

The RioTinto logo is a red rectangle with the word "RioTinto" in white, sans-serif font. The background of the entire slide is a photograph of a mountainous landscape with rocky terrain, patches of snow, and a small wooden building. A cable car or ropeway system is visible, with cables and a structure extending across the scene.

RioTinto

Nechako Reservoir / River Information Sharing –

WEI

5 December 2024

Prepared by Alec Mercier

Precipitation and Inflows - Last 12 months

Nechako Watershed Inflows and Precipitation

Period (2023-2024)	Observed Inflows			Observed Precipitation		
	(cms)	(%LTA 1957-2023)	(%LTA 1994-2023)	(mm)	(%LTA 1957-2023)*	(%LTA 1994-2023)
November, 2023	65	41%	40%	79	65%	64%
December, 2023	75	66%	70%	97	87%	102%
January, 2024	75	76%	77%	71	72%	72%
February, 2024	79	94%	96%	34	49%	49%
March, 2024	61	84%	79%	40	71%	59%
April, 2024	102	71%	58%	32	74%	65%
May, 2024	263	59%	56%	45	107%	105%
June, 2024	329	65%	67%	71	125%	137%
July, 2024	202	63%	67%	16	29%	28%
August, 2024	84	50%	56%	33	58%	63%
September, 2024	119	95%	100%	102	140%	136%
October, 2024	221	144%	149%	102	96%	96%
Winter (Nov-Mar)	71	67%	67%	321	70%	71%
Spring & Summer (Apr-Aug)	196	62%	62%	197	78%	78%
Fall (Sept-Oct) (to date)	170	122%	127%	204	114%	112%
Year 2023-2024 (to date)	139	70%	70%	722	81%	82%

* Watershed precipitation data before the 1990s was estimated from a more limited number of weather stations in operation.

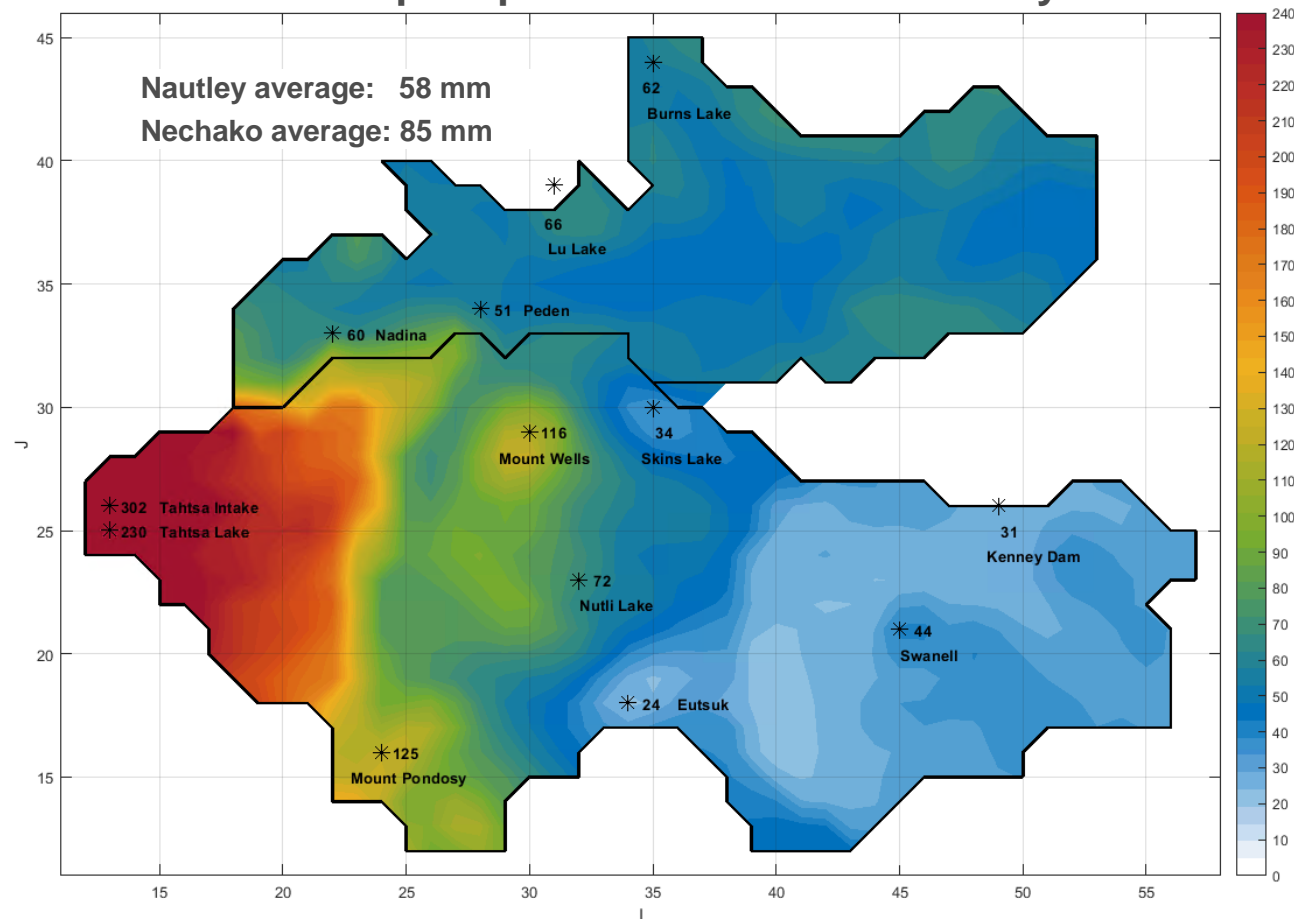
Nechako Watershed Inflows and Precipitation

Period (2024-2025)	Observed Inflows			Observed Precipitation		
	(cms)	(%LTA 1957-2024)	(%LTA 1995-2024)	(mm)	(%LTA 1957-2024)*	(%LTA 1995-2024)
November, 2024	172	110%	107%	96	79%	77%
December, 2024	137	113%	122%	5	29%	45%
Winter (Nov-Mar)	167	110%	109%	101	73%	75%
Year 2024-2025 (to date)	167	110%	109%	101	73%	75%

* Watershed precipitation data before the 1990s was estimated from a more limited number of weather stations in operation.

