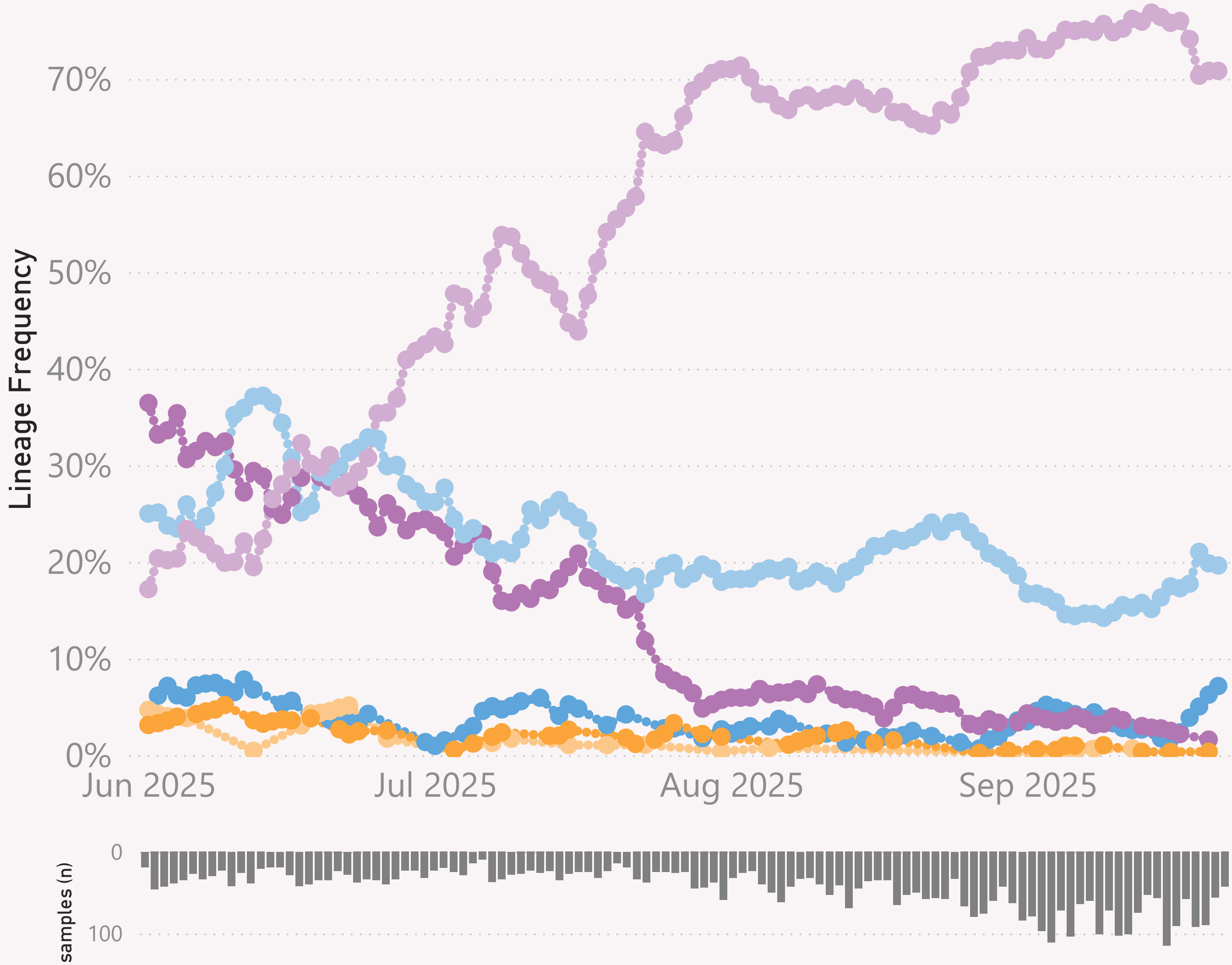


n=5,071 sequenced genomes, from 1 June 2025 up to 21 September 2025

Canada

JN.1.\* +FLiRT LP.8.1.\* NB.1.8.1.\* Nimbus XEC.\* XFC.\* XFG.\*



This page shows the frequency of the top 6 "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.

