



Thursday, 09 September 2021

Issue: 1273

A weekly summary relating to New Zealand hydro storage and inflows.
Compiled by Energy Link Ltd.

Storage Summary	South Island Controlled	South Island Uncontrolled	South Island Total	North Island Taupo	Total Storage
Current Storage (GWh)	1844	590	2434	281	2715
Storage Change (GWh)	-52	-14	-66	6	-60

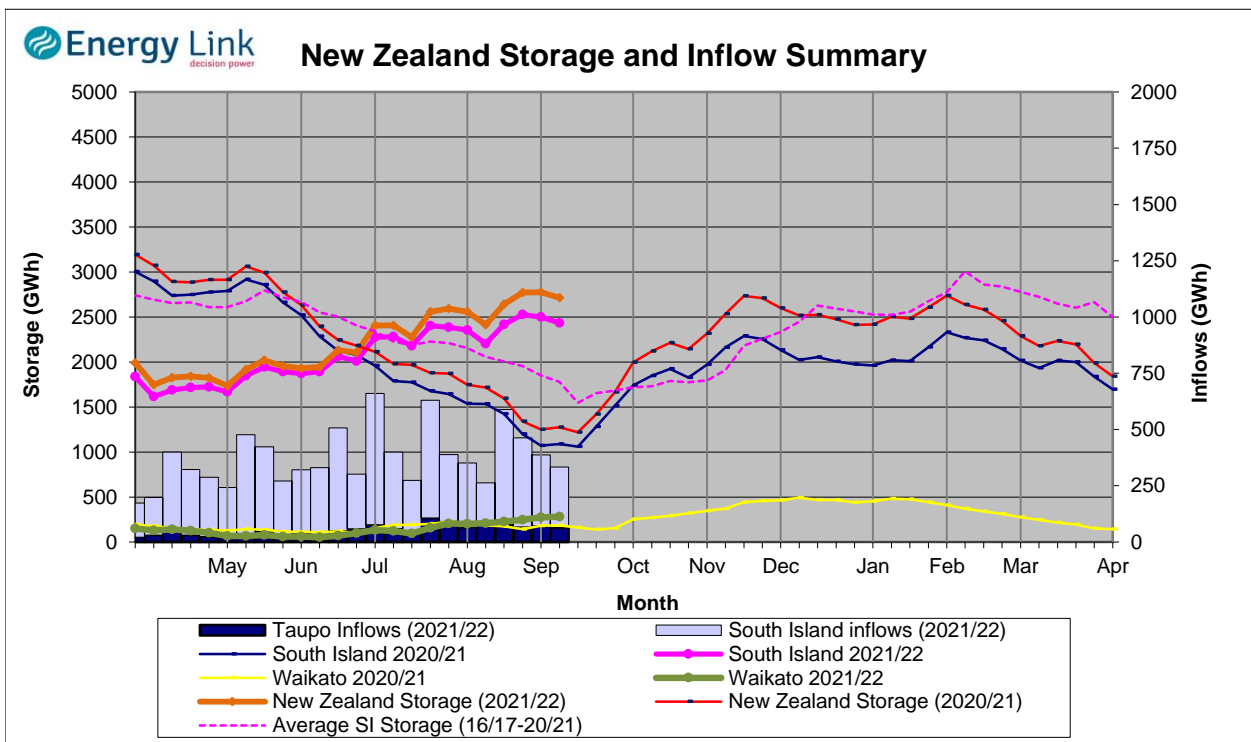
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2314	281	2595

Note: These figures are provided to align with Transpower's Security of Supply information. However due to variances in generation efficiencies and timing, storage may not exactly match Transpower's figures.

New Zealand Summary

Total storage decreased 60 GWh over the last week. South Island controlled storage decreased 2.7% to 1844 GWh; South Island uncontrolled storage decreased 2.3% to 590 GWh; with Taupo storage increasing 2.2% to 281 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	471	311	1652	281	2715
Last Week	476	319	1705	275	2775
% Change	-1.2%	-2.6%	-3.1%	2.2%	-2.2%
Inflow (GWh)					
This Week	122	63	84	64	334
Last Week	132	72	110	73	387
% Change	-7.2%	-12.5%	-23.6%	-11.8%	-13.7%