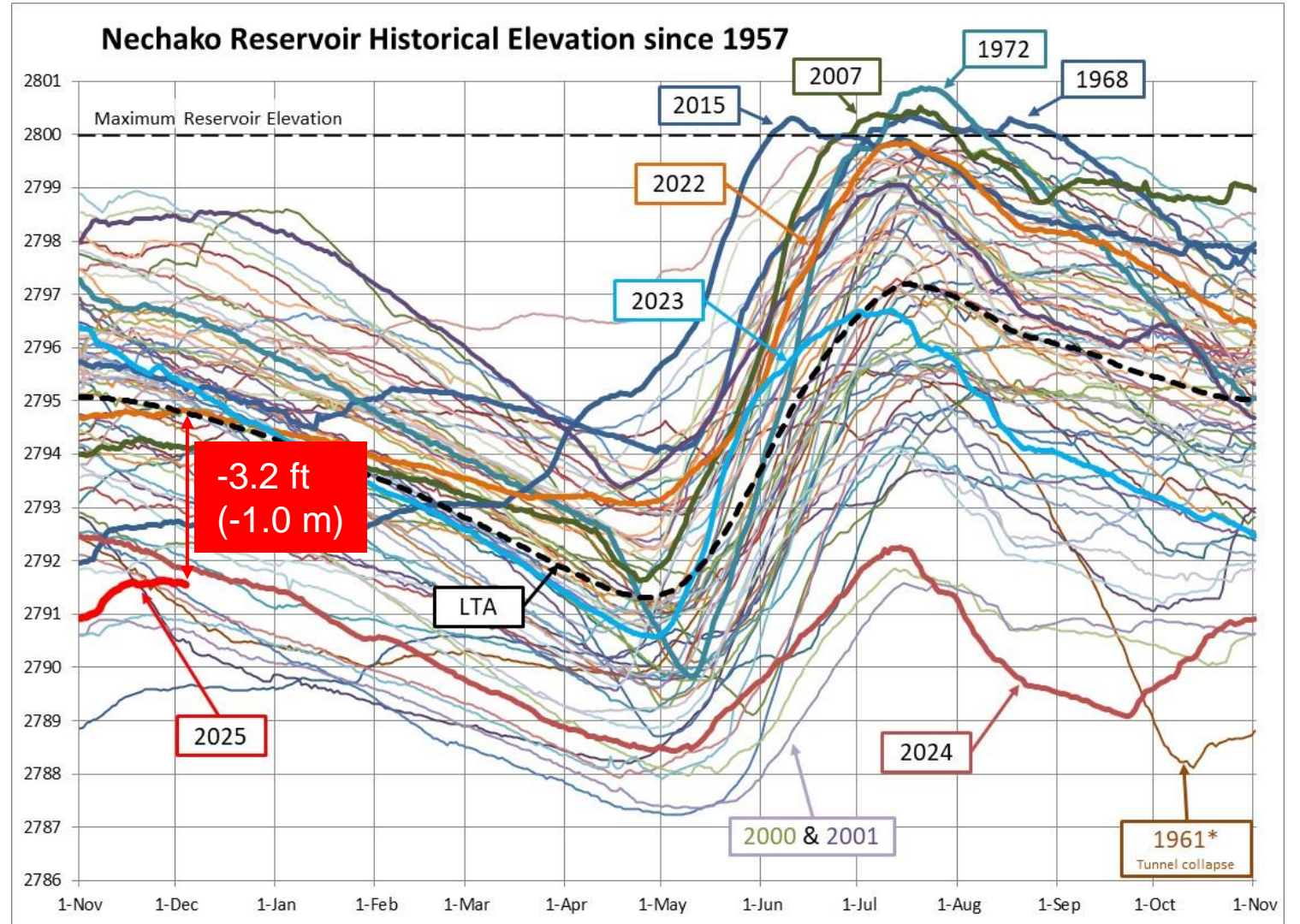
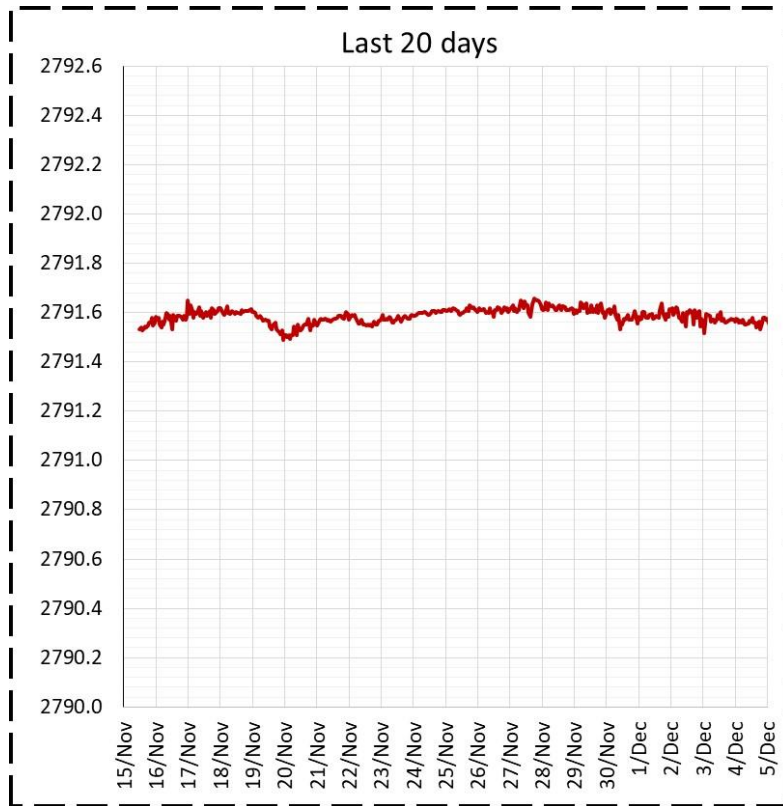
Weather - Last 30 days