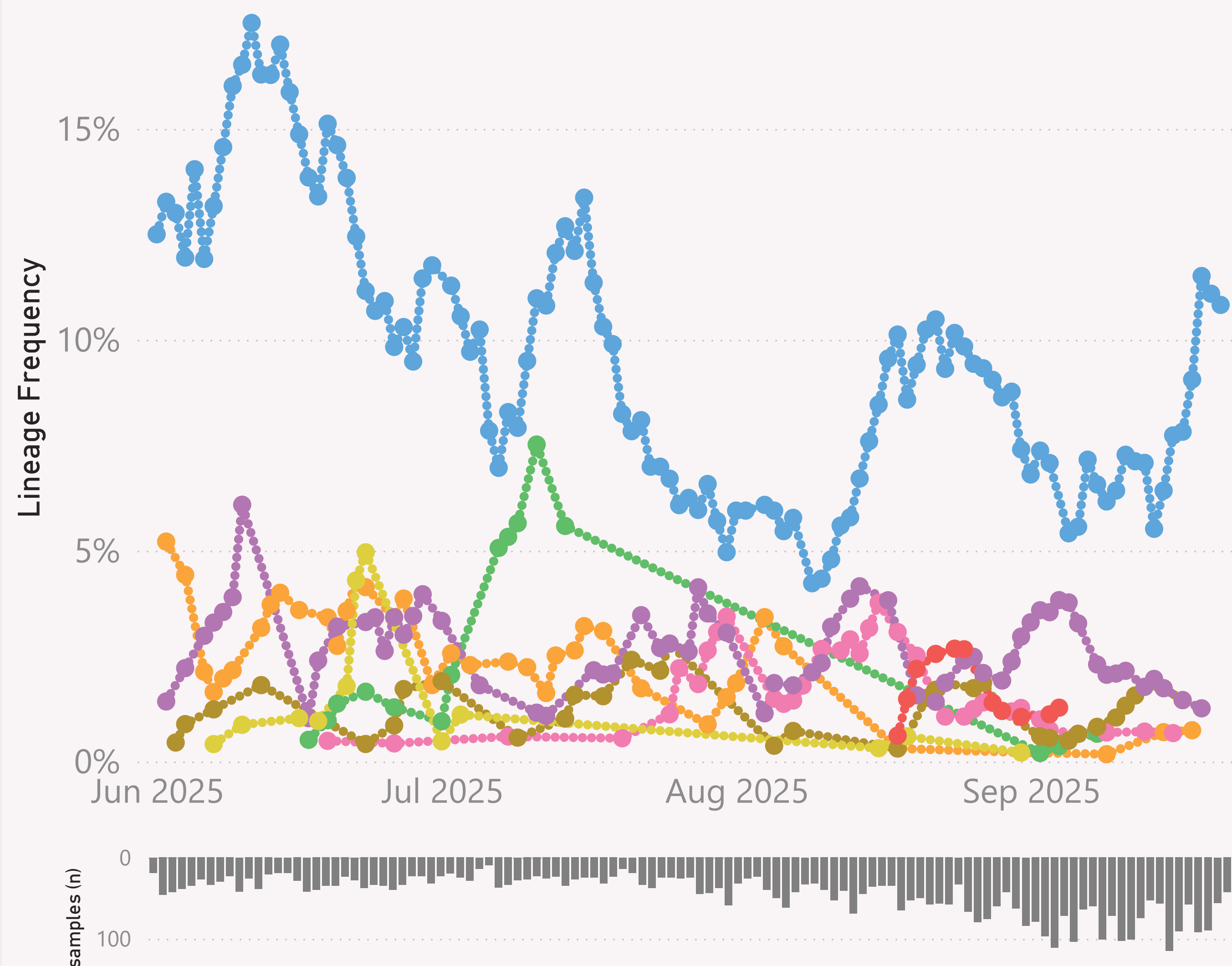
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=5,071 sequenced genomes, from 1 June 2025 up to 21 September 2025

## Canada

● NB.1.8.1 ● PQ.1 ● PQ.1.3 ● PQ.14 ● PQ.17 ● PQ.2 ● PQ.2.4 ● PQ.35



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 NB.1.8.1.\* "Nimbus".