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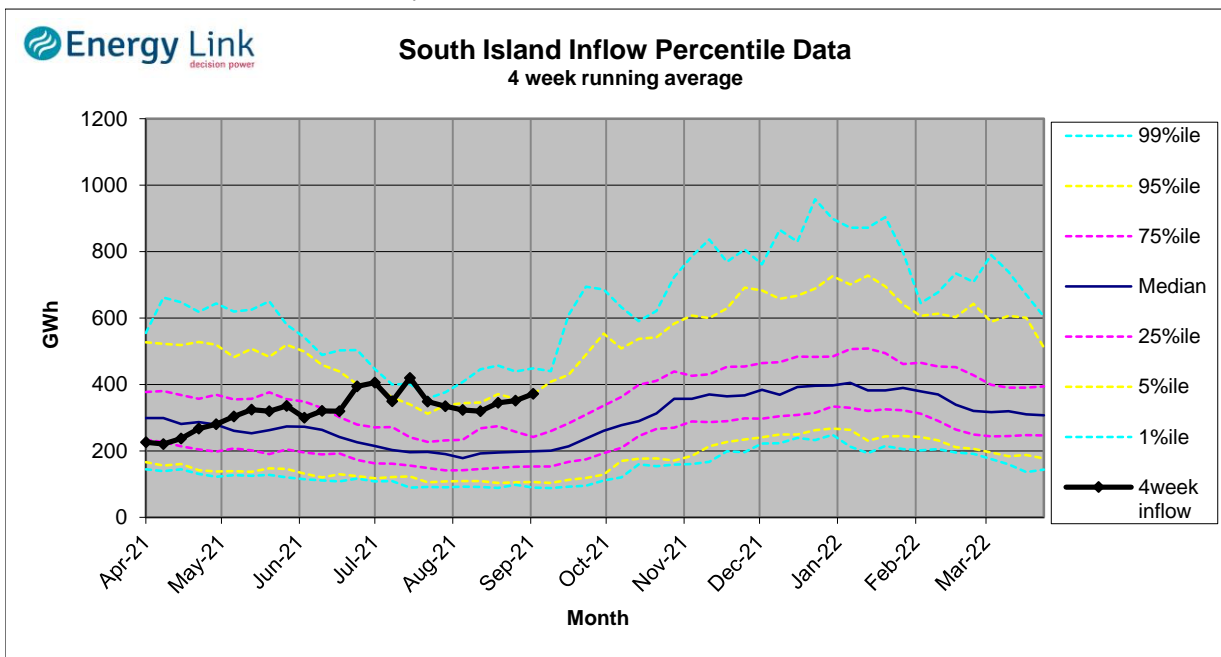
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	178.65	165	30	-37
	Te Anau	202.90	305		
Clutha	Wakatipu	309.89	48	163	-39
	Wanaka	277.51	71	238	
	Hawea	343.24	191	56	
Waitaki	Tekapo	705.56	332		-48
	Pukaki	528.62	1320		
Waikato	Taupo	356.54	281		40

