

This page shows the frequency of the top 7 "L2" lineages for NZ, 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.

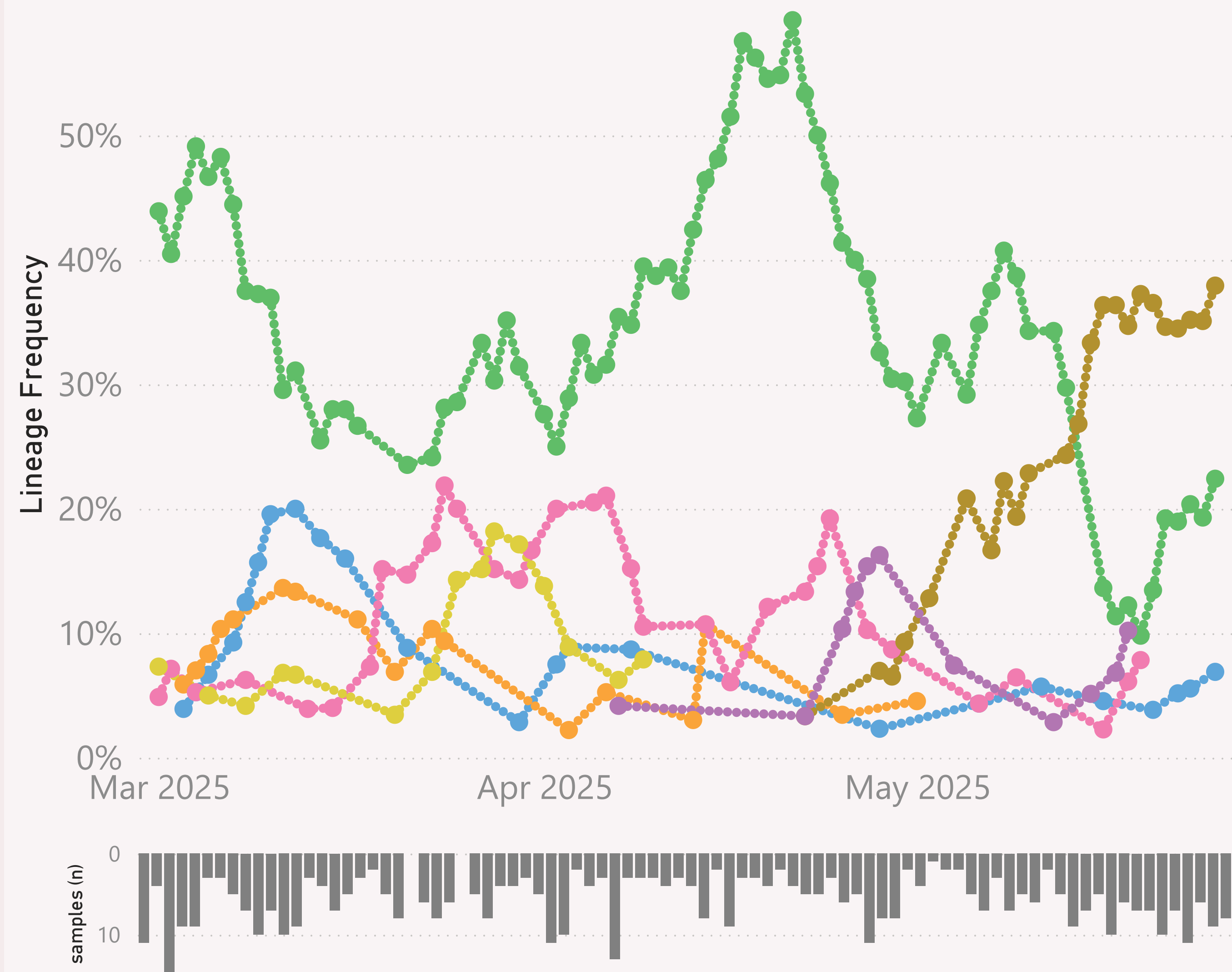
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