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.

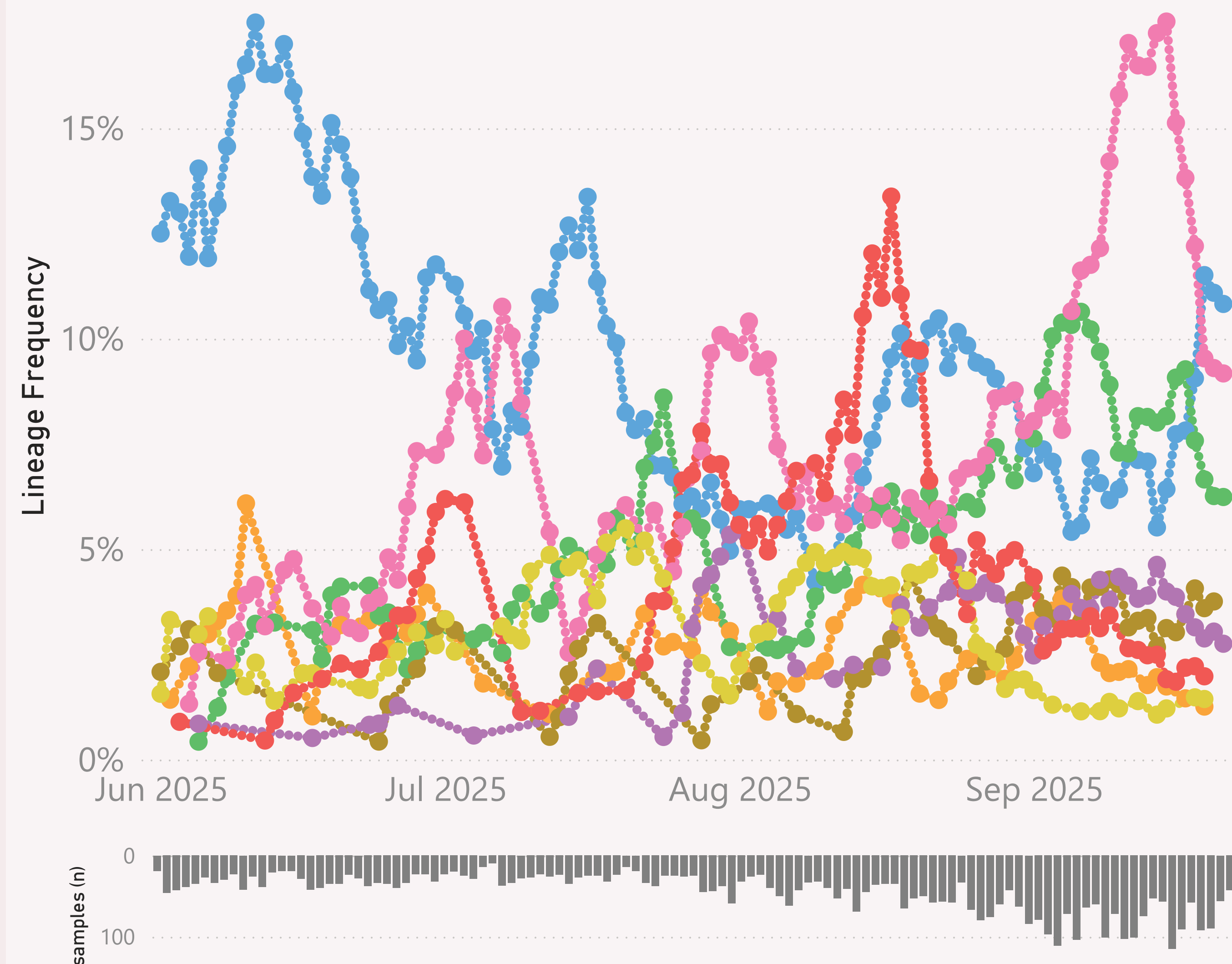
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=5,071 sequenced genomes, from 1 June 2025 up to 21 September 2025

## Canada

● NB.1.8.1 ● PQ.2 ● XFG.2 ● XFG.3 ● XFG.3.15 ● XFG.3.4.1 ● XFG.4.1 ● XFG.5.1



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

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.