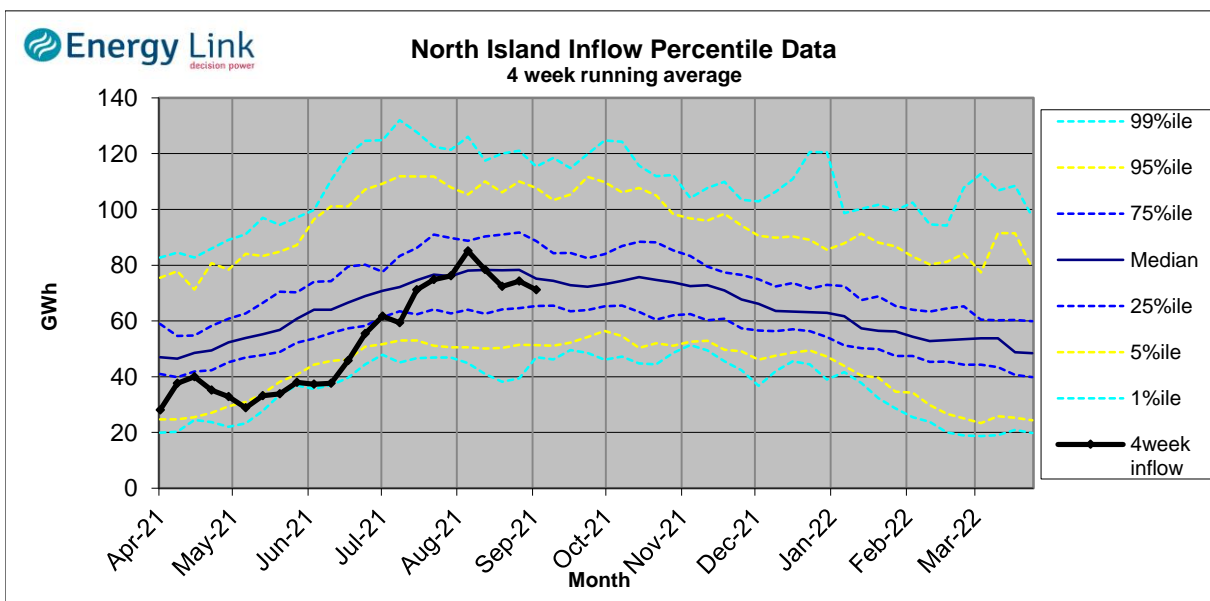
Inflow Summary

The two charts below represent where current inflows are in relation to historic inflow patterns. The percentile values have been calculated using all inflows since 1931.

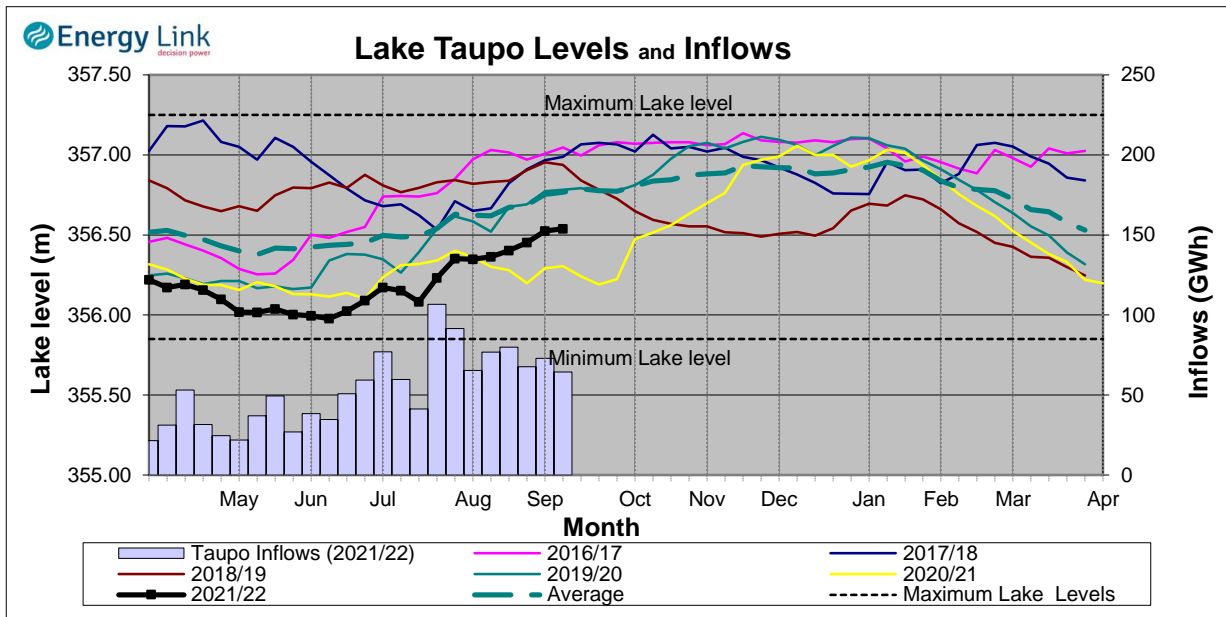
South Island Inflows - The past four weeks of S. I. inflows rank as the 5th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 36th driest on record.



