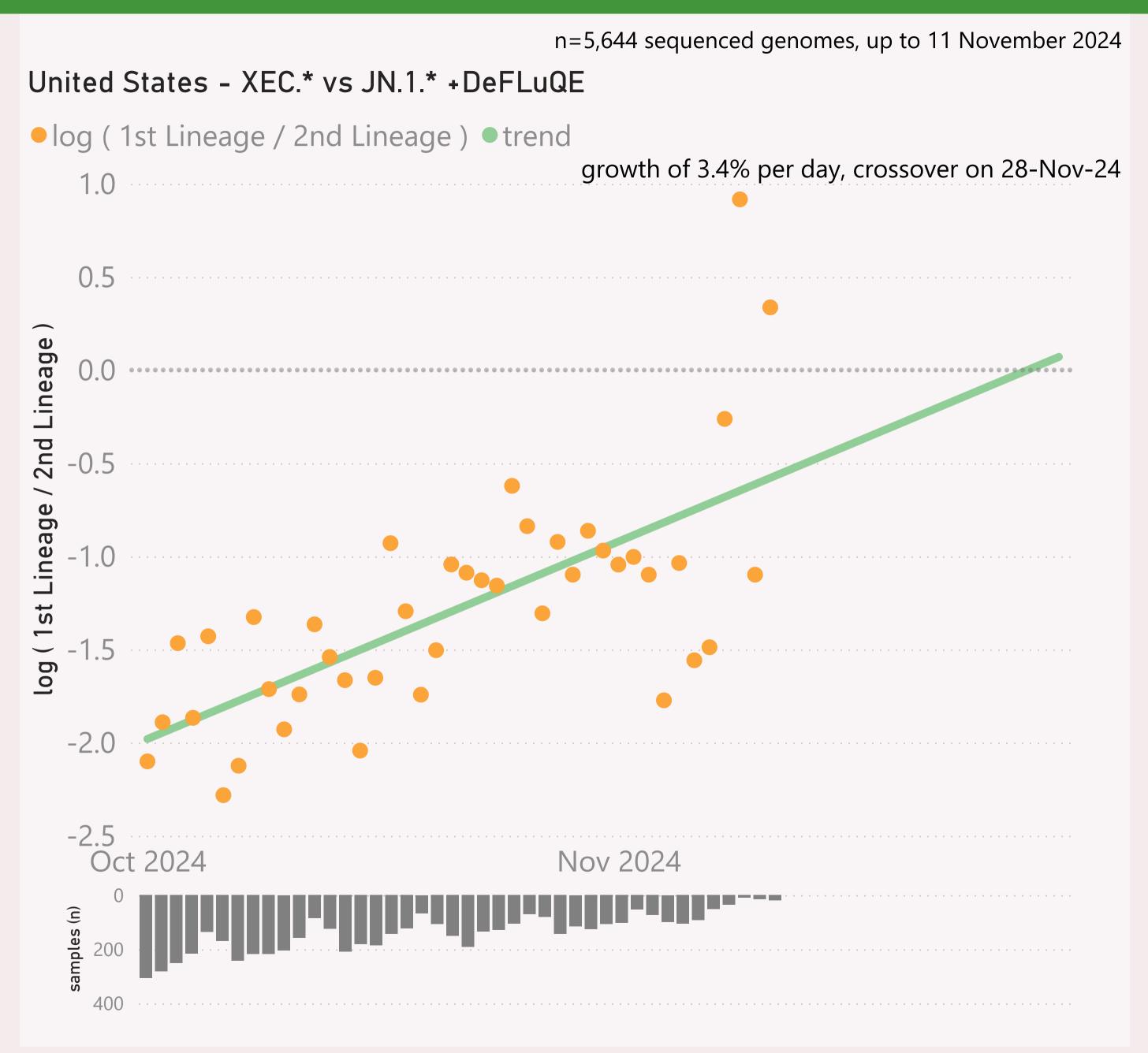


This page shows the frequency of a selected Lineage of interest, across the leading States, over recent months.