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.

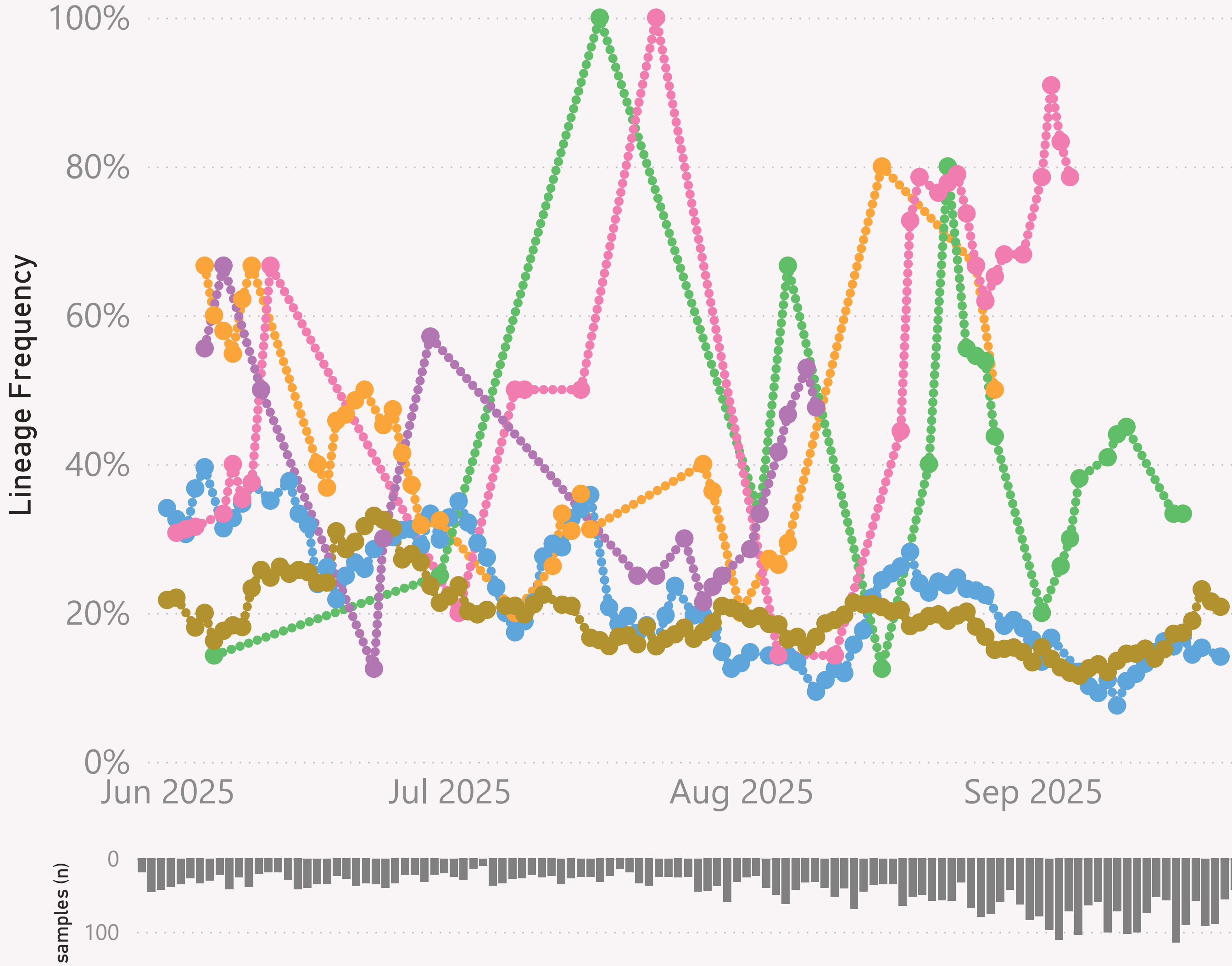
The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.



n=5,071 sequenced genomes, from 1 June 2025 up to 21 September 2025

NB.1.8.1.\* Nimbus

● Alberta ● British Colu... ● Newfoundlan... ● Nova Scotia ● Ontario ● Saskatche...