Waikato System

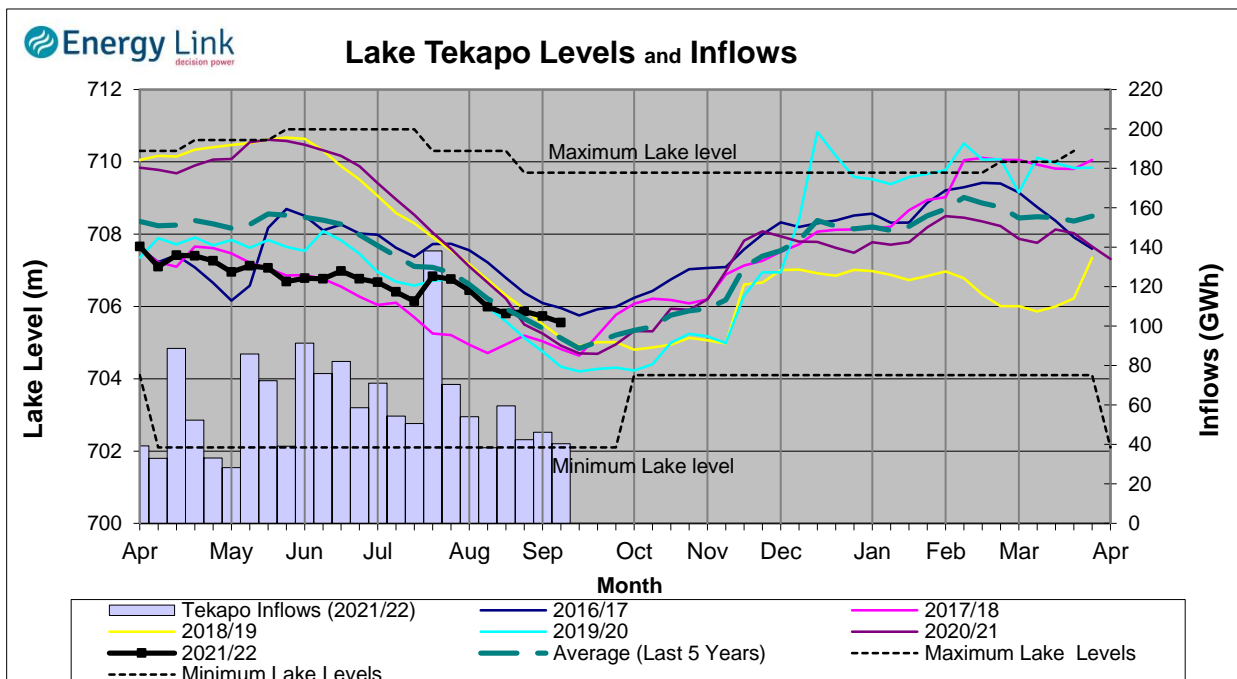


Lake Levels - Lake Taupo storage increased to 49.2% of nominal full at 281 GWh.

Inflows - Inflows decreased 11.8% to 64 GWh.

Generation - Average generation increased 26.8% to 413.9 MW.

Tekapo



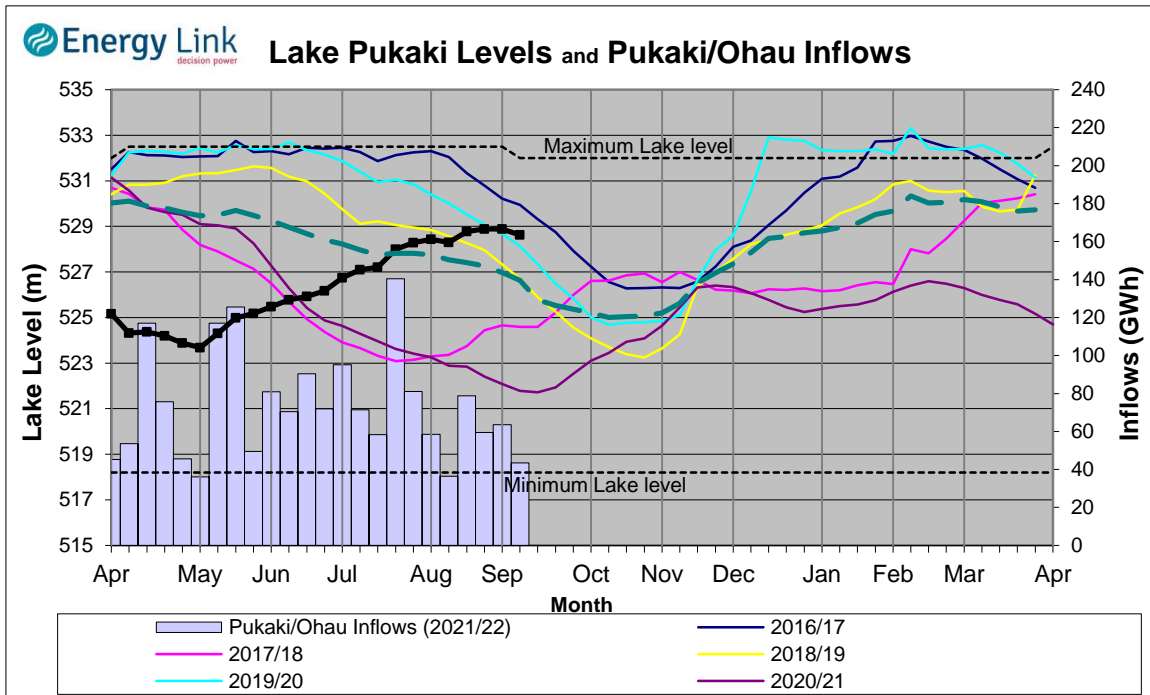
Lake Levels - Lake Tekapo ended the week 42% nominally full with storage falling to 332 GWh.