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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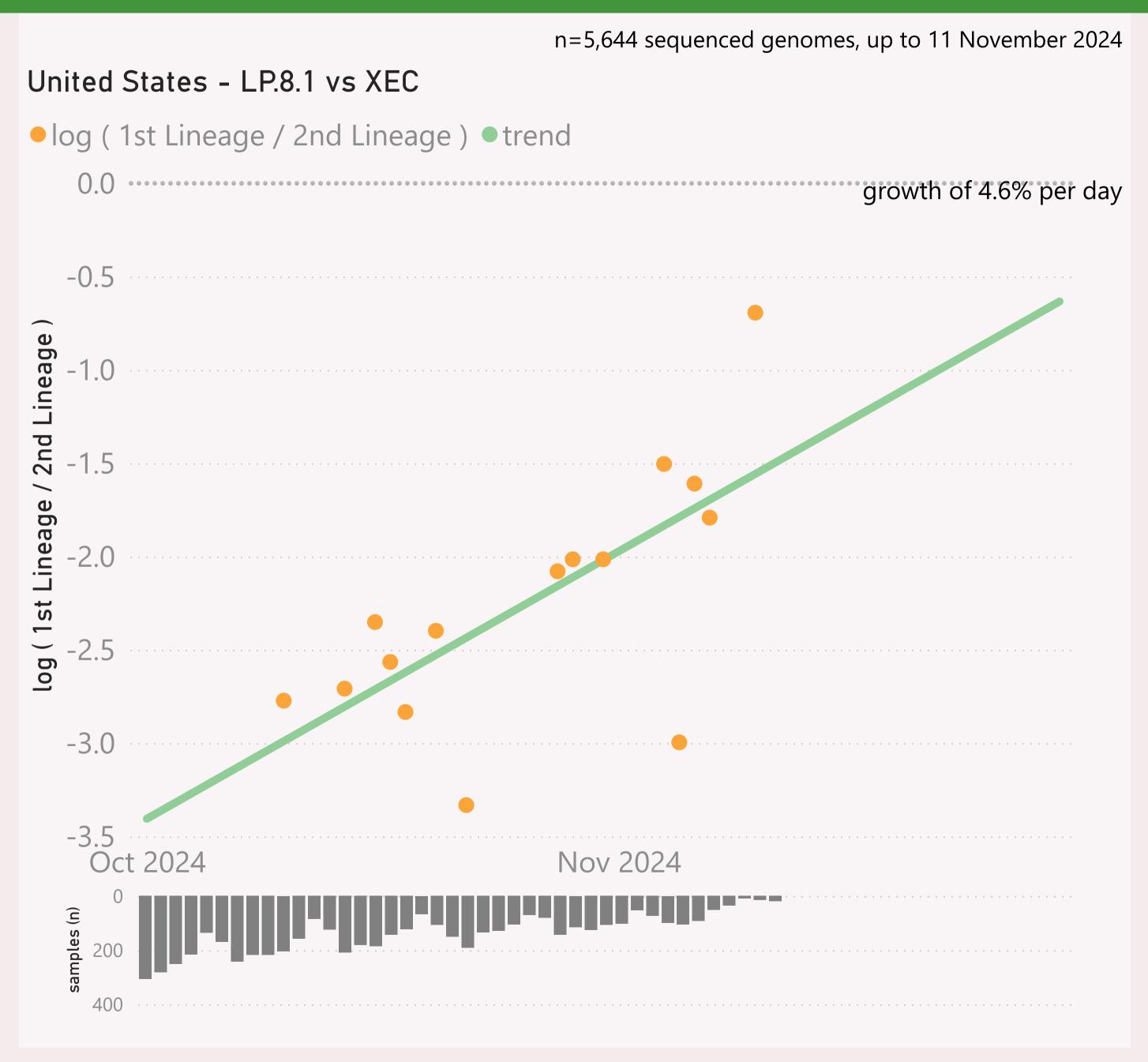


This page compares the relative frequency of 2 selected "Lineage L2" groups, over recent months. A challenging Lineage L2 is selected first, and compared to the incumbent.

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.