This page shows the frequency of a selected Lineage L2 of interest, across the provinces of Canada, 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.

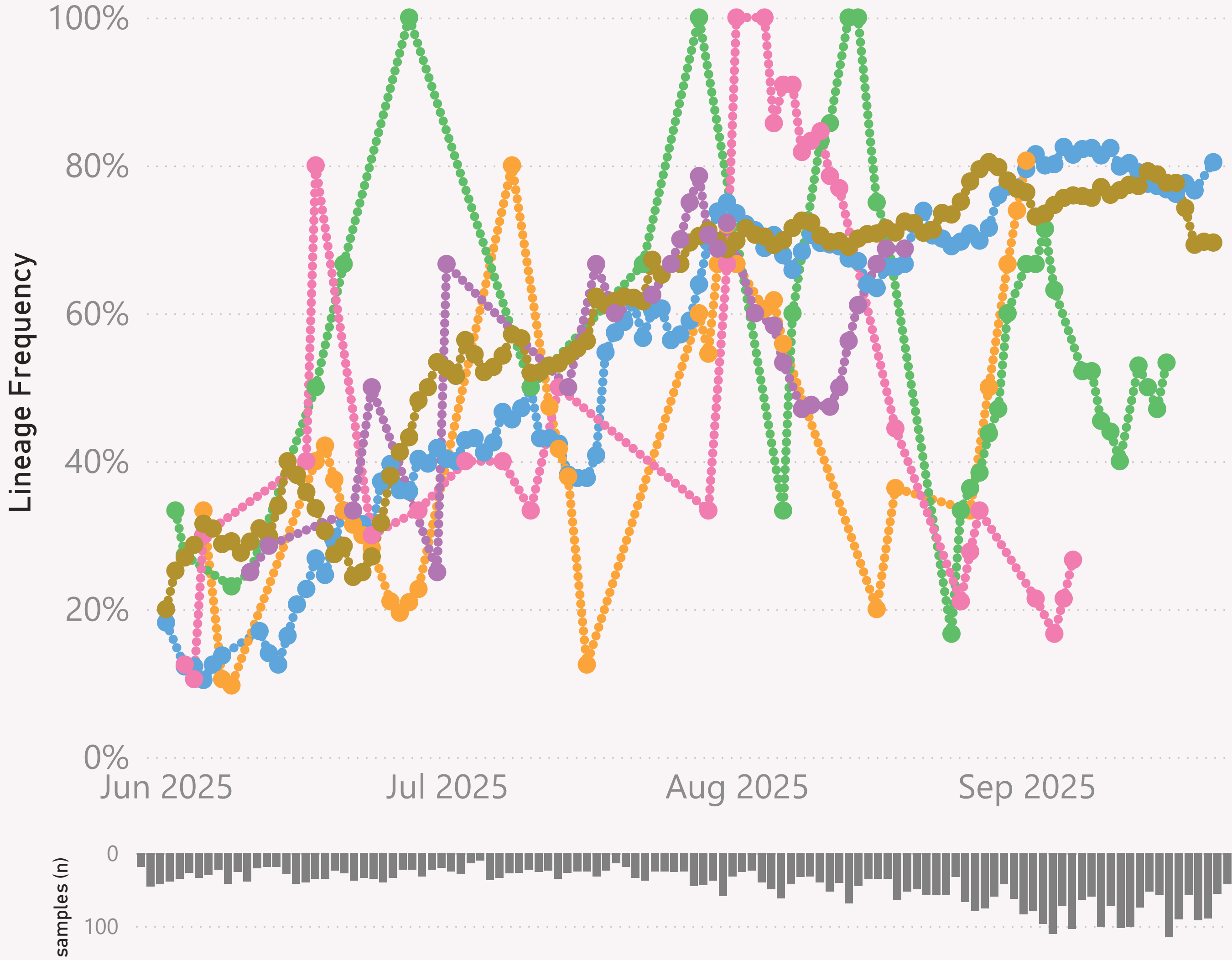
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=5,071 sequenced genomes, from 1 June 2025 up to 21 September 2025

XFG.\*

● Alberta ● British Colu... ● Newfoundlan... ● Nova Scotia ● Ontario ● Saskatche...