Total precipitation over the last 30 days

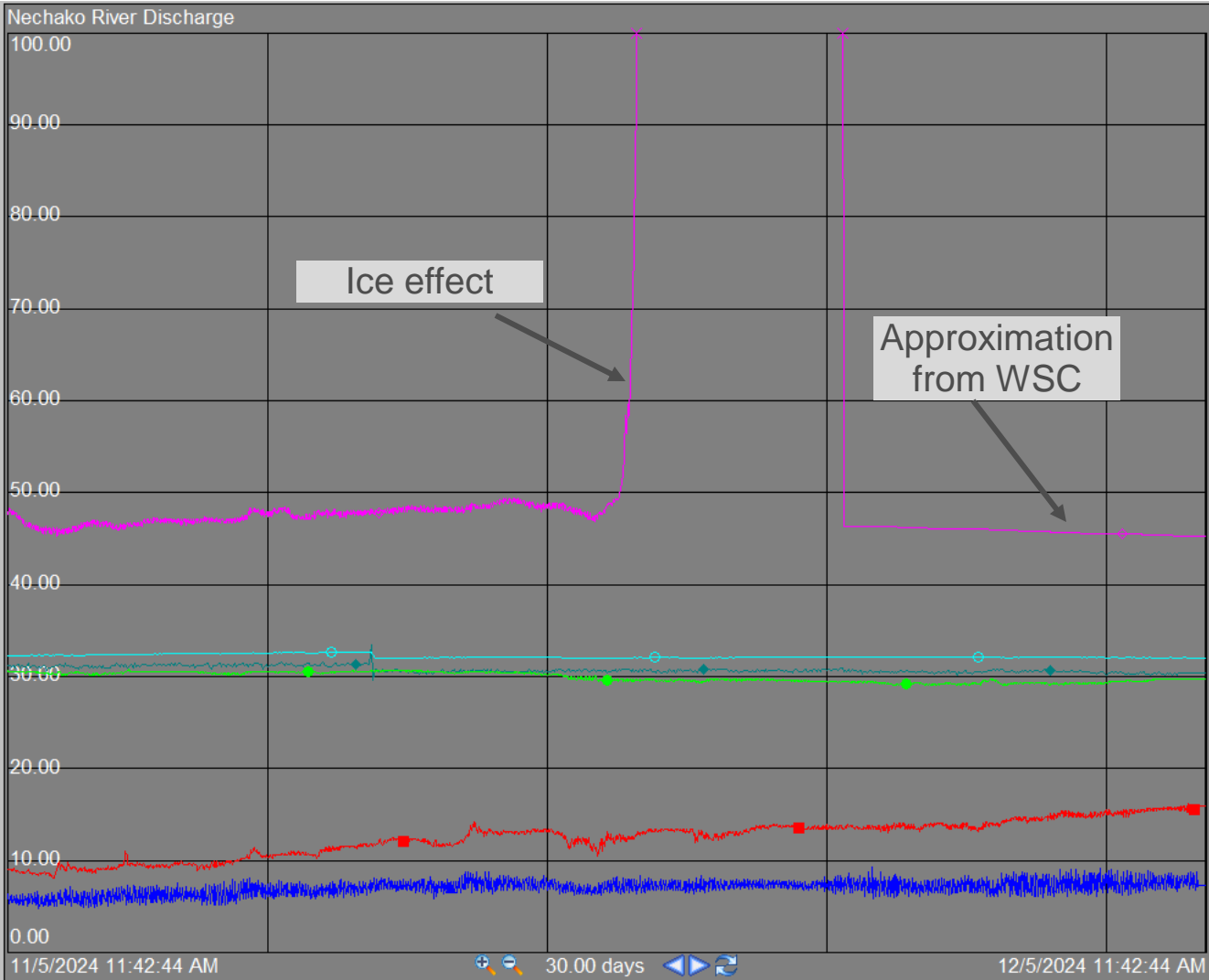


Reservoir Elevation

Current reservoir level
2791.56 ft (Approx)



