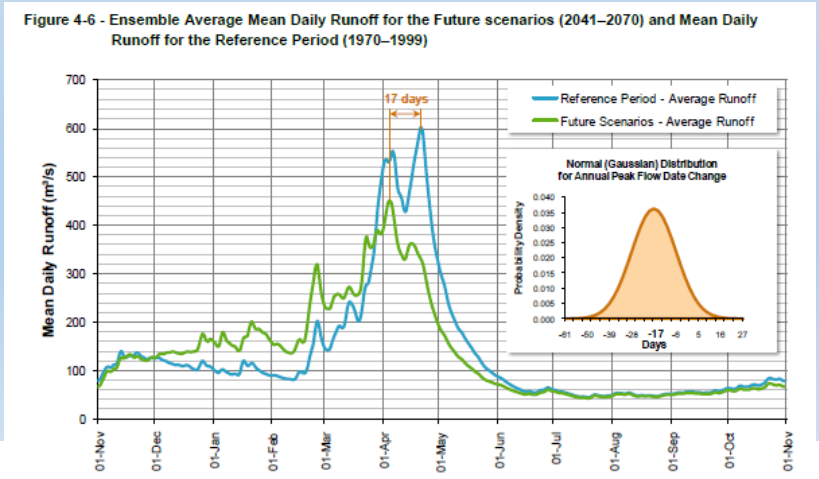
Water Management

Parks Canada Parcs Canada

Competing Interests and Climate Change

- In the event of wet conditions:
- Public Safety can be endangered with increased water levels/flows.
- Resulting high flows can disrupt navigation along the waterway.
- High flows allow fish to spawn in elevated areas prone to declines.
- Excess spill at many hydro generating stations.



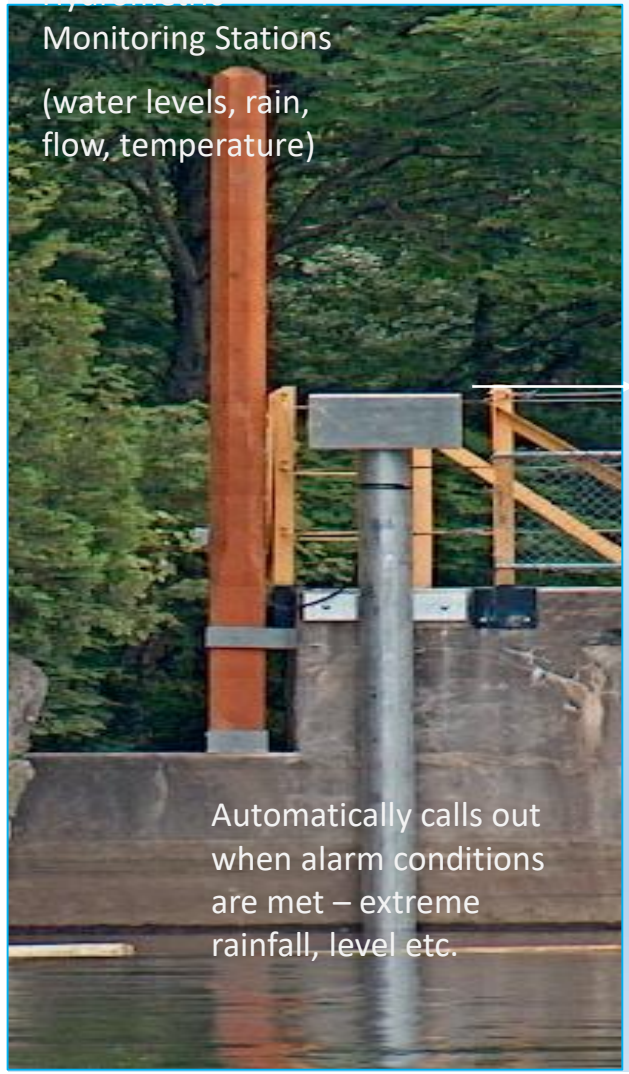
Parks Canada Parcs Canada

Competing Interests

- In the event of dry conditions:

- Public Health is not initially endangered,
- Water quality can be endangered.
- Navigation can be threatened as lake levels decline
- Fish spawn in shallow areas are in danger of being left dry.
- Reservoir lake levels drop more than normal.
- Hydro generation is diminished as water flow is reduced.

Daily Routine



Daily email to water managers

Local Servers run Automated Scanning Script

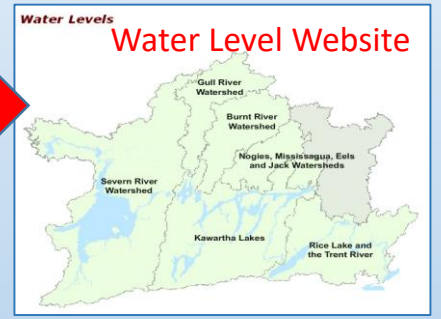
Electronic database compiles automated and manual data for use by the Water Management Team

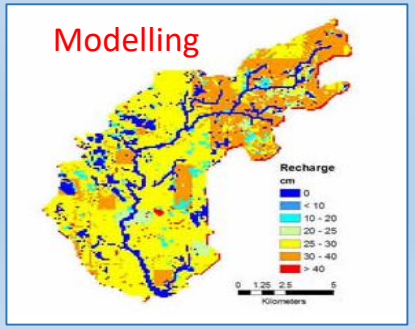
Communicate information to CA's, MNRF and EMS