Inflows - Inflows into tekapo decreased 12.6% to 40 GWh.

Generation - Average Tekapo generation decreased 1.6% to 121.6 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 71% nominally full with storage falling to 1320 GWh.

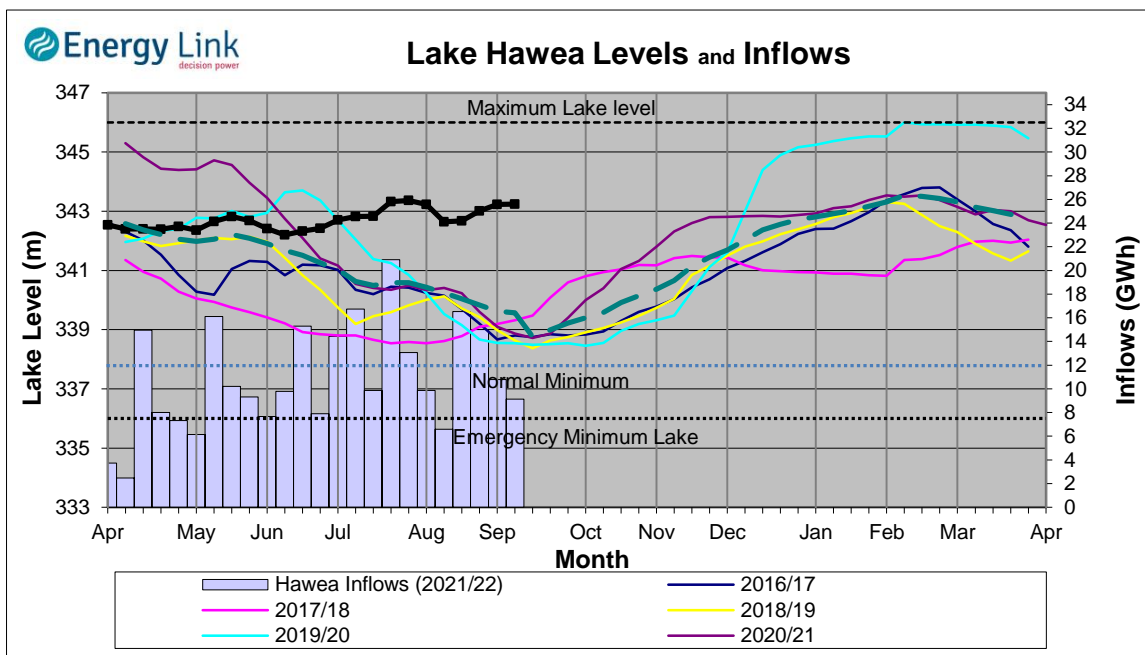
Inflows - Inflows into the Waitaki System decreased 31.6% to 43 GWh.

Generation - Average Waikati generation increased 7.4% to 798.9 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 26.6 cumecs while Waitaki River flows were higher than last week averaging 337.7 cumecs.