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

## New Zealand

n=490 sequenced genomes, from 1 March 2025 up to 25 May 2025

● LP.8.1.1 ● MC.10.1 ● MC.10.2.1 ● MC.21.1 ● NB.1.8.1 ● PU.1 ● XEC



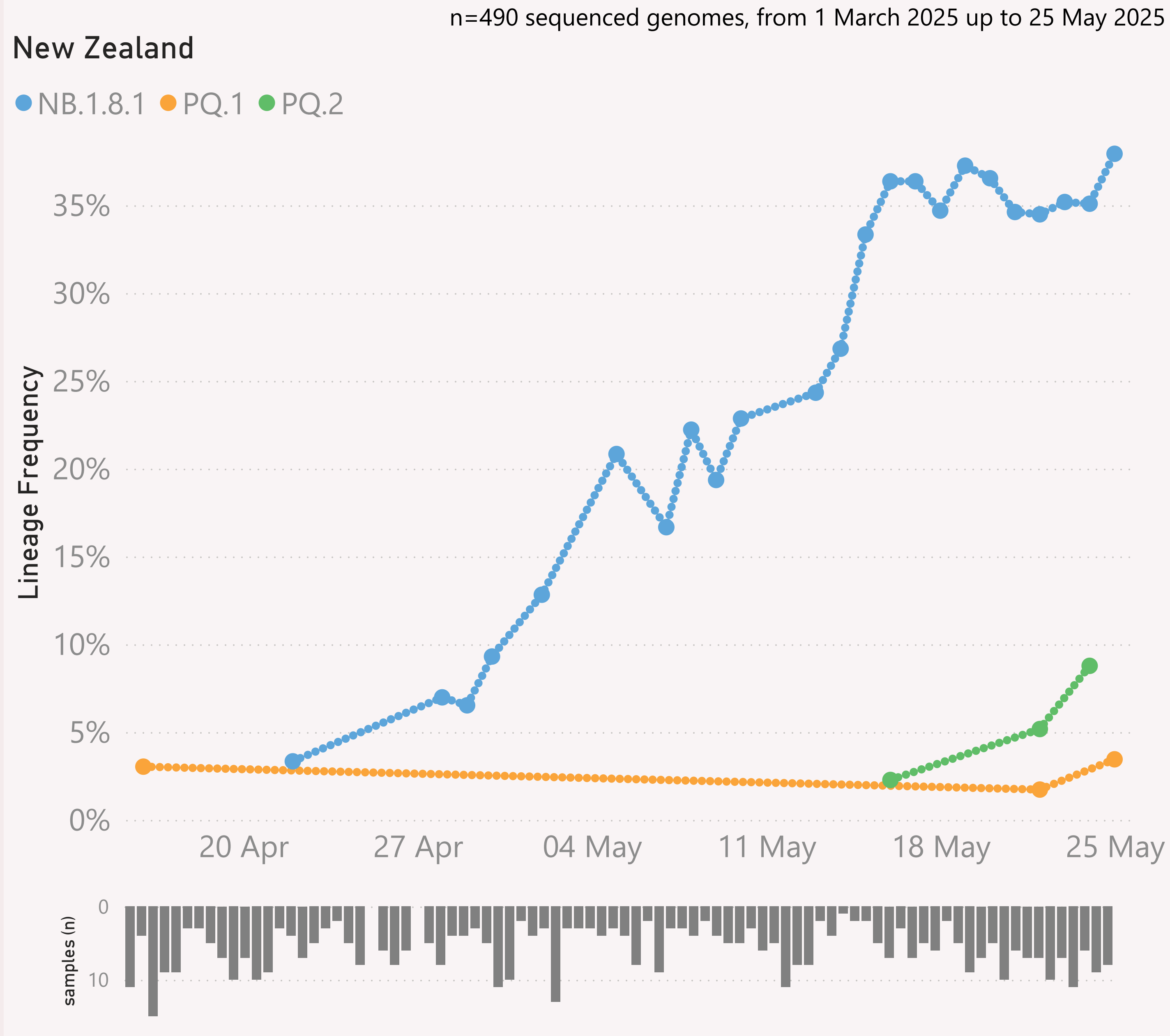
This page shows the frequency of the top 7 lineages for NZ, across recent months.

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.



This page shows the frequency of the top 7 lineages for NZ, across recent months, for a selected Lineage L2: NB.1.8.1.\* "Nimbus".