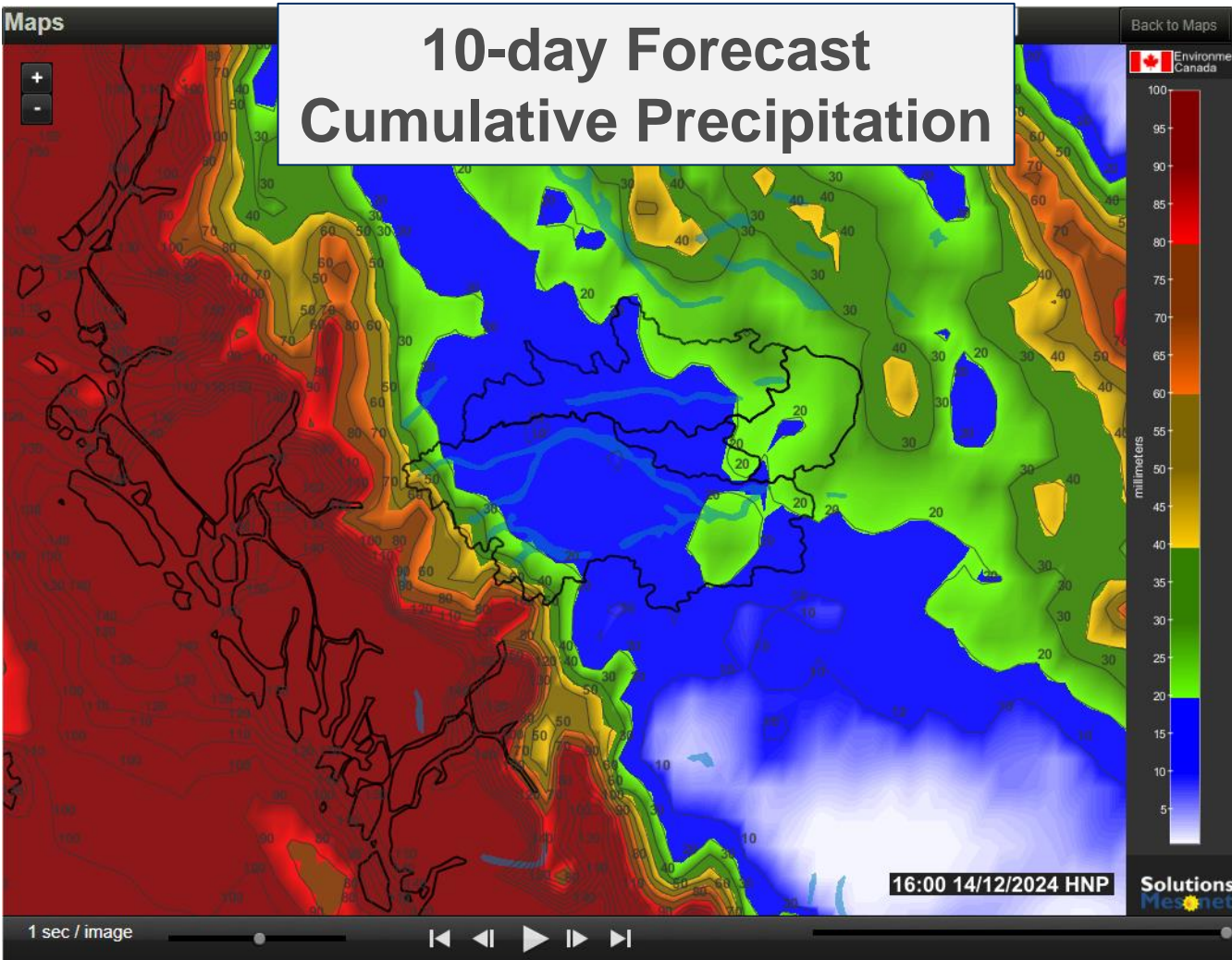
Flows - Last 30 days



Current values (m³/s)	
Vanderhoof	45
Skins Lake	32
Cheslatta Falls	30
Nautley	16
Stellako	7

Precipitation forecast

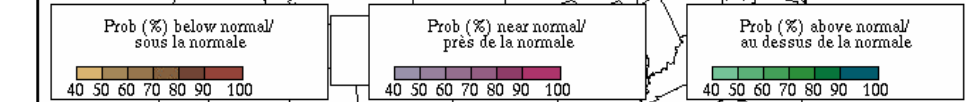
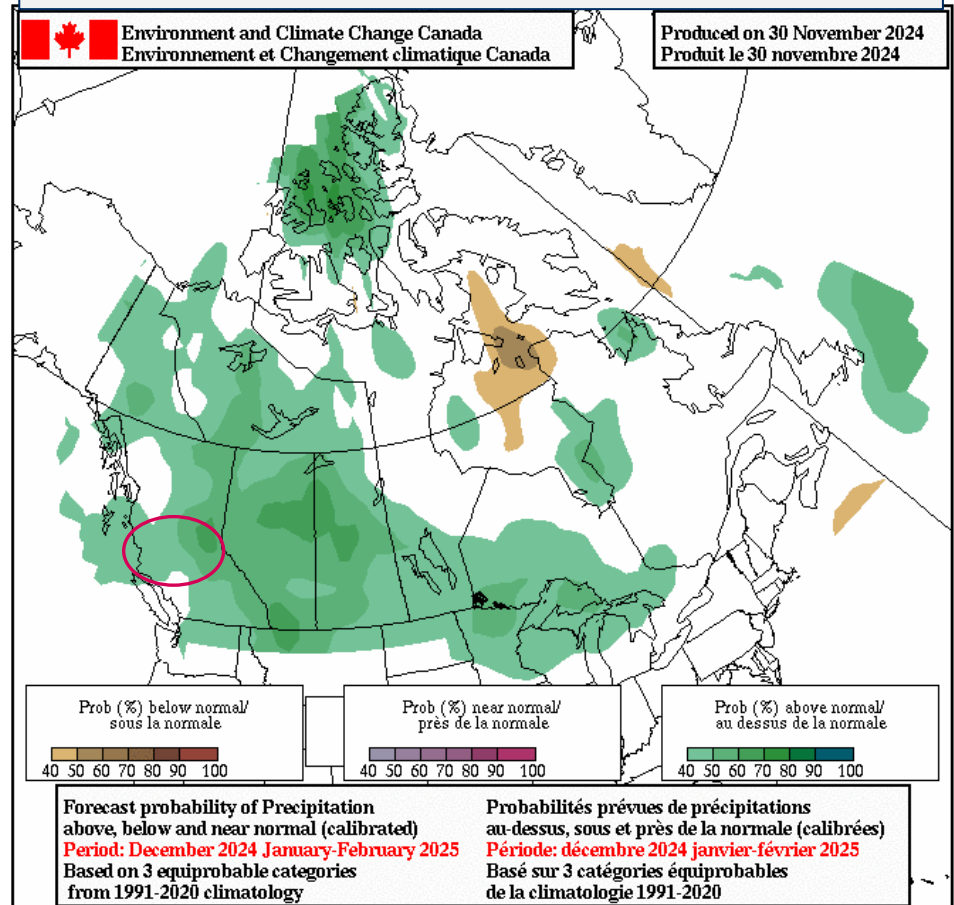
10-day Forecast Cumulative Precipitation