This page shows the frequency of a selected Lineage L2 of interest, across the provinces of Canada, 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.

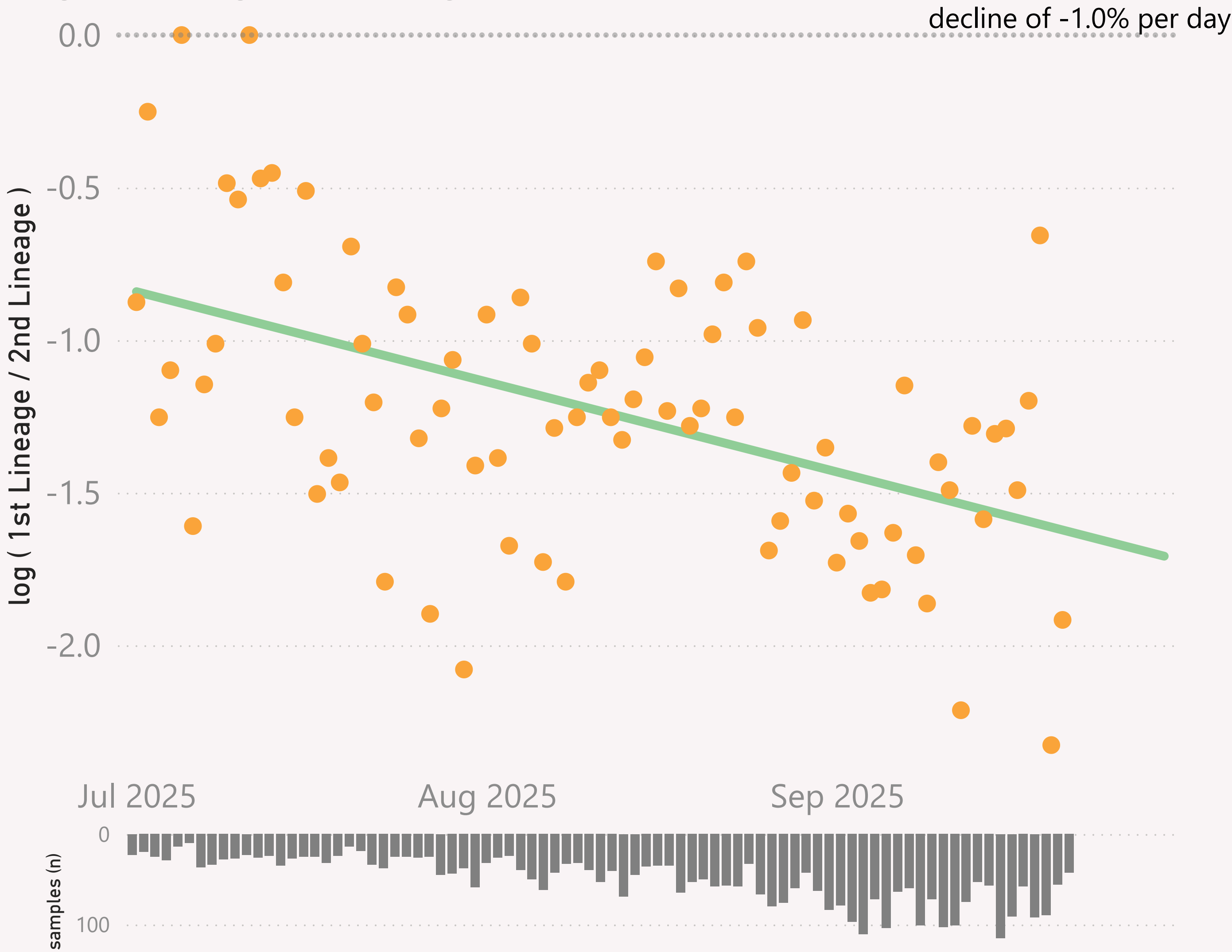
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=4,117 sequenced genomes, from 1 July 2025 up to 21 September 2025

Canada - NB.1.8.1.\* Nimbus vs XFG.\*

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



Date

01/07/202530/09/2025

Host

Human

Continent, Country, Location

North America (Continent) + Canada (Coun...