Ontario
Ministry of Natural Resources

FLOOD FORECASTING
Normal

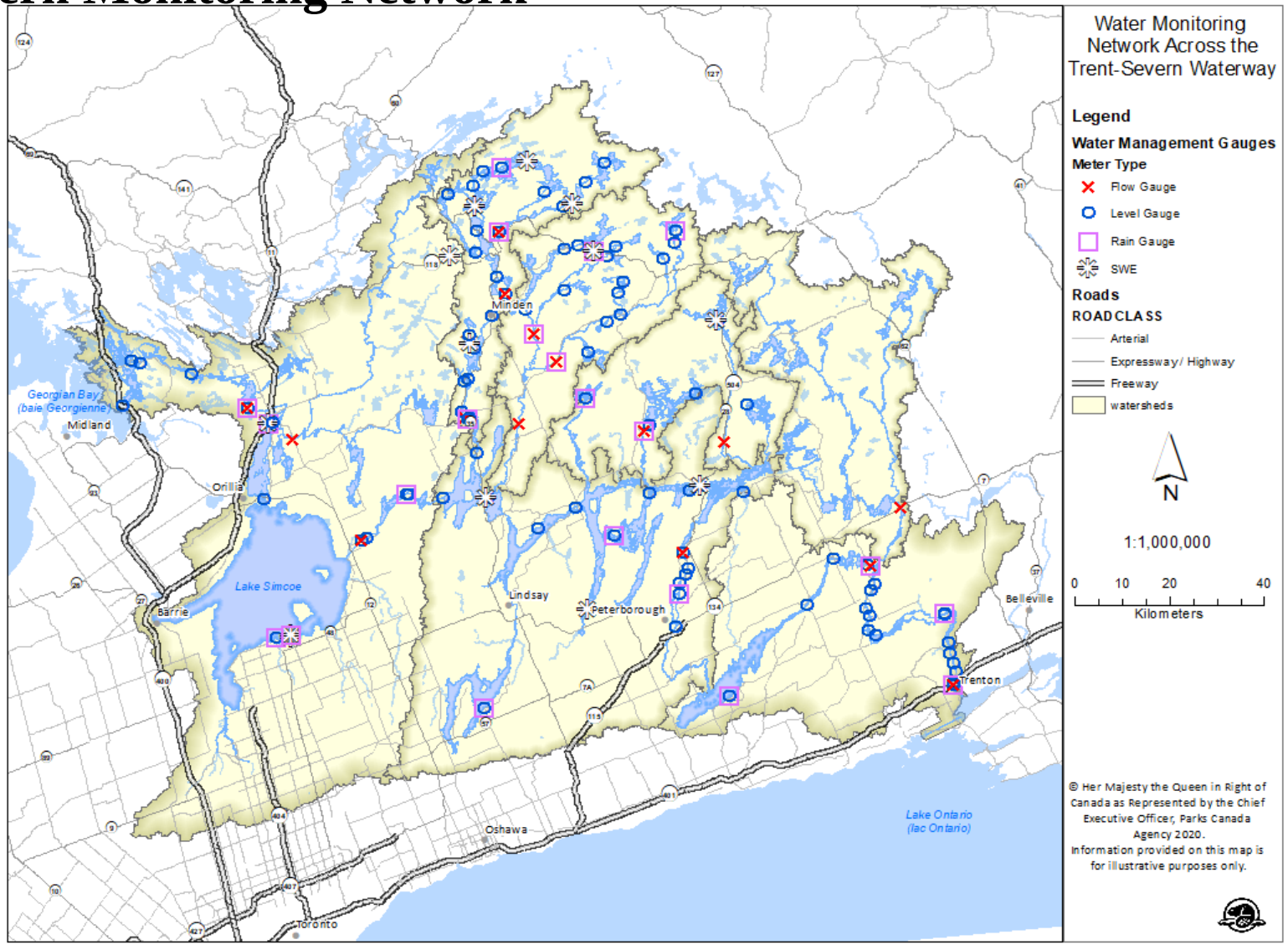
StopLog Operations





Parks Canada Parcs Canada

Trent-Severn Monitoring Network

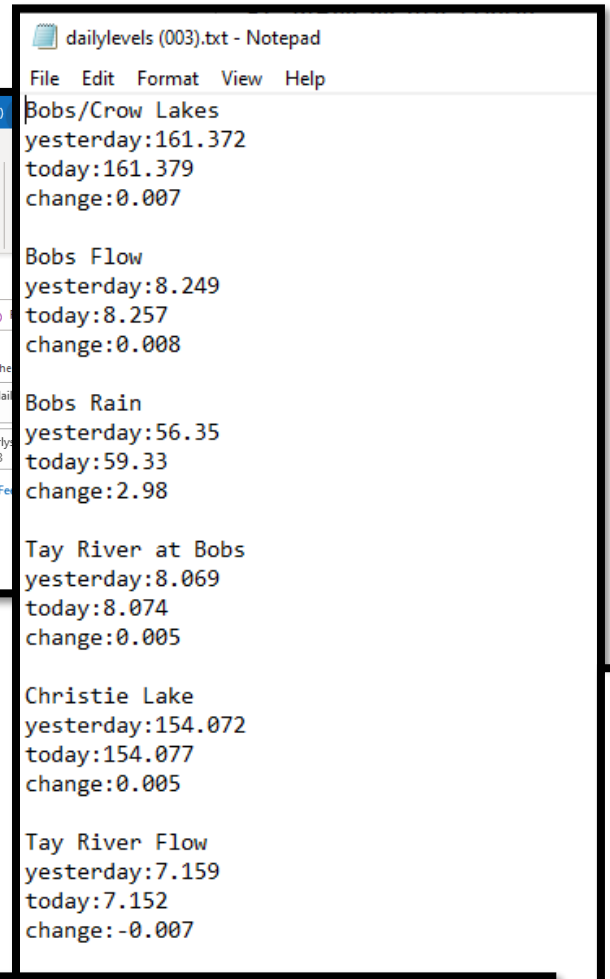


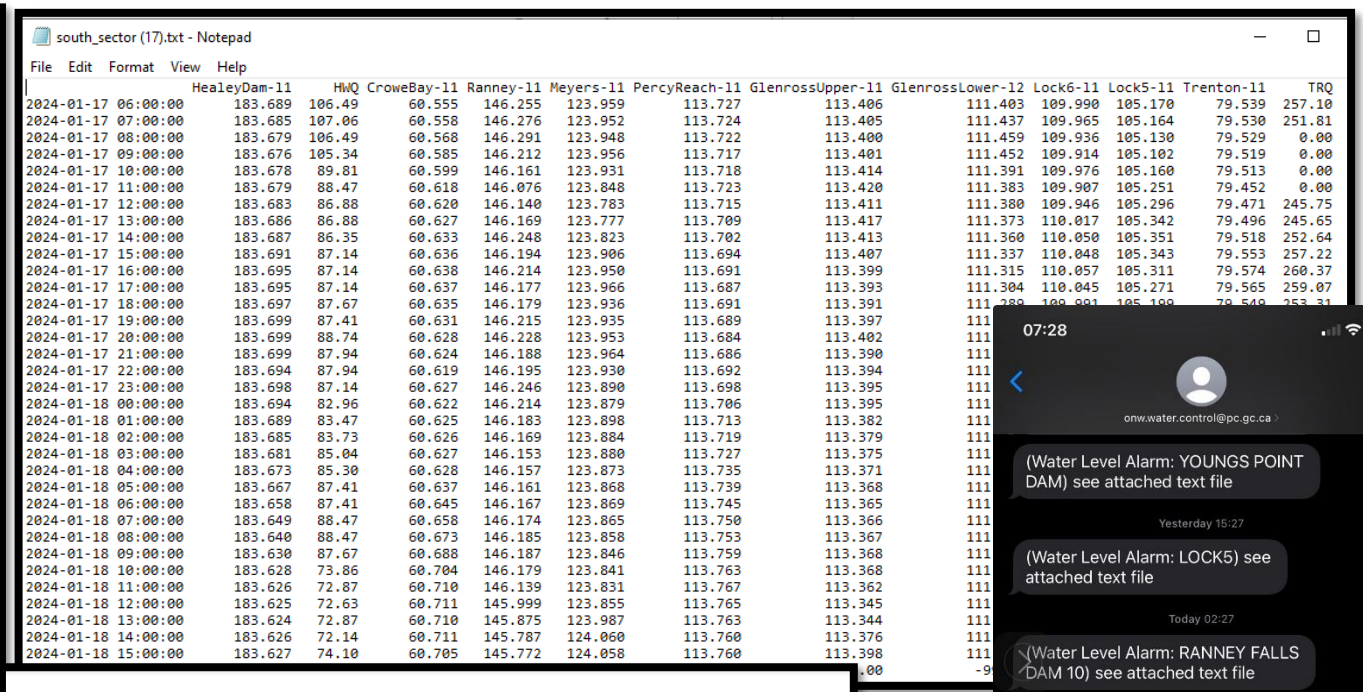
Parks Canada Parcs Canada

Daily operating cycle 24/7-365

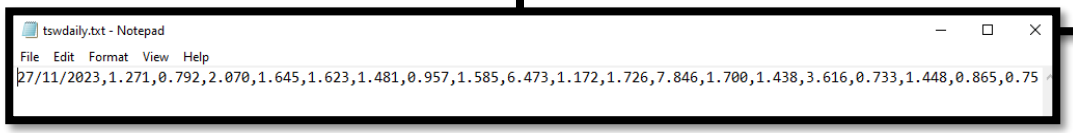
Operational real-time data and alarm

Daily Email

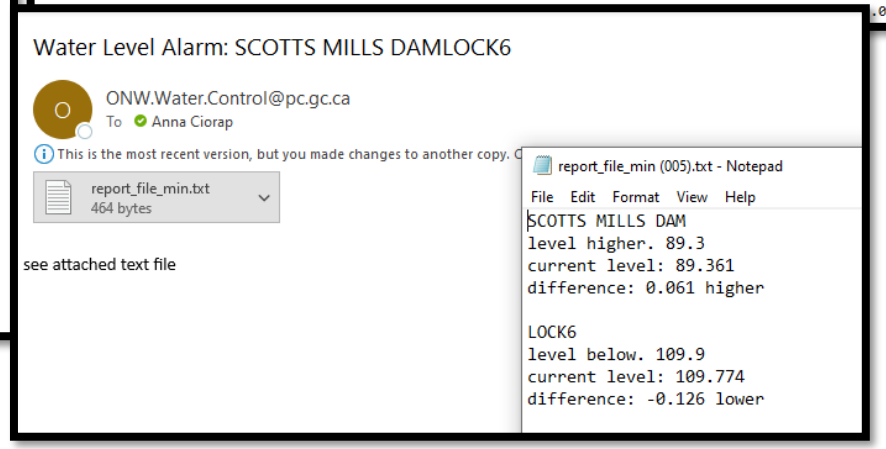


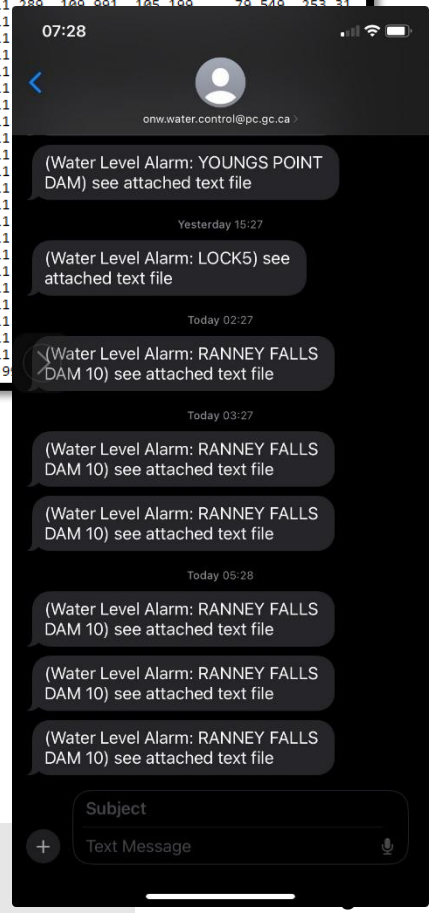


24 hour change



Spreadsheet Management





Inflow Forecasting

Winter 2025

Have we had more snow in Ontario this winter or does it just feel that way? The answer may surprise you

Environment Canada provides some insight into what we're experiencing in Ontario through the winter of 2024-25.

By Dominik Kurek Insidehaltoncom

Tuesday, February 11, 2025 | 1 min to read

Article was updated Feb 13, 2025

JOIN THE CONVERSATION

CANADA