Nechako Reservoir watershed area-average = 20 mm

Seasonal Forecast

Probability of Precipitation above, below and near normal

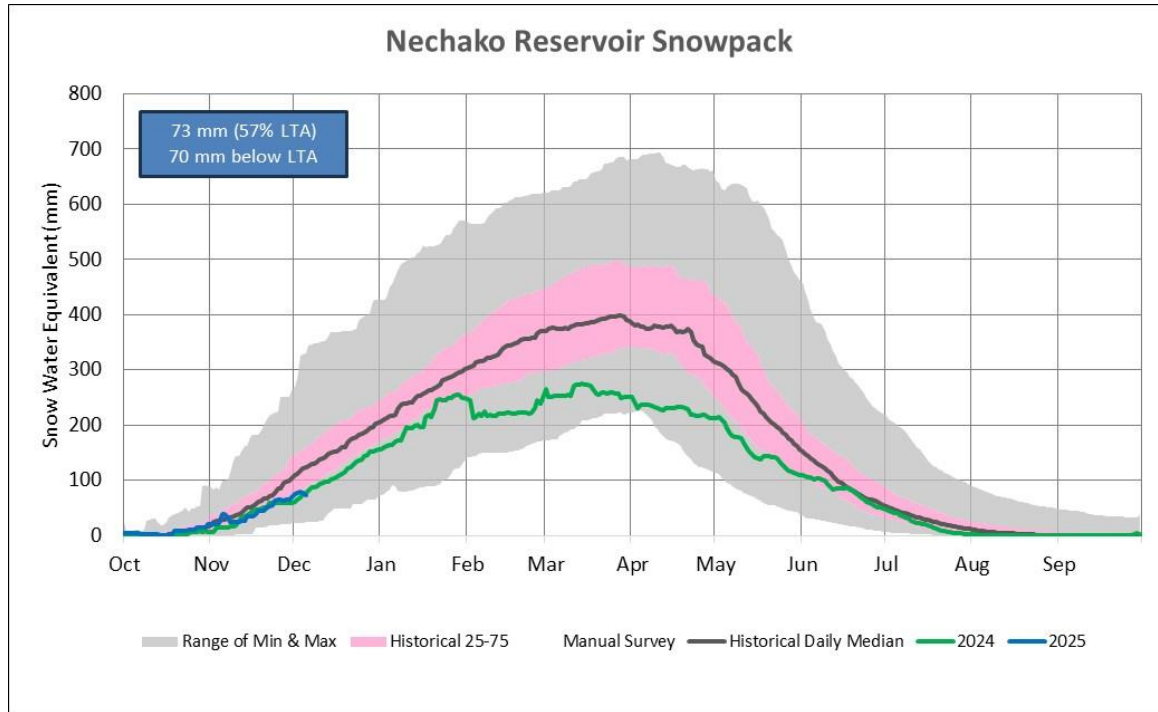


Forecast probability of Precipitation above, below and near normal (calibrated)
Period: December 2024 January-February 2025
 Based on 3 equiprobable categories from 1991-2020 climatology

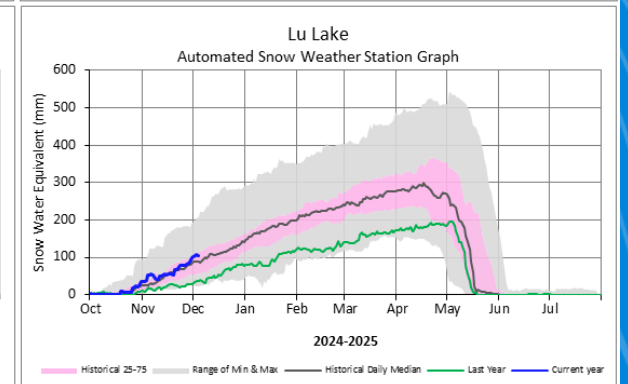
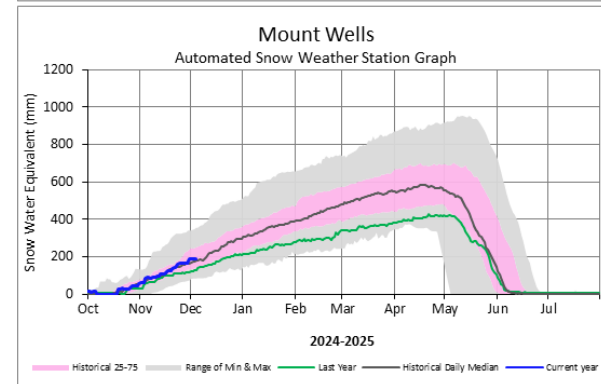
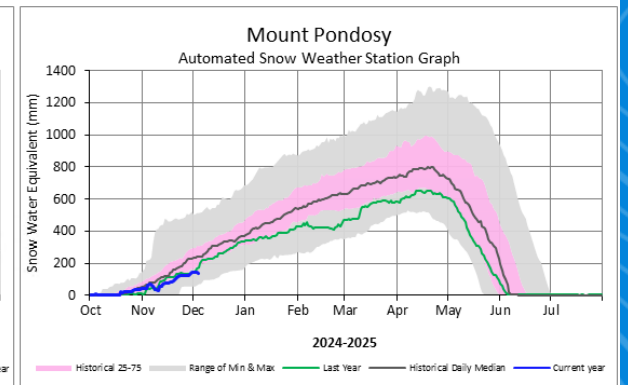
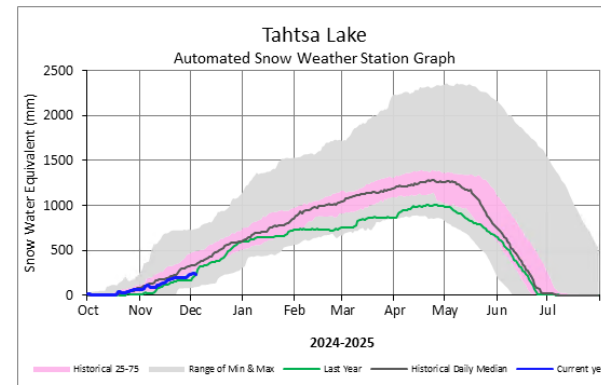
Probabilités prévues de précipitations au-dessus, sous et près de la normale (calibrées)
Période: décembre 2024 janvier-février 2025
 Basé sur 3 catégories équiprobables de la climatologie 1991-2020

Likelihood of above normal precipitation in Jan-Feb

Current snowpack



73 mm (57% LTA; 56th / 66)



Station	Current Value (mm)	LTA* (mm)	%LTA*	Percentile Rank*
Tahtsa Lake	229	385	60%	8%
Mount Pondosy	138	248	56%	12%
Mount Wells	189	201	94%	52%