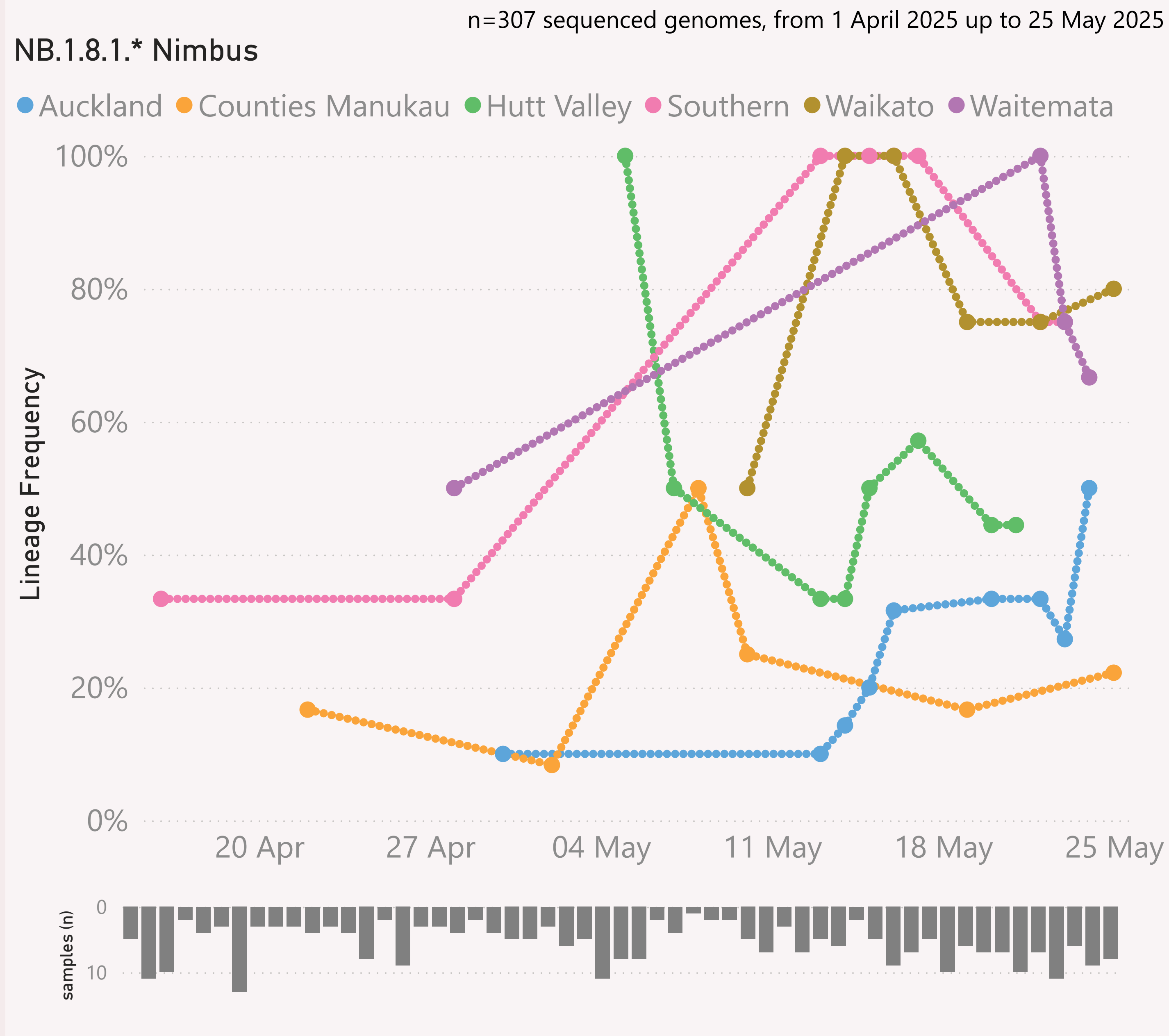
The Lineage classifications are provided by Nextclade. The colour assignments are random.

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.





This page shows the frequency of a selected Lineage L2 of interest, across the District Health Boards (DHB) of NZ, over recent months. The top 6 locations are shown, based on the volume of samples.