Lineage L2

NB.1.8.1.\* Nimbus

vs Lineage L2 (nextclade)

XFG.\*

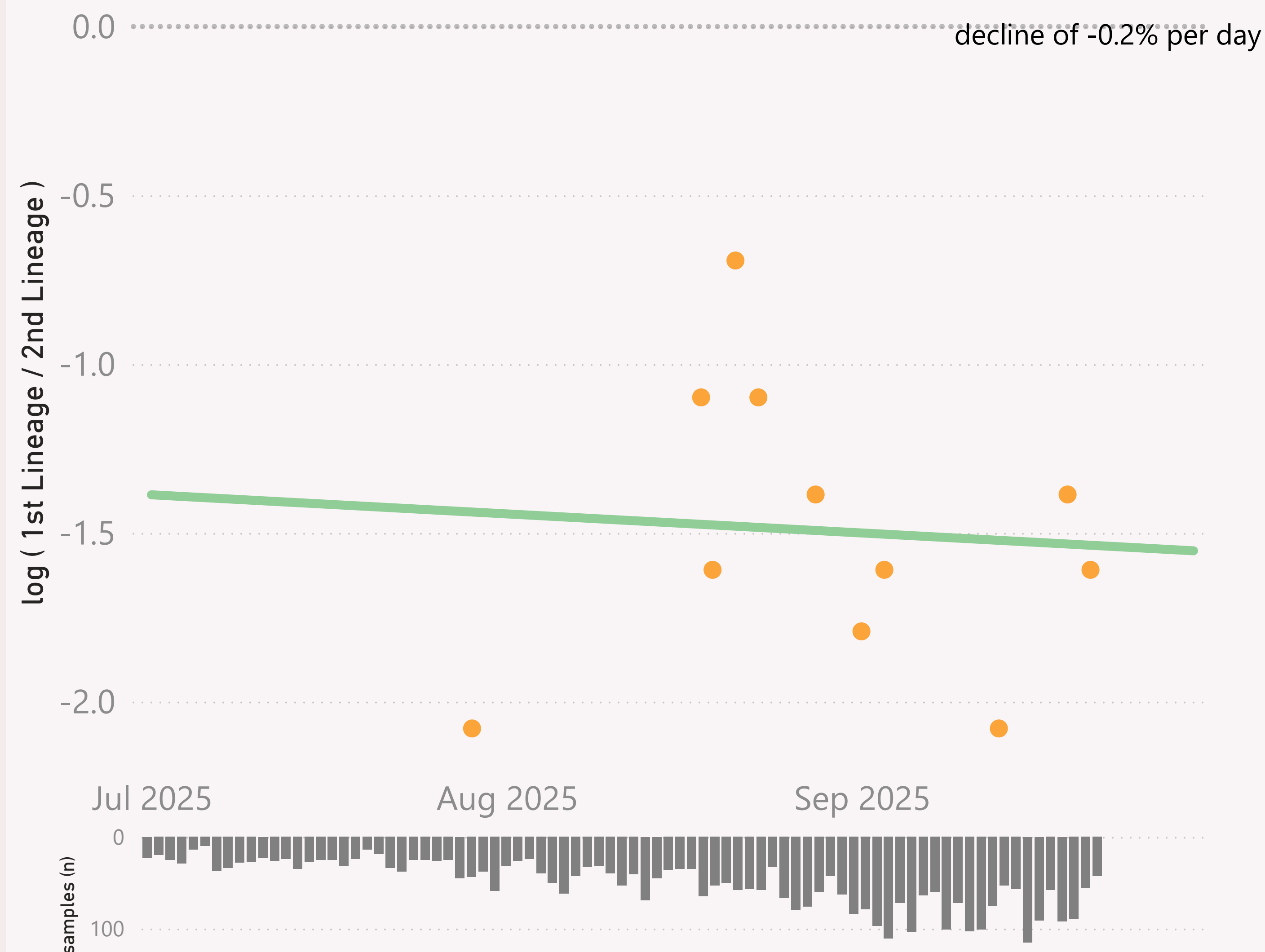
Country	Location	Addi...	Collection date	Lineage L2	Lineage (nextcla
Canada	Alberta		21/09/2025	NB.1.8.1....	PQ.13.1
Canada	Ontario		21/09/2025	NB.1.8.1....	NB.1.8.1
Canada	Ontario		21/09/2025	NB.1.8.1....	PQ.2.4.2
Canada	Ontario		21/09/2025	NB.1.8.1....	PQ.4.2
Canada	Ontario		20/09/2025	NB.1.8.1....	NB.1.8.1
Canada	Ontario		20/09/2025	NB.1.8.1....	PQ.10.1.4
Canada	Ontario		20/09/2025	NB.1.8.1....	PQ.17.2
Canada	Ontario		20/09/2025	NB.1.8.1....	PQ.4.1
Canada	Alberta		19/09/2025	NB.1.8.1....	PQ.2
Canada	Alberta		19/09/2025	NB.1.8.1....	PQ.4.1
Canada	Ontario		19/09/2025	NB.1.8.1....	NB.1.8.1
Canada	Ontario		19/09/2025	NB.1.8.1....	PQ.17.2
Canada	Ontario		19/09/2025	NB.1.8.1....	PQ.2
Canada	Ontario		19/09/2025	NB.1.8.1....	PQ.2.9
Canada	Ontario		19/09/2025	NB.1.8.1....	PQ.31
Canada	Ontario		19/09/2025	NB.1.8.1....	PQ.34.1
Canada	Ontario		19/09/2025	NB.1.8.1....	PQ.4.5
Canada	Ontario		19/09/2025	NB.1.8.1....	PQ.5
Canada	Alberta		18/09/2025	NB.1.8.1....	NB.1.8.1
Canada	New Brunswick		18/09/2025	NB.1.8.1....	PQ.1.2
Canada	Ontario		18/09/2025	NB.1.8.1....	NB.1.8.1
Canada	Ontario		18/09/2025	NB.1.8.1....	PQ.1
Total					