Storm buries parts of Ontario under nearly a metre of snow, thousands without power

Spring 2025

Power outages persist in hard-hit areas after Ontario ice storm

THE CANADIAN PRESS
PUBLISHED APRIL 1, 2025

Broken tree limbs lie scattered on the grounds of Codrington Public School after an ice storm in Barrie, Ont.,

Spring storm brings heavy rair localized flooding to parts of southern Ontario

Overnight storms dumped as much as 75 millimetres of rain in some areas

By The Canadian Press | April 3, 2025 | Last updated on April 3, 2025

2 MIN READ

Summer 2025

Canada's 2025 summer forecast spotlights heat dome and ring of fire - The

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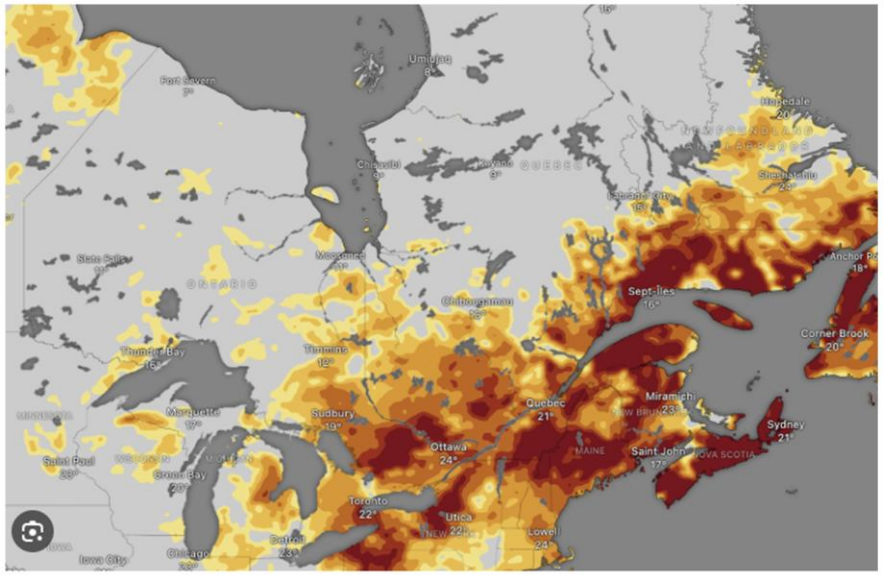

Canada's 2025 wildfire season a wake-up call—more populated areas are under threat | The Pointer

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orest Fires in Areas Around Haliburton County - August 11, 2025 - Township of

