

**Date:** 18 November 2020

**To:** Kaipara District Council Meeting – 25 November 2020

**From:** Tony Phipps – Northland Regional Council, GM Customer Service and Community Resilience

**Subject:** Water situation, forecast and resilience issues - Presentation

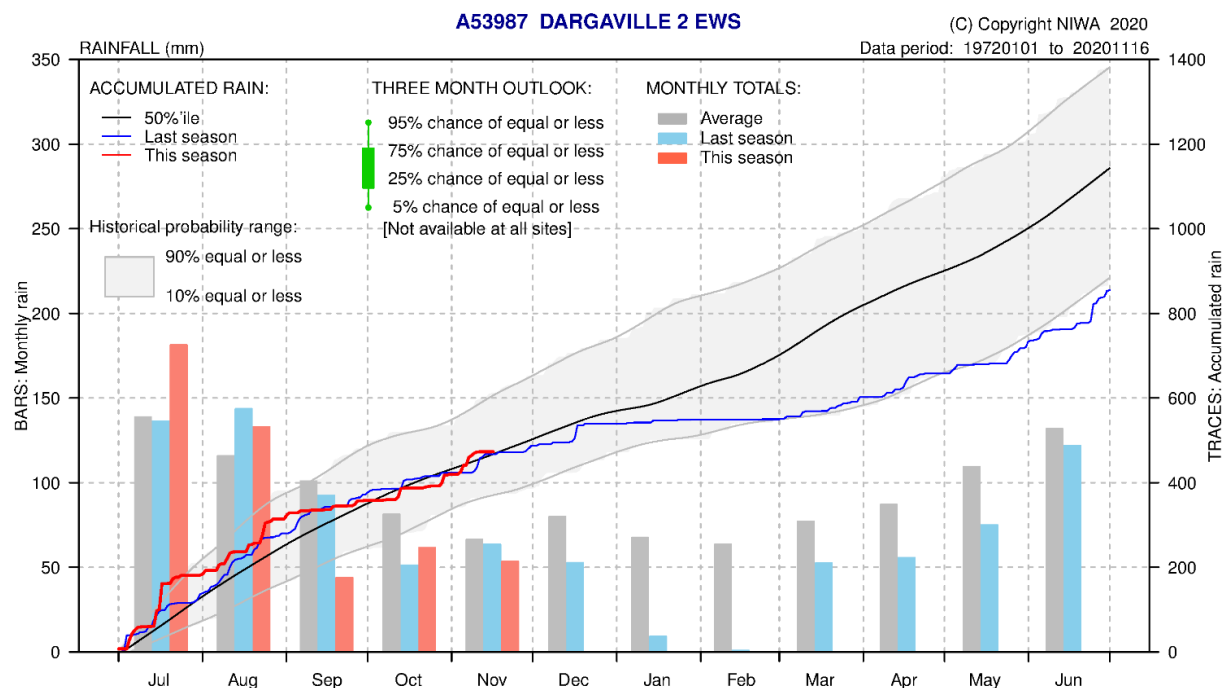
## Drought/Water Resilience

Improving water resilience is an agreed regional priority, a presentation will be provided to Council summarising the current water resources situation and forecast for the Kaipara District as well as an update on water resilience and what's being done to improve it.

### Summary of Water resource status for Kaipara District Council:

Typically, 70mm of rain falls over the November month. The Kaipara District has received 42mm to 126mm of rain from 01/11/2020 to 18/01/2020, 6 out of 10 rain gauges have recorded above normal rainfall for November. In relation to where the rain fell, 80-100mm was recorded in the southern catchments including Ruawai, with 40-60mm from Dargaville north to Kai Iwi Lakes, which recorded the lowest total of 42mm.

The rainfall accumulation for July to November is close to normal as shown in the graph below:



The Kaihu & Hakaru rivers are above normal flows for November. The Ruawai and Mangawhai deep aquifers are approximately 30mm below normal groundwater levels for November with the Tara system recording 772mm above normal. The NIWA climate station in Dargaville indicate soil moisture deficit at 80mm, 20% below normal.

The setup conditions leading into summer are very different 2019. The impact of La Nina event is already very evident, the high-pressure systems are not locking in over the region and sitting well south allowing rainfall to track in from the north. Going on historic La Nina events, Northland has a 7/10 chance of above normal rainfall for the summer period.