The Lineage classifications are provided by Nextclade.

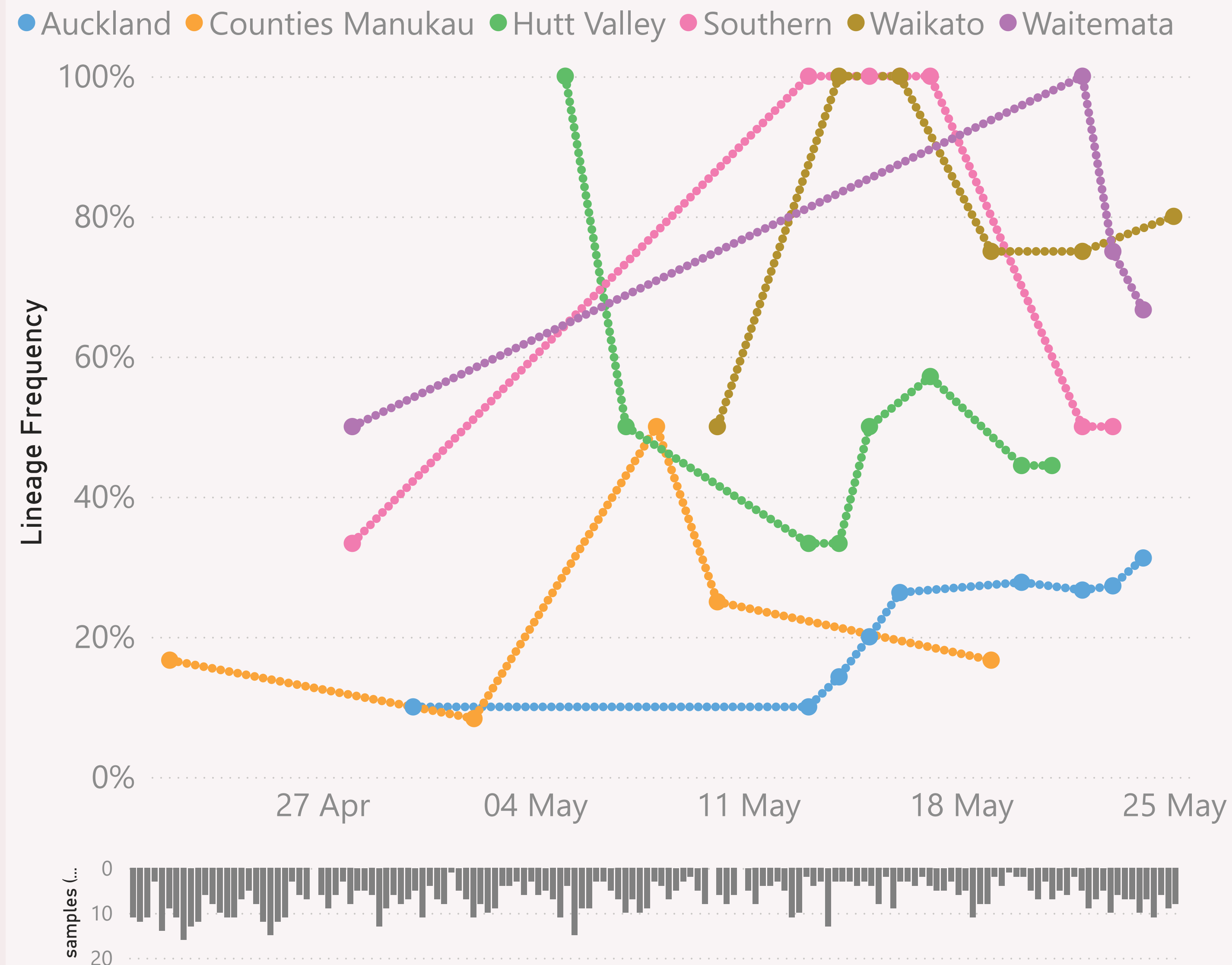
The frequency shown at each point is based on the 7-day rolling average across all lineages, for that DHB.

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.