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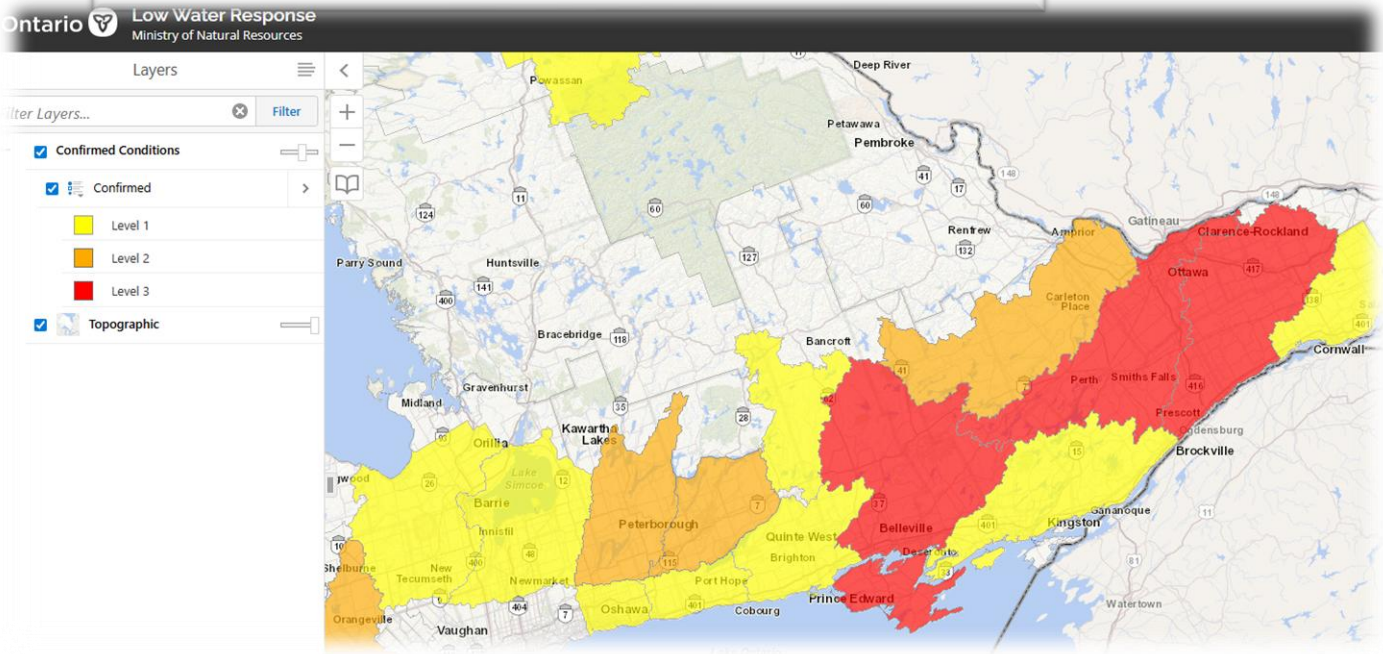