Clutha System



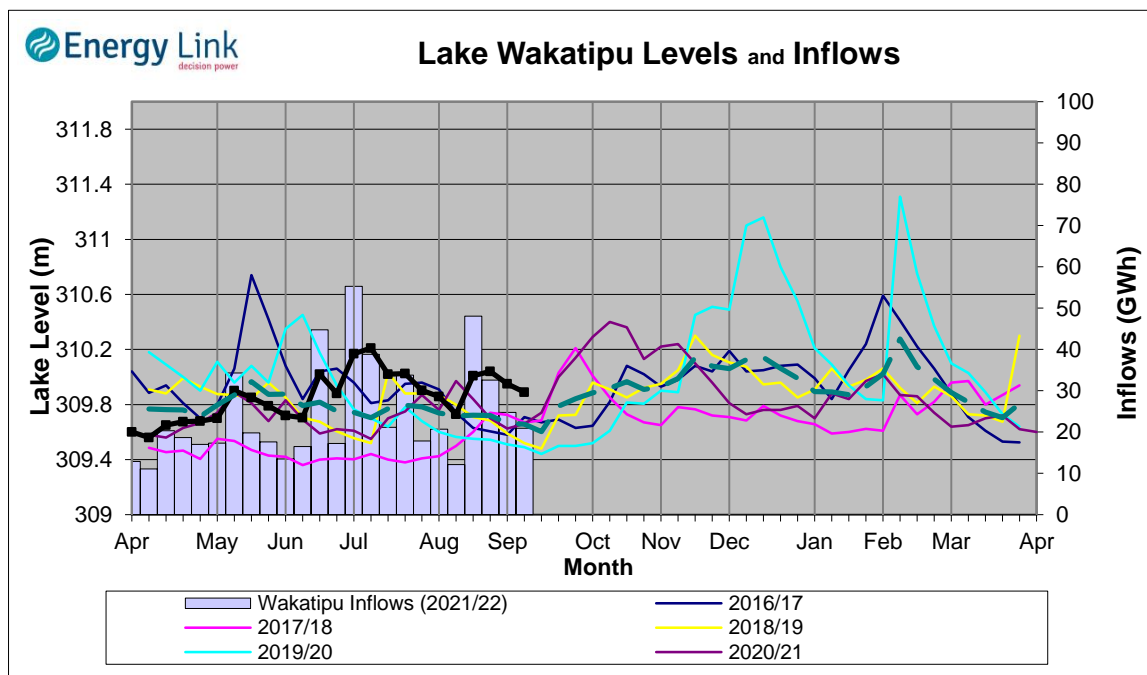
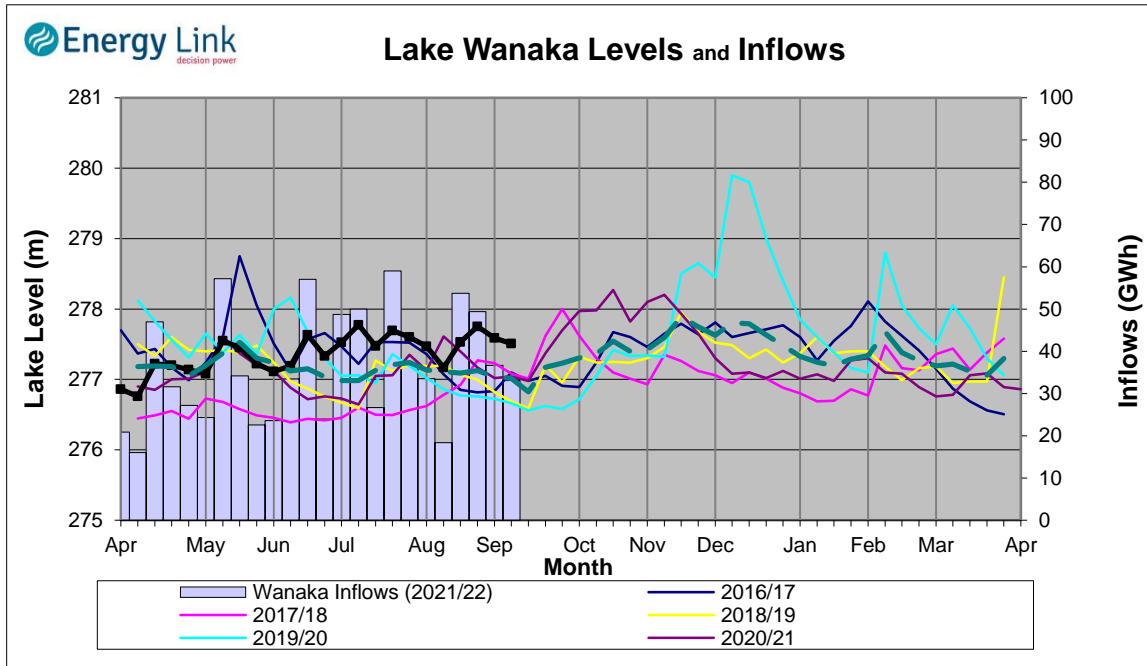
Lake Levels - Total storage for the Clutha System decreased 2.6% to 311 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 64.8%, 62.1% and 45.7% nominally full respectively.