## NB.1.8.1

n=949 sequenced genomes, from 1 January 2025 up to 25 May 2025



This page shows the frequency of a selected Lineage of interest, across the District Health Boards (DHB) of NZ, over recent months. The top 6 locations are shown, based on the volume of samples.

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.

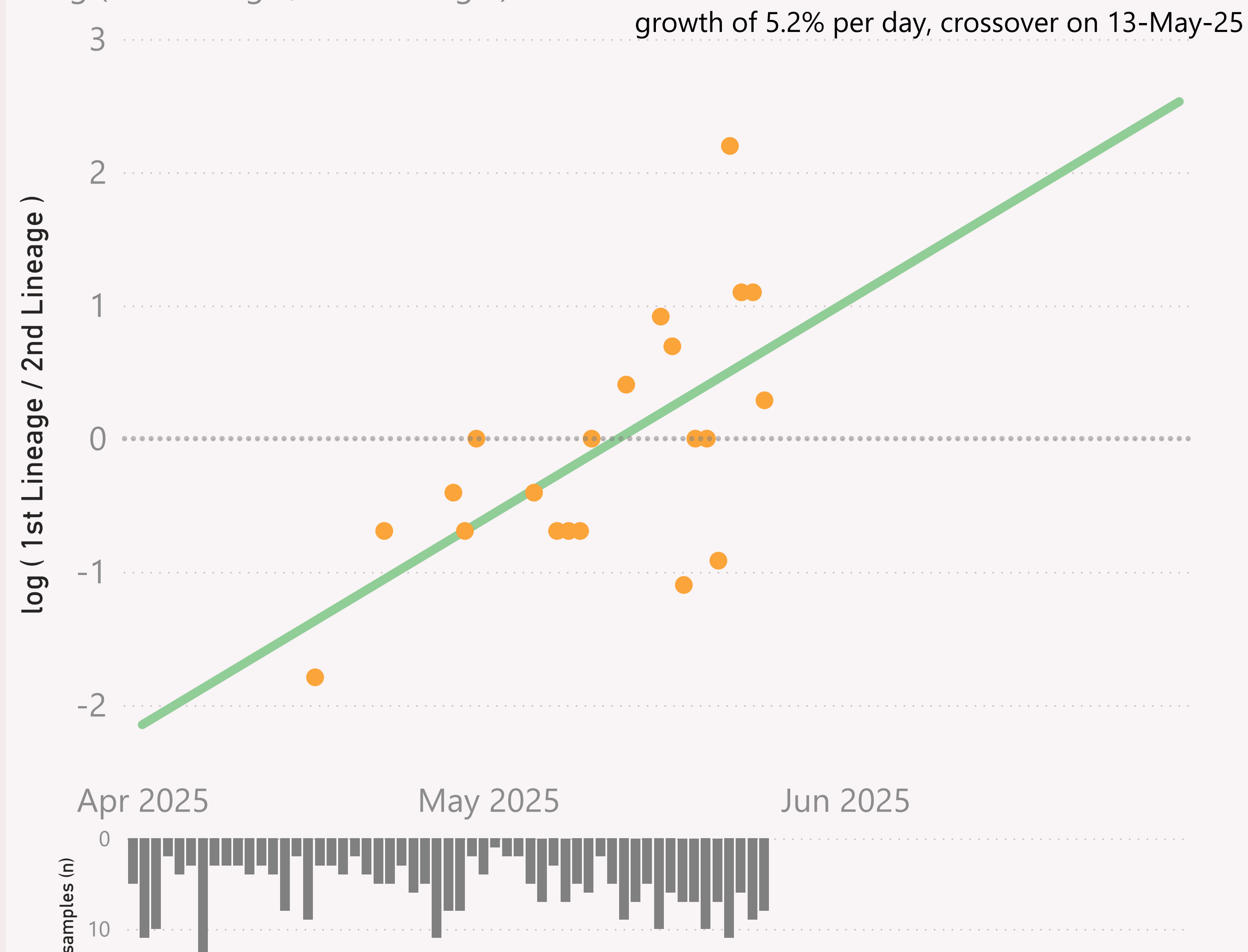
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