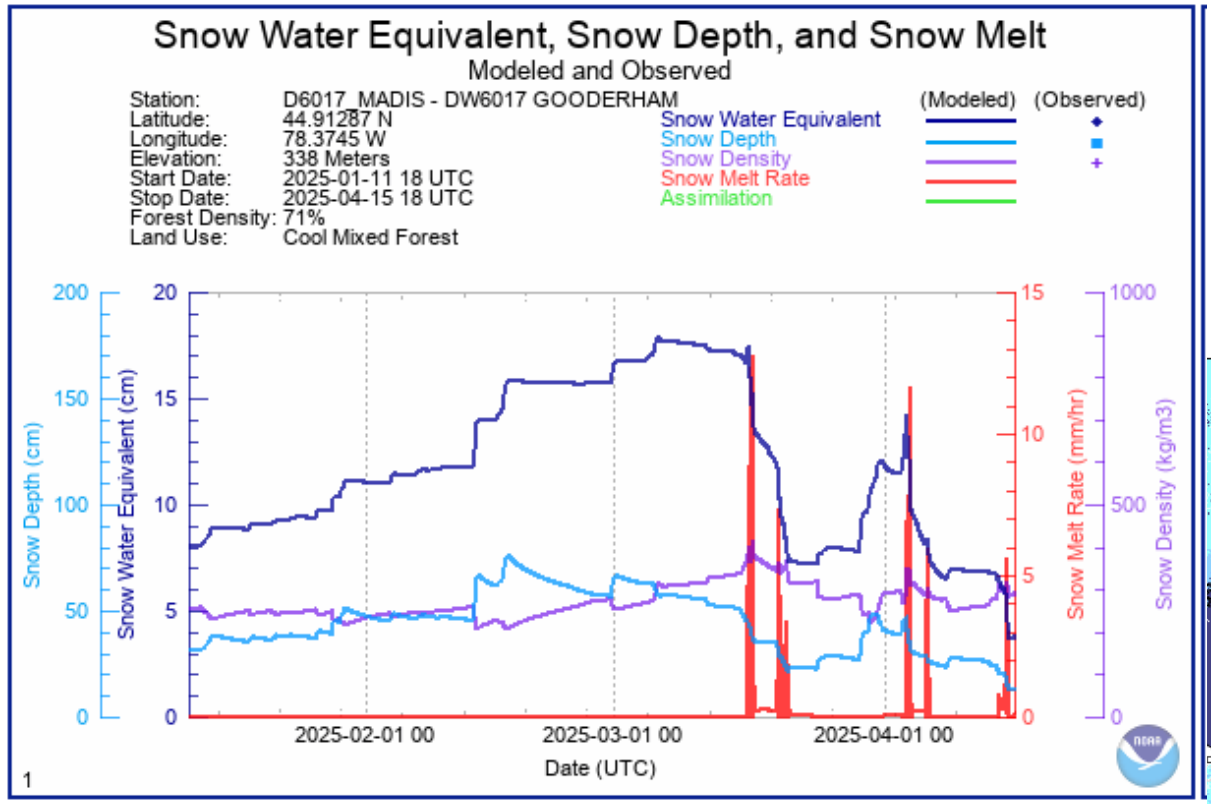
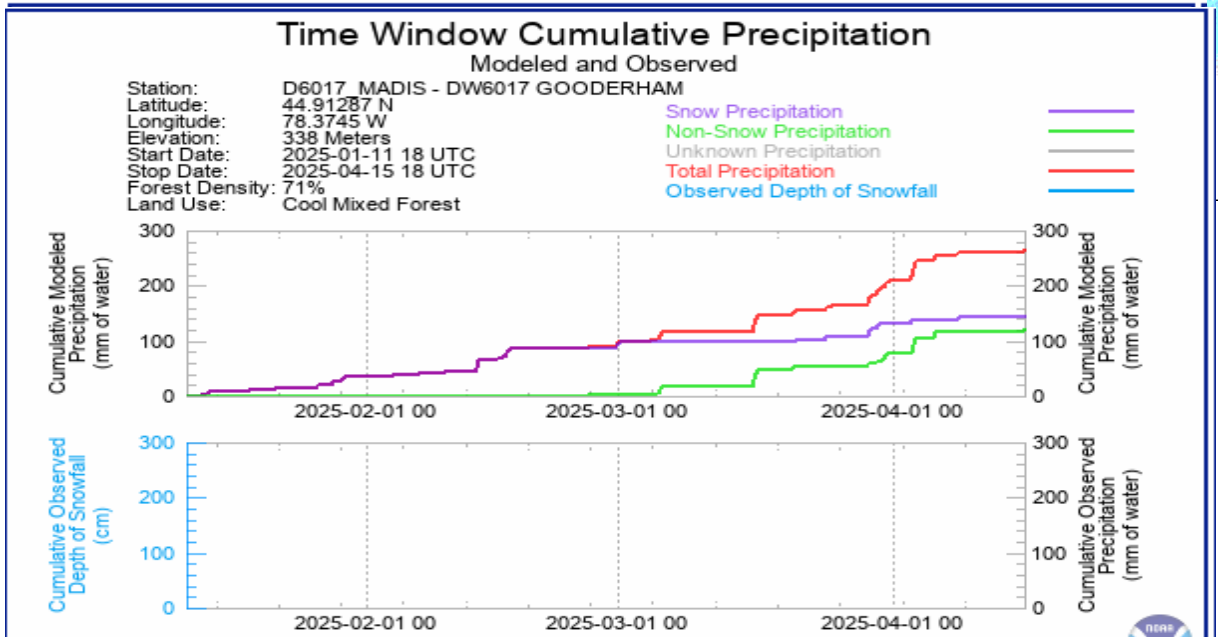
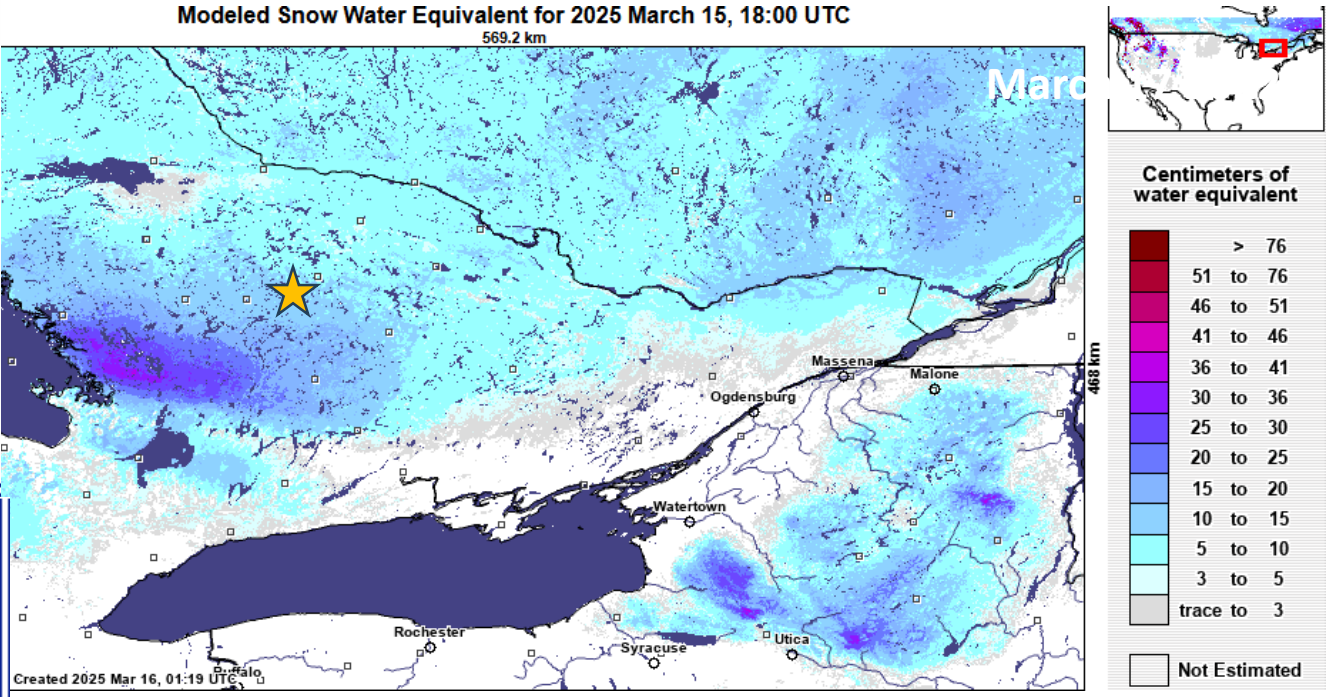