n=4,117 sequenced genomes, from 1 July 2025 up to 21 September 2025

## Canada - XFG.1.1 vs XFG.3

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



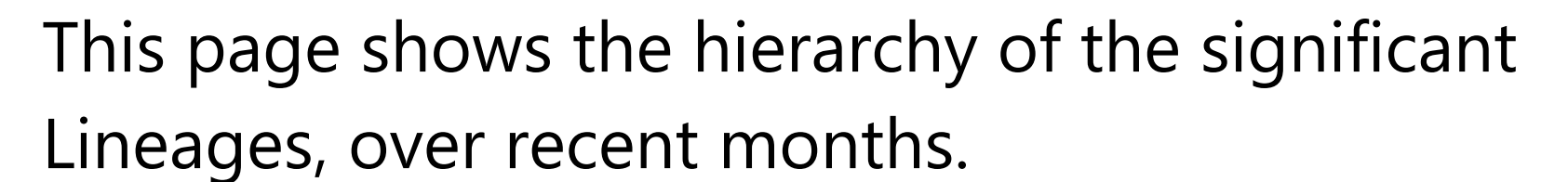
This page compares the relative frequency of 2 selected Lineages, over recent months. A challenging Lineage is selected first, and compared to the incumbent.

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

The Lineage classifications are provided by Nextclade.

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.

## Canada



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
▲					
☐ Canada	3,707	21/09/2025		30/09/2025	
Alberta	1,015	21/09/2025		29/09/2025	
British Columbia	131	01/09/2025		30/09/2025	
Manitoba	14	18/06/2025		30/09/2025	
New Brunswick	70	19/09/2025		30/09/2025	
Newfoundland and Labrador	85	17/09/2025		30/09/2025	
Nova Scotia	88	06/09/2025		17/09/2025	
Ontario	2,226	21/09/2025		30/09/2025	
Saskatchewan	78	20/08/2025		17/09/2025	
Total	3,707	21/09/2025		30/09/2025	

This page shows the volume and currency/timeliness of the genomic sequencing data shared via GISAID, over the last 8 weeks. A breakdown by province is also 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.