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

n=307 sequenced genomes, from 1 April 2025 up to 25 May 2025

## New Zealand - NB.1.8.1.\* Nimbus vs JN.1.\* +DeFLuQE

●  $\log ( 1st \text{ Lineage} / 2nd \text{ Lineage} )$  ● trend



This page compares the relative frequency of 2 selected "L2" Lineages for NZ, over recent months. A challenging "L2" 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 "L2" Lineage is considered to have "crossed over" or taken over dominance from the incumbent Lineage

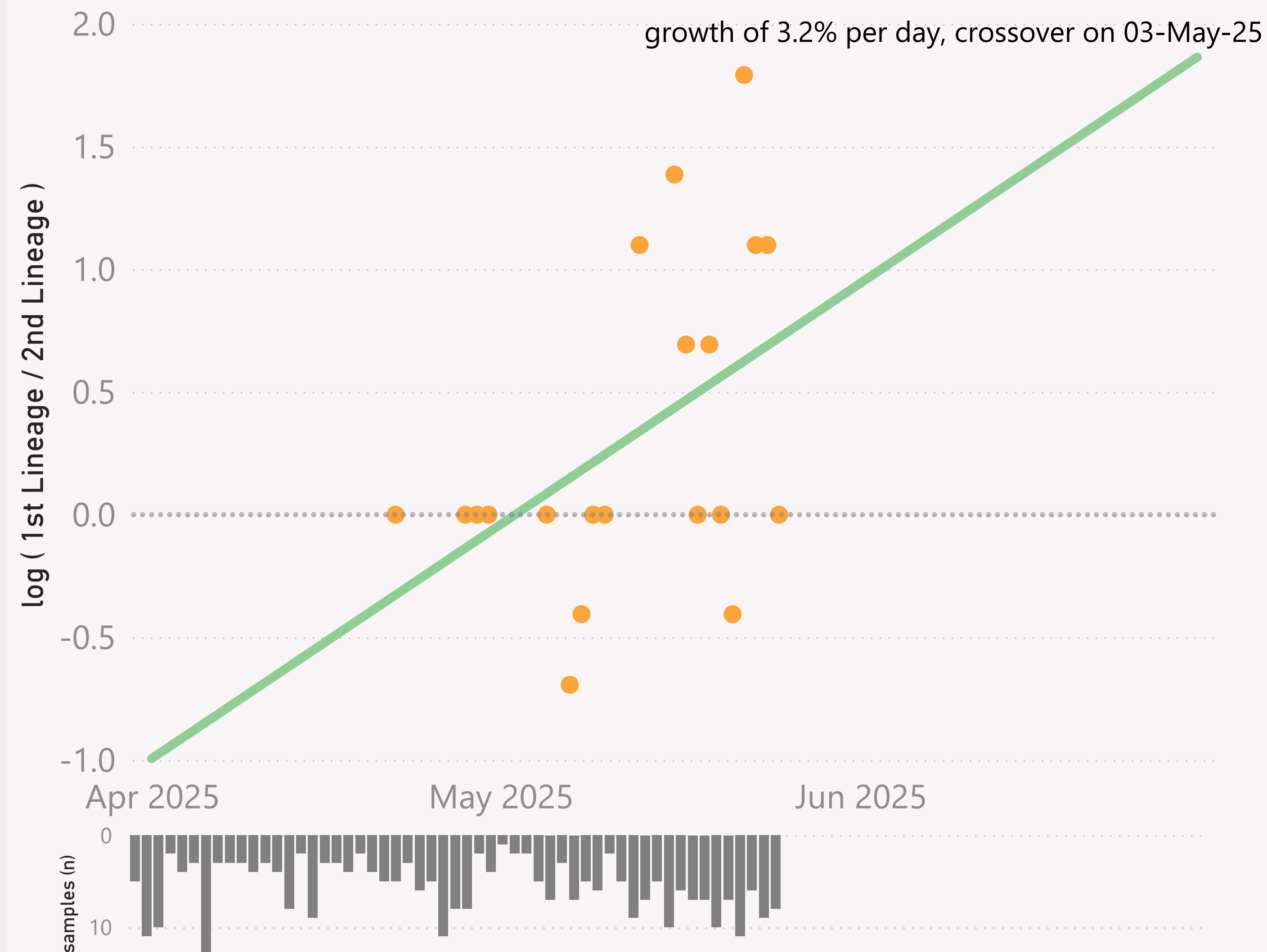
The Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "BA.2.86.\*" group includes BA.2.86 and all it's descendants, e.g. the JN.\* lineages.