Snow Cover Distribution and Peak Values

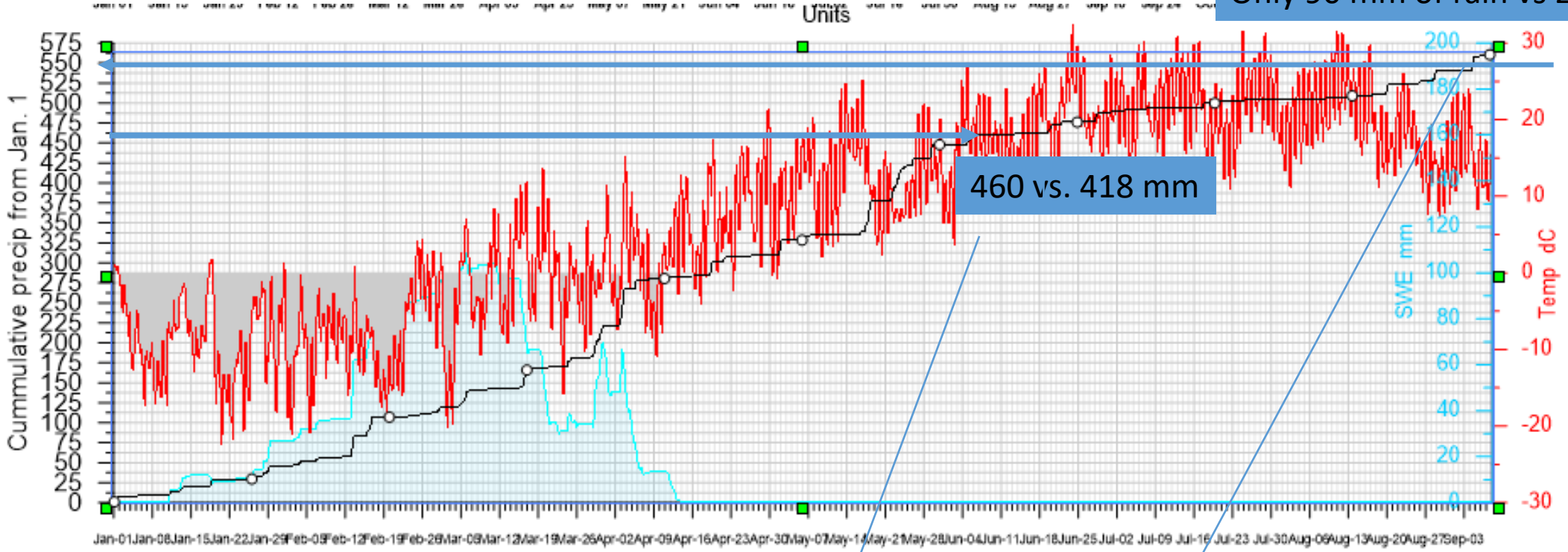






2025 Climatic Conditions

550 vs. 670
Only 90 mm of rain vs 251 mm normal

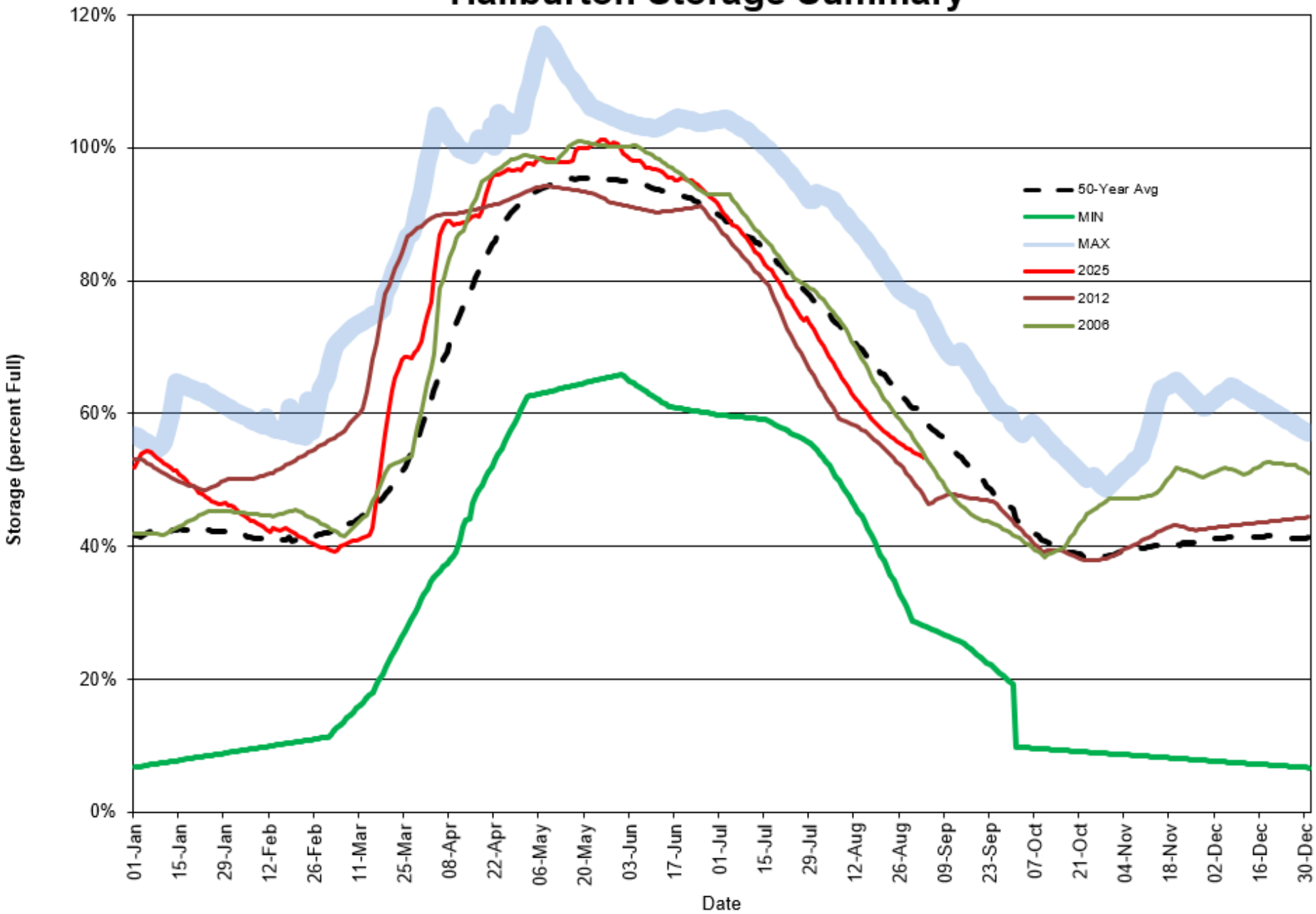


1981 to 2010 Canadian Climate Normals station data

Precipitation

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Code
Rainfall (mm)	33.7	21.2	37.4	56.1	90.8	81.2	90.1	79	100.2	93.1	83.4	27.7	793.9	D
Snowfall (cm)	66.9	52.7	37.9	19.4	2.5	0	0	0	0.1	7.1	32.9	60.1	279.6	D
Precipitation (mm)	100.6	73.9	75.4	75.6	93.3	81.2	90.1	79	100.2	100.2	116.4	87.7	1073.5	D
Cumulative PPT	100.6	174.5	249.9	325.5	418.8	500	590.1	669.1	769.3	869.5	985.9	1073.6		