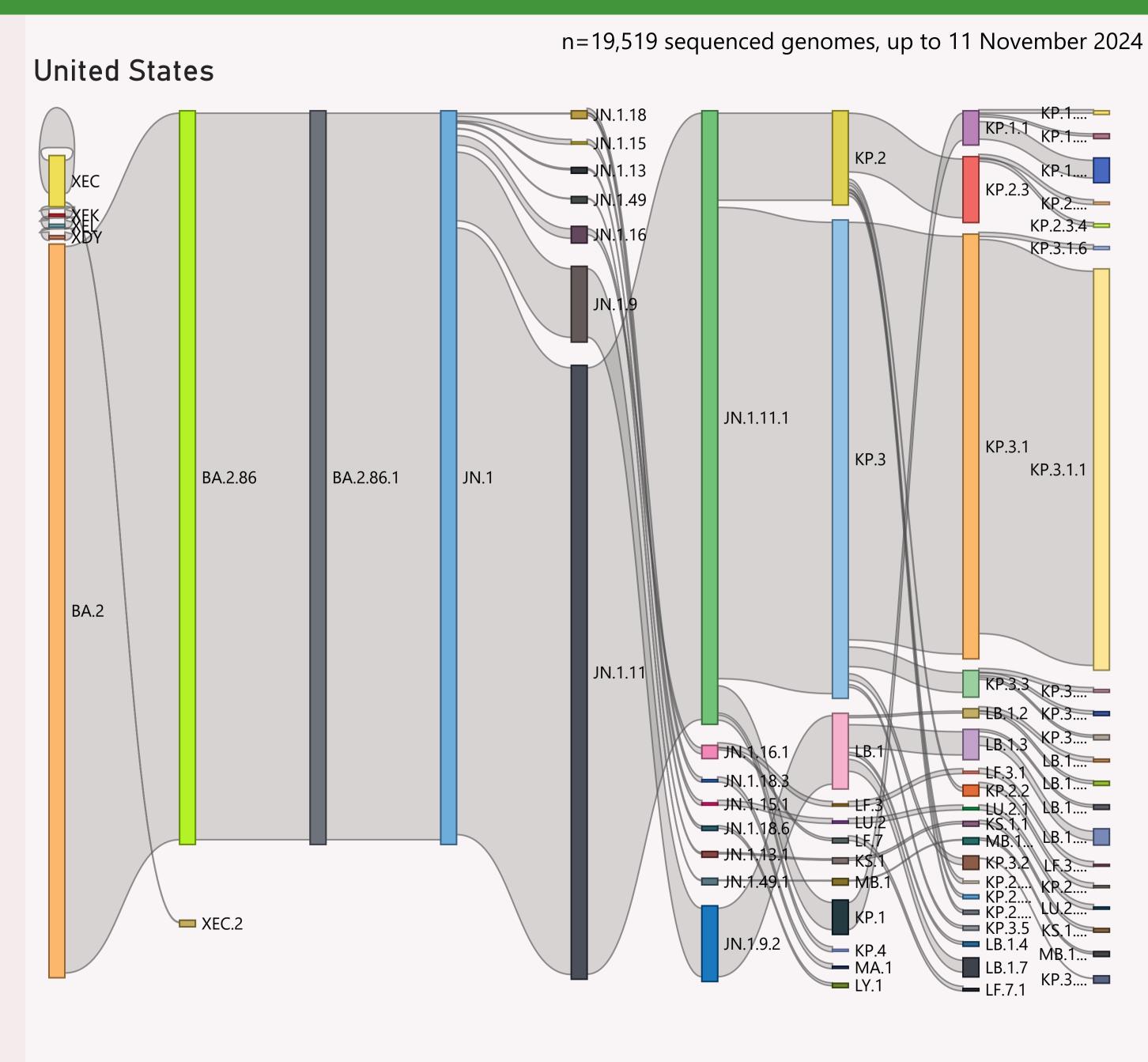


This page compares the relative frequency of 2 selected Lineages, over recent months. A challenging Lineage is selected first, and compared to the incumbent.

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.

Country	# Samples Sequenced	Latest Collection date	by Collection date	Latest Submission date	by Submission date
□ United States	23,432	11/11/2024		16/11/2024	المداليل مراجيل والعاشا
New York	3,529	10/11/2024		16/11/2024	مناب أحسمت سوما عالم
California	3,214	11/11/2024	المنطقية المنافقة	16/11/2024	language and a second and a second
Colorado	2,938	07/11/2024	Alberta.	16/11/2024	to the state of
Texas	1,950	06/11/2024	الله	16/11/2024	and and bear and
Minnesota	1,459	11/11/2024	ينبطأ أمري	16/11/2024	Irolan I Ir - III
Ohio	1,422	04/11/2024		16/11/2024	in the real and the
New Jersey	804	10/11/2024	عالم المالي	16/11/2024	Anatha da cara
Virginia	725	11/11/2024	المسابلة المستوال	16/11/2024	the contraction discount
Utah	558	11/11/2024	يبطأون	16/11/2024	r Lar and a Li
Illinois	506	08/11/2024		16/11/2024	Land to a start
Maryland	506	08/11/2024		16/11/2024	to the arrival and the
Tennessee	480	05/11/2024	مشأك ال	16/11/2024	
Connecticut	459	29/10/2024	والمأألين	16/11/2024	to a control of
New Mexico	410	30/10/2024	باخأات	16/11/2024	
Rhode Island	408	17/10/2024	dist	15/11/2024	
Hawaii	360	22/10/2024	and a	07/11/2024	do III.
Pennsylvania	316	08/11/2024	. 4	16/11/2024	Alberta car
Michigan	312	04/11/2024	<u></u>	16/11/2024	- 11la . a i
North Carolina	283	11/11/2024	المرابات ا	16/11/2024	
Nevada	265	11/11/2024	متعالف	16/11/2024	ar tarable col
Georgia	254	11/11/2024	والمستقلل	16/11/2024	1 dr
Delaware	246	08/11/2024	.44.	16/11/2024	dia di Alexanderia
Nebraska	228	09/11/2024	1 hait	16/11/2024	11 111 1 11
Arizona	227	09/11/2024	ملأو ر	16/11/2024	and the soul of
Washington	214	06/11/2024	and the same plants	16/11/2024	الدادات الماسي أمرأه
District of Columbia	177	28/10/2024	, <u></u>	12/11/2024	1.1.1
lowa	173	11/11/2024	ماد الحد	16/11/2024	111. 1
Total	23,432	11/11/2024	L	16/11/2024	thin talchin also his data and

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.