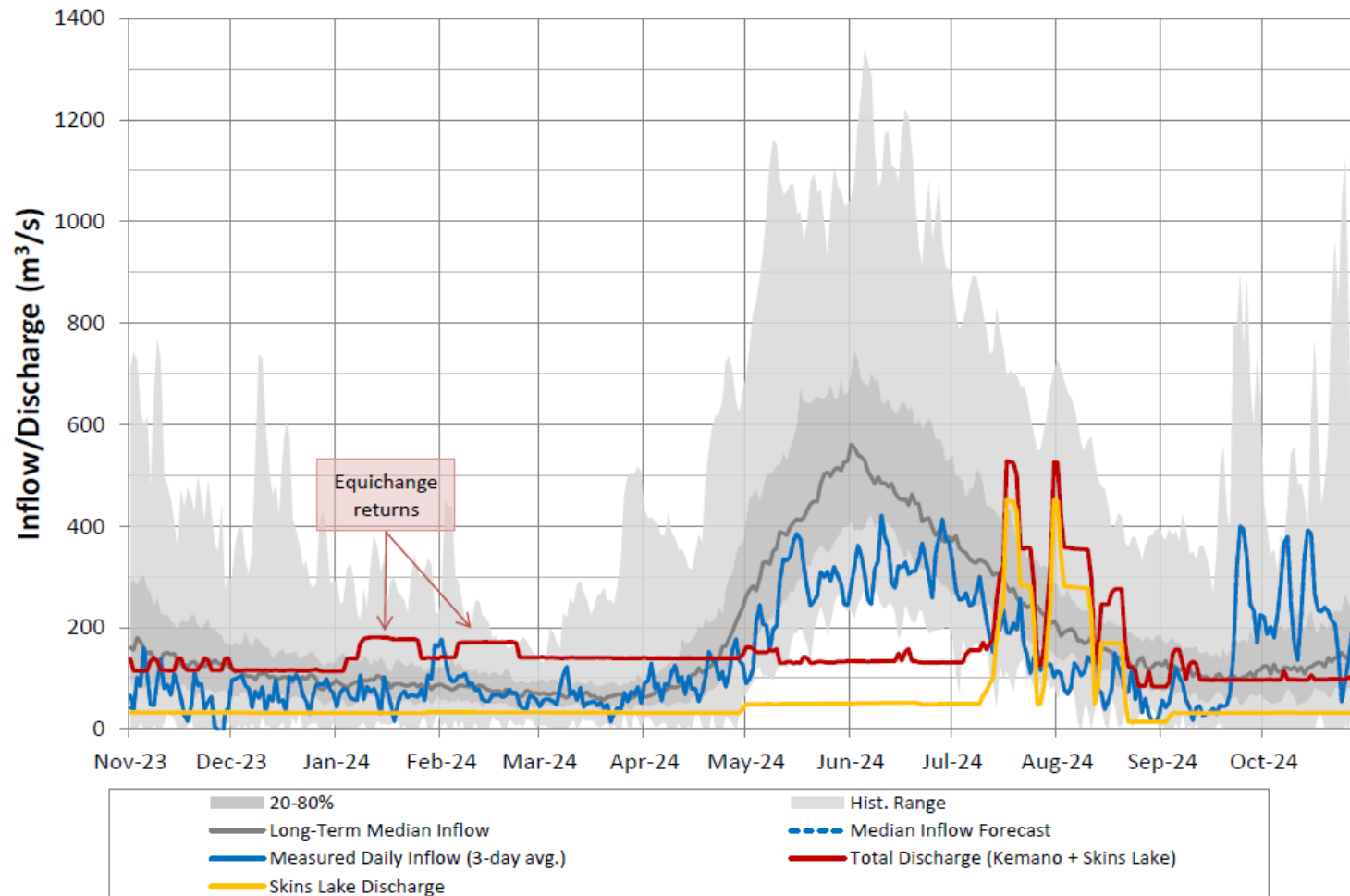
* (1992-2024)

Station	Current Value	%LTA*
Lu Lake	106	118%

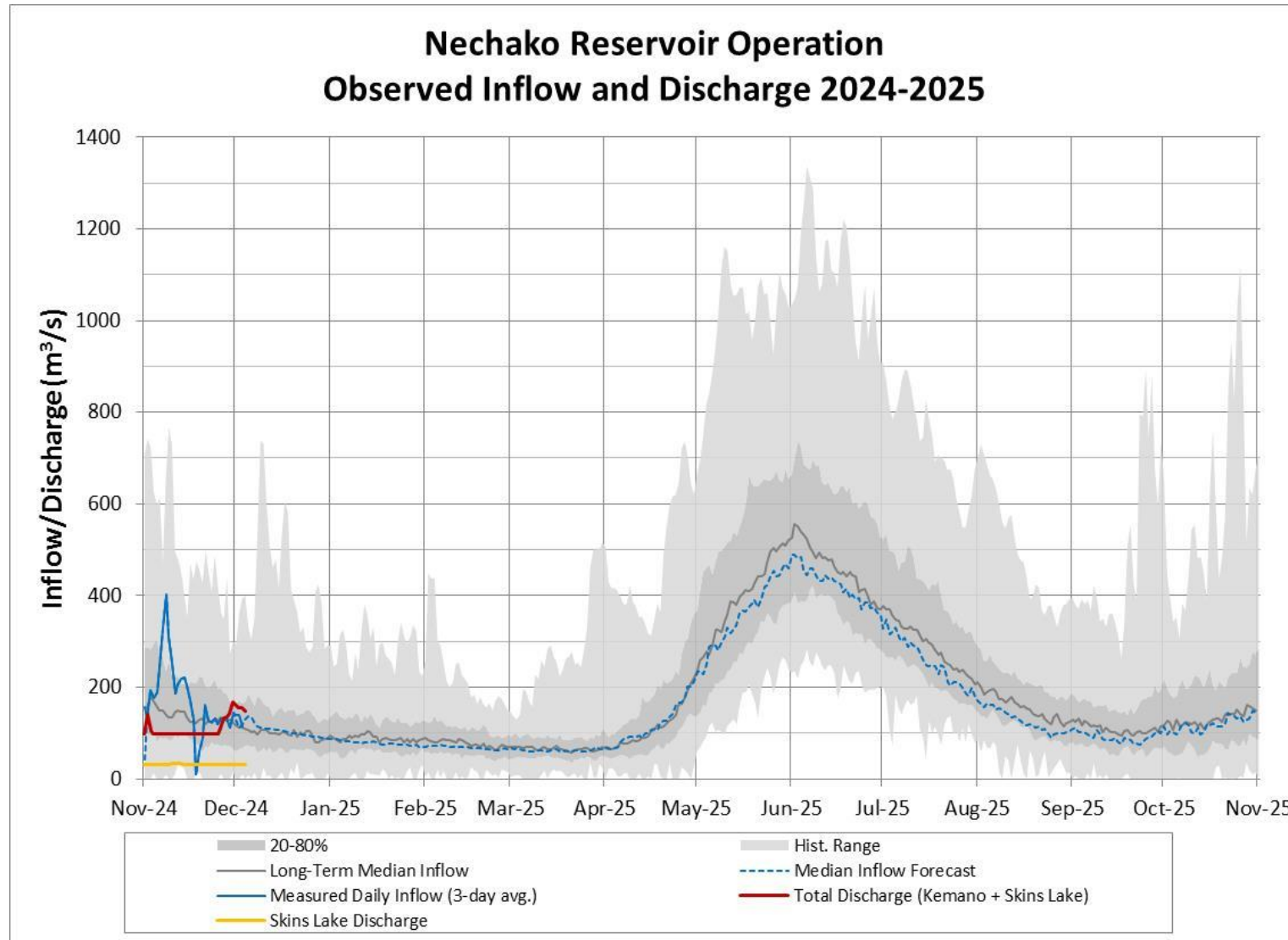
* (1997-2024)