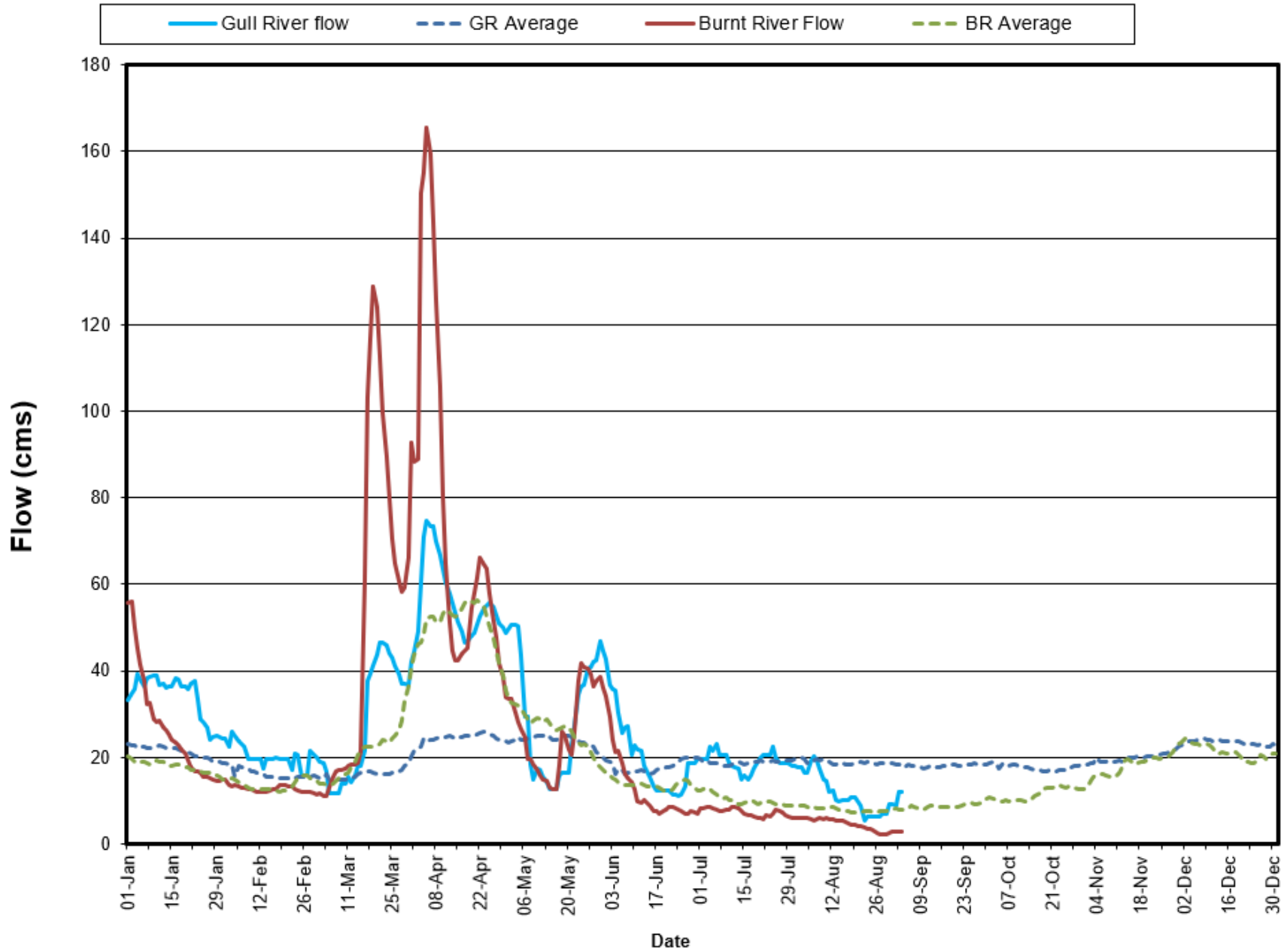
Haliburton Storage Summary

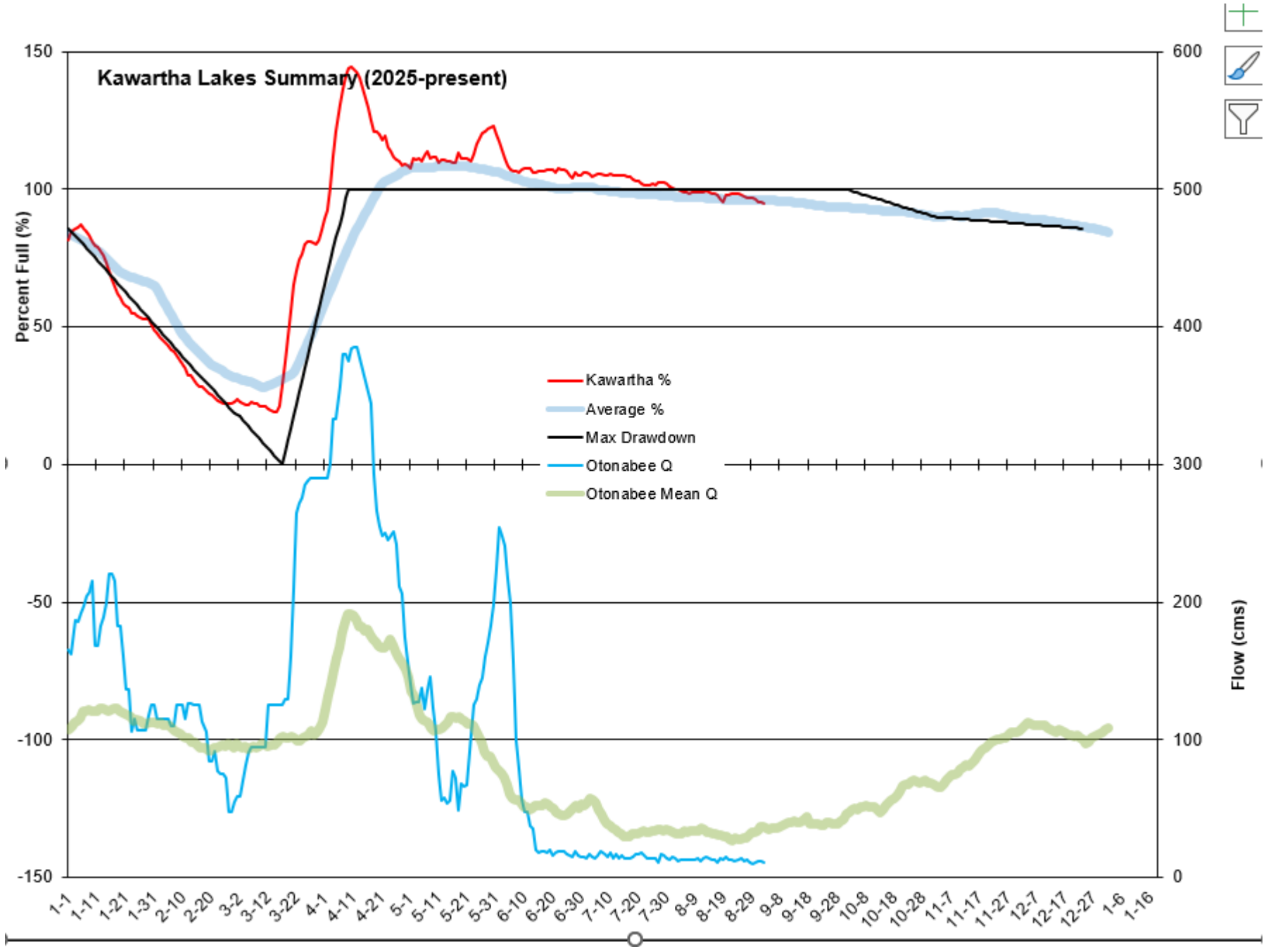


Drought management and Constraints

- Jacking the dams
- Gradual reduction below the minimum flow values as per historic management (while sustaining water for city intake wells, treatment plant businesses and environmental flow)
- Gradual reduction below the minimum navigation flow values as per historic management
- Lowering the Kawartha Lakes below full supply