The 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.

n=307 sequenced genomes, from 1 April 2025 up to 25 May 2025

## New Zealand - NB.1.8.1 vs MC.10.2.1

●  $\log ( 1\text{st Lineage} / 2\text{nd Lineage} )$  ● trend



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

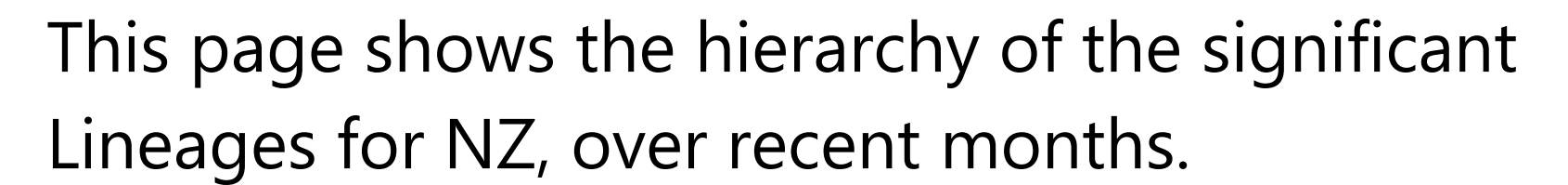
The trend is shown as a green line and expressed as a daily growth % advantage. If the green line crosses over the 0.0 line, the date when that occurred or is predicted to occur will be shown. At that point the challenging Lineage is considered to have "crossed over" or taken over dominance from the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



## New Zealand











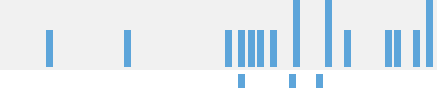



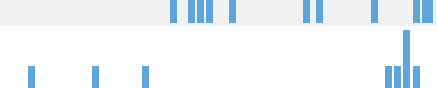







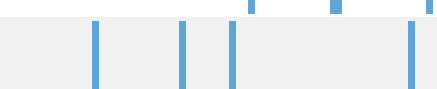
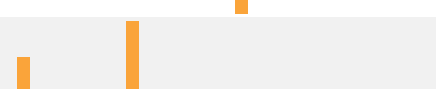


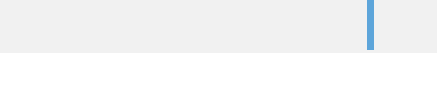
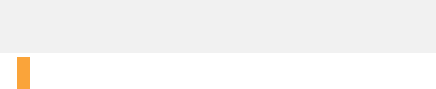



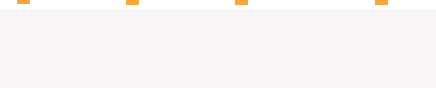






The vertical height of each bar segment represents the relative volume of all the samples of that specific Lineage, as well as all it's descendants.

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
<div><div></div>New Zealand</div>	327	25/05/2025		20/05/2025	
Auckland	99	25/05/2025		20/05/2025	
Counties Manukau	61	25/05/2025		20/05/2025	
Hutt Valley	32	21/05/2025		20/05/2025	
Southern	25	23/05/2025		20/05/2025	
Waikato	25	25/05/2025		20/05/2025	
Northland	22	22/05/2025		20/05/2025	
Waitemata	20	25/05/2025		20/05/2025	
Hawkes Bay	11	23/05/2025		20/05/2025	
Taranaki	7	21/05/2025		20/05/2025	
Capital and Coast	5	13/05/2025		20/05/2025	
MidCentral	5	18/05/2025		20/05/2025	
Wairarapa	5	25/05/2025		20/05/2025	
Bay of Plenty	4	21/05/2025		20/05/2025	
Lakes	4	09/05/2025		20/05/2025	
South Canterbury	1	12/05/2025		20/05/2025	
Whanganui	1	06/04/2025		21/04/2025	
Total	327	25/05/2025		20/05/2025	

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