Observed Inflows & Discharge vs Historical

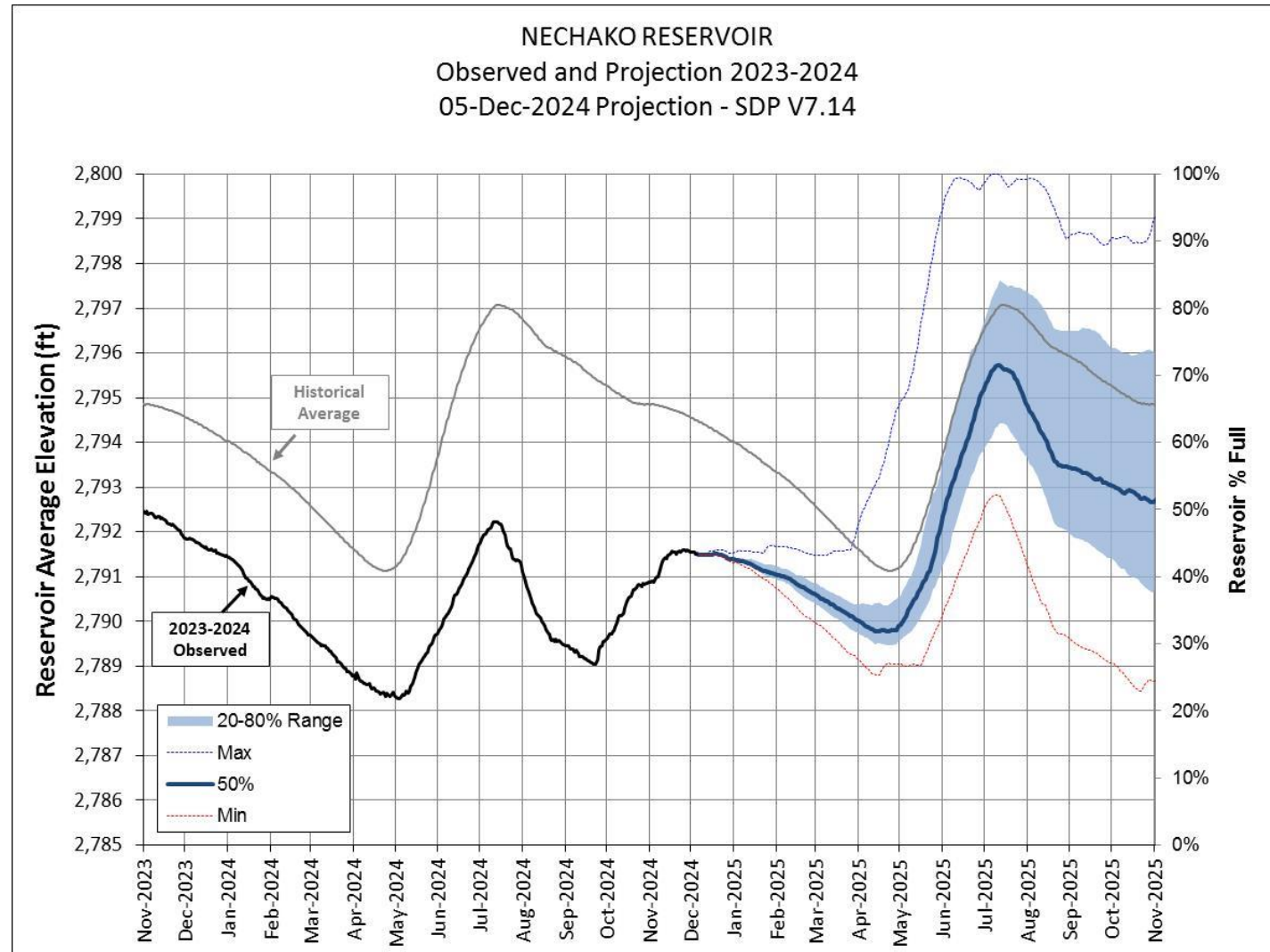
**Nechako Reservoir Operation
Observed Inflow and Discharge 2023-2024**