Haliburton Flow Summary




Kawartha Lakes Summary (2025-present)
Percent Full (%)
Flow (cms)
150
100
50
0
-50
-100
-150
600
500
400
300
200
100
0
Kawartha %
Average %
Max Drawdown
Otonabee Q
Otonabee Mean Q
1-1
1-11
1-21
1-31
2-10
2-20
3-2
3-12
3-22
4-1
4-11
4-21
5-1
5-11
5-21
5-31
6-10
6-20
6-30
7-10
7-20
7-30
8-9
8-19
8-29
9-8
9-18
9-28
10-8
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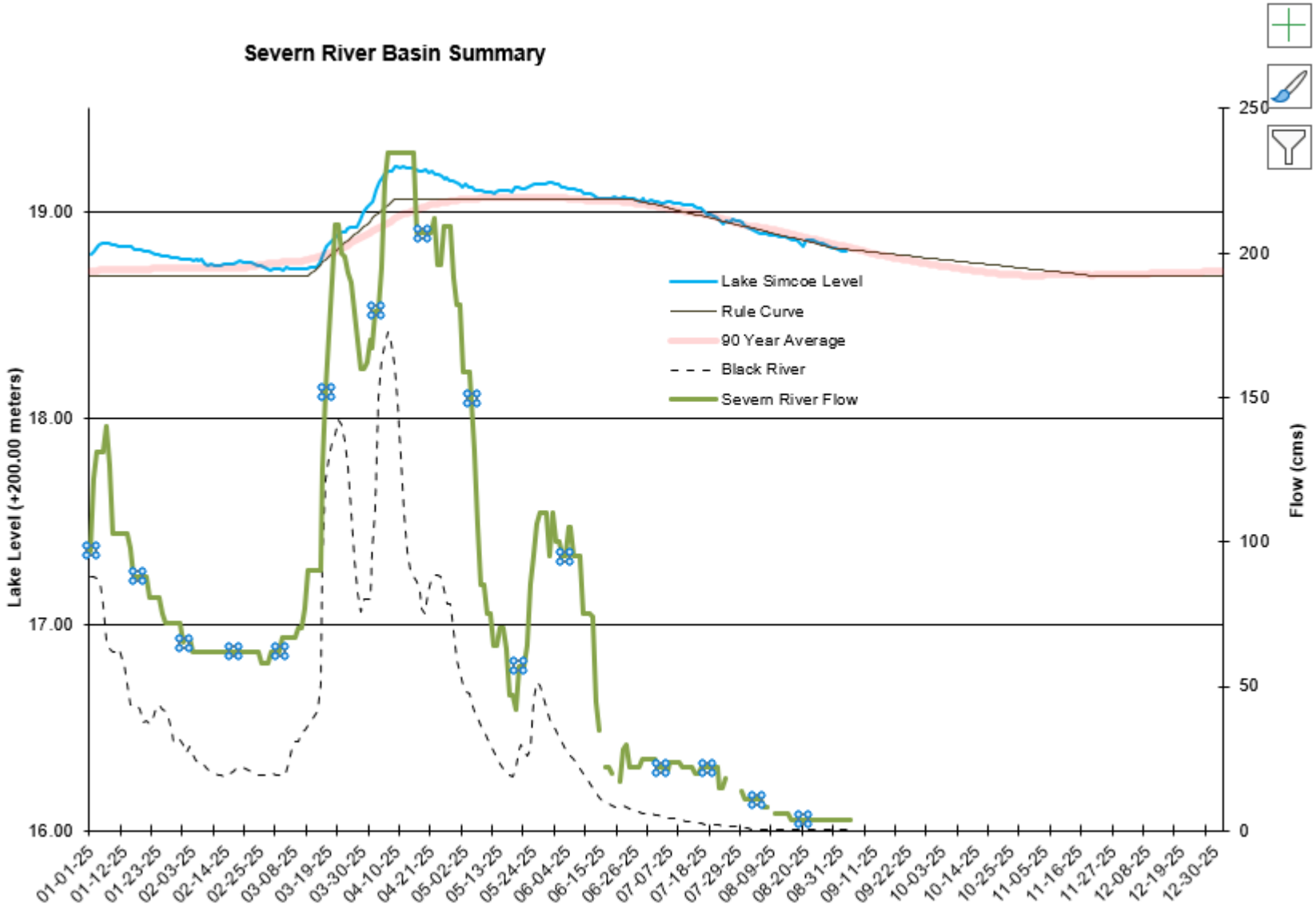
12-27
1-6
1-16

Severn River Basin Summary



Winter 2025/2026 First Snowfall Predictions: La Niña Jet Stream Patterns Emerging

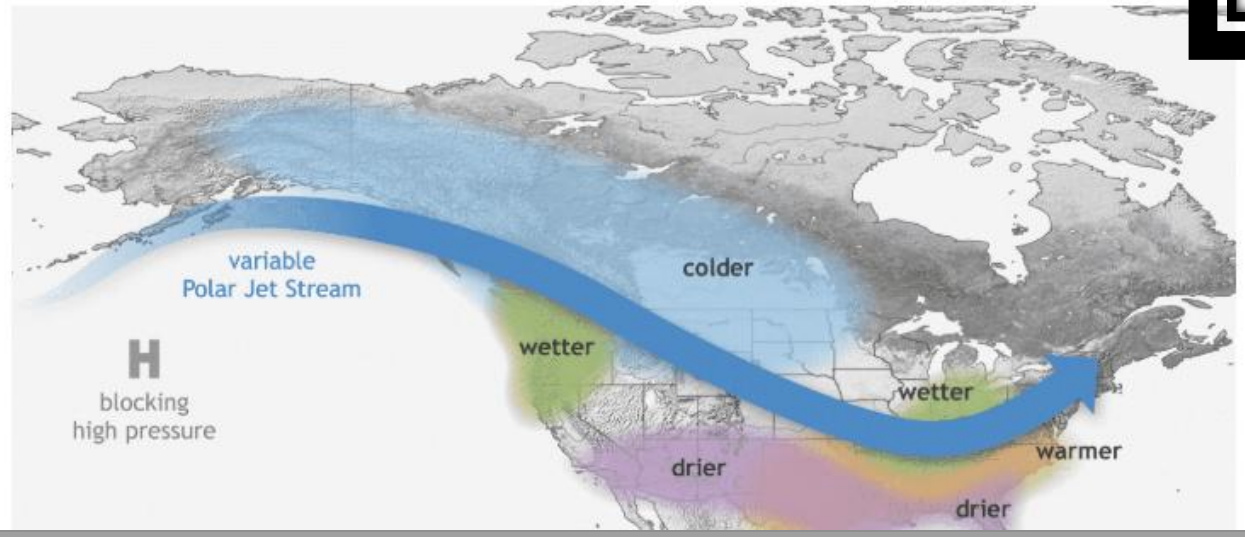
By Andrej Flis

Published: 03/09/2025

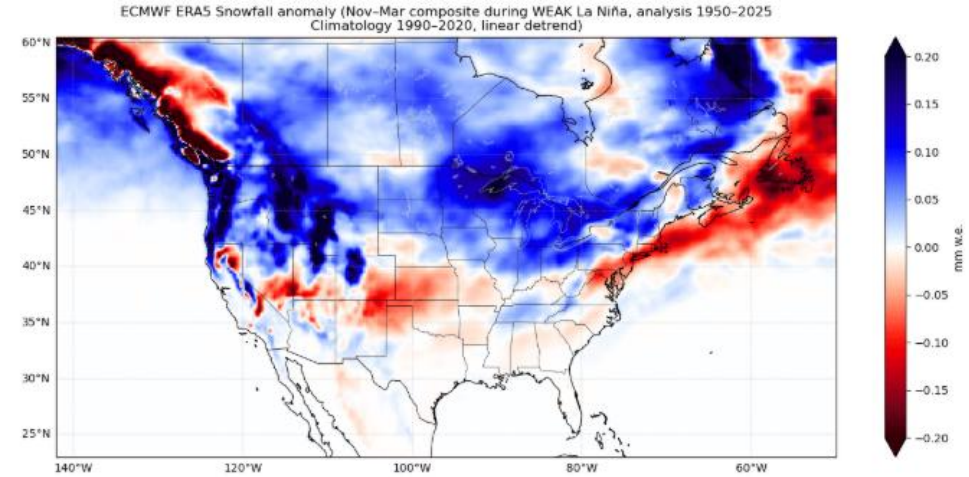
Long range / seasonal forecast

Winter 2025/2026 snowfall predictions show a global weather signal from a new La Niña event, which is already developing in the Pacific, and getting ready for Winter. From Canada to the United States and into Europe, you will see the first Snowfall predictions for the upcoming Winter season.

The image below shows jet stream redirection from La Niña and the resulting weather patterns developing over the United States and Canada in such Winter



Since the colder air is more easily accessible to the northern United States, that increases the **snowfall** potential when moisture is available. In our own analysis image below, you can see the average snowfall pattern for weak La Niña years, as expected for this Winter season.



Thank you

Water Management of Ontario Waterways