Inflows - Total Inflows into the Clutha System 12.5% lower at 63 GWh.

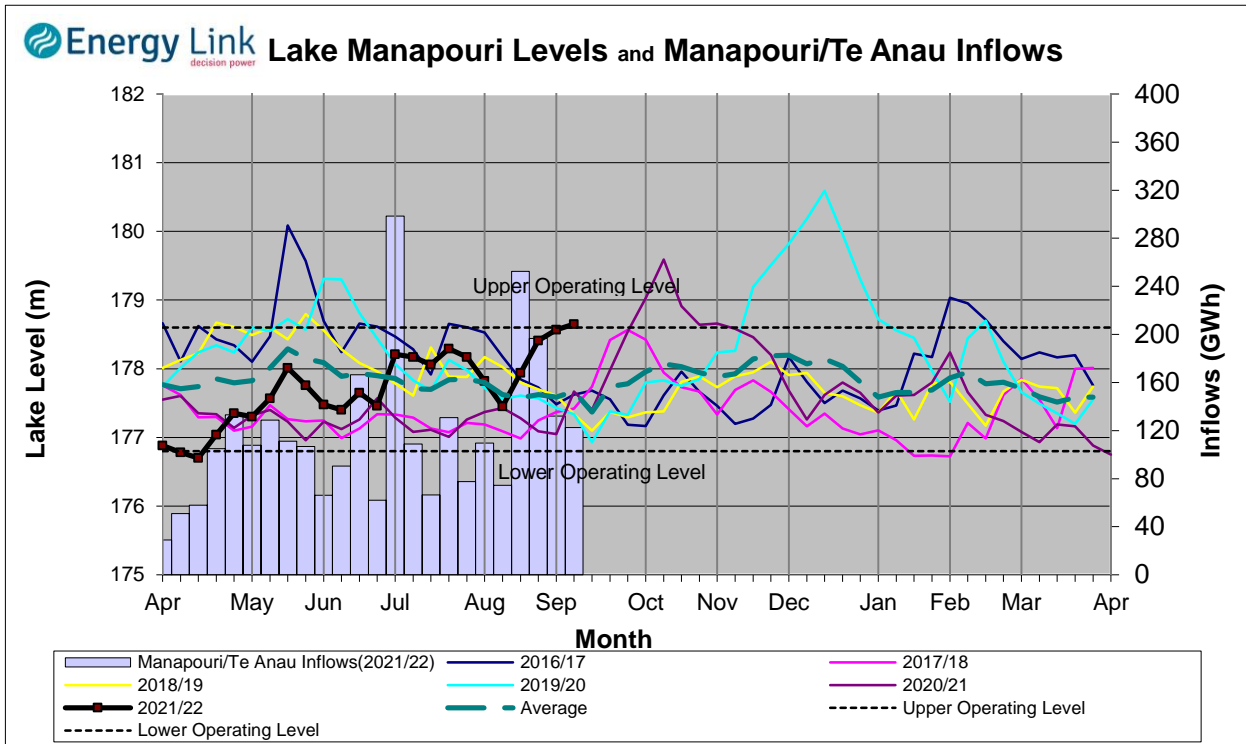
Generation - Average generation was 8.9% lower at 499 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 508.6 cumecs. This comprised of 56 cumecs from Lake Hawea, 238 cumecs from Lake Wanaka, 163 cumecs from Lake Wakatipu and 52 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 1.2% to 471 GWh with Lake Manapouri ending the week 101.8% nominally full and Lake Te Anau ending the week 110.9% nominally full.

Inflows - Total inflows into the Manapouri System decreased 7.2% to 122 GWh.

Generation - Average generation was 0.1% higher at 735 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 29.8 cumecs.

Operating Range - Lakes Manapouri and Te Anau are operating in the lower end of their respective 'High operating range'.