Observed Inflows & Discharge vs Historical

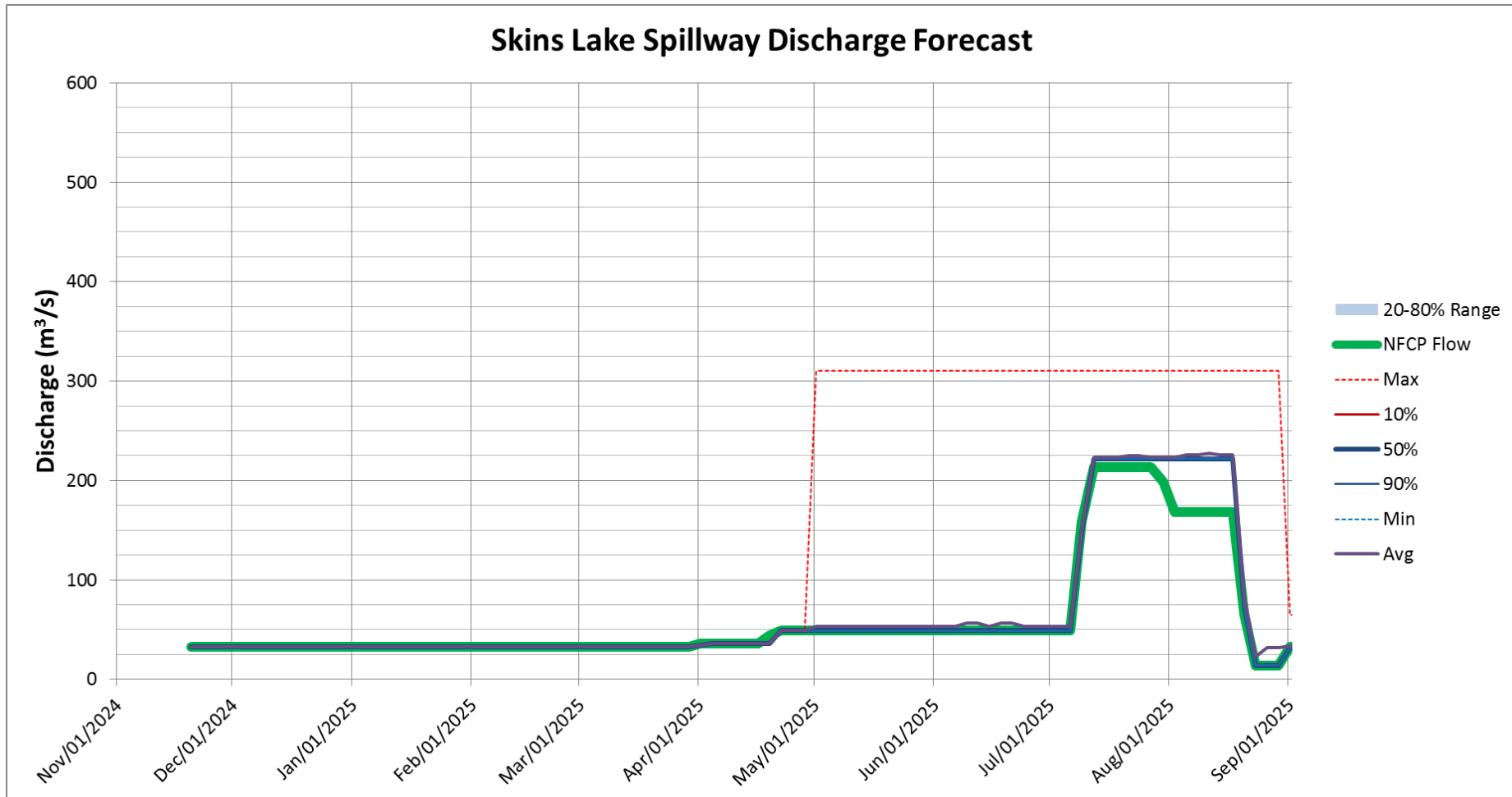


Reservoir Level Projection

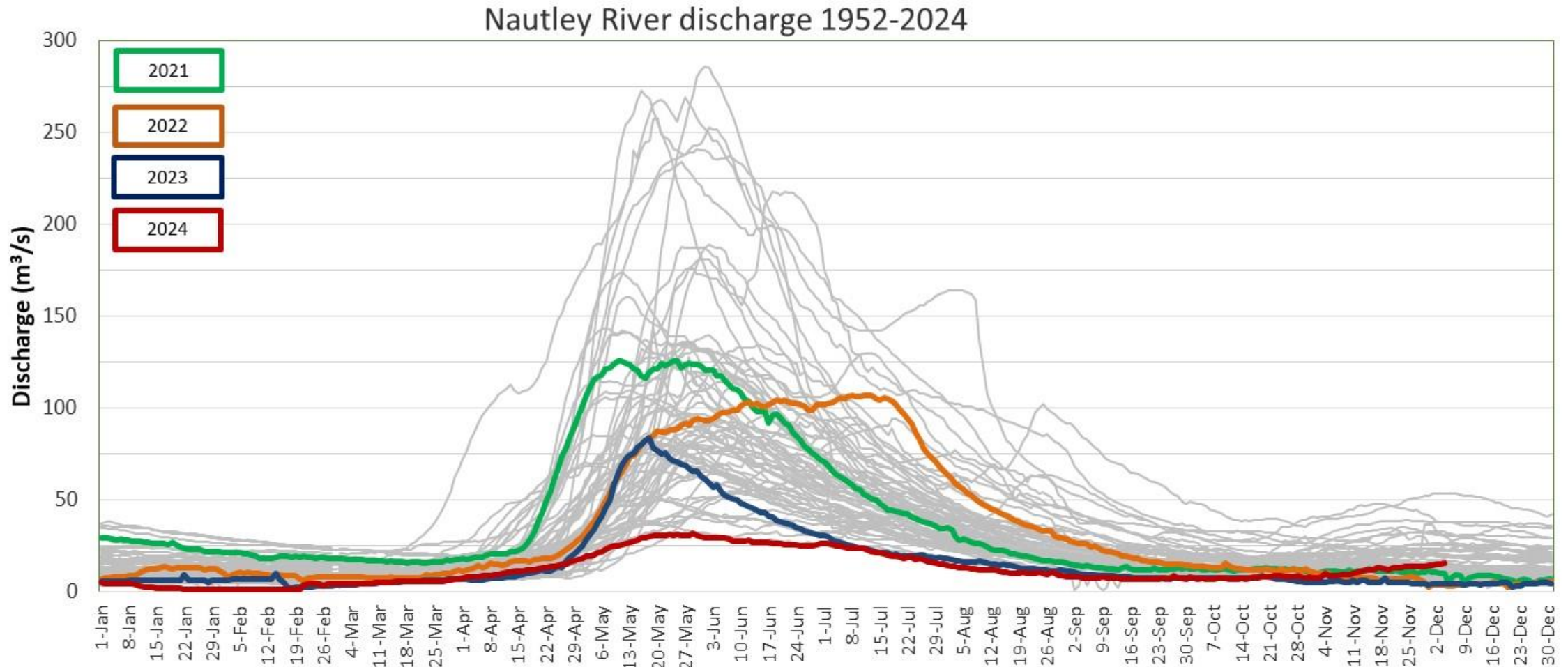


Skins Lake Spillway Release - Forecast

- Current release = 32 m³/s



Nautley River Flows



Feedback & Reflections

