



Thursday, 23 September 2021

Issue: 1275

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)	2005	754	2759	339	3098
Storage Change (GWh)	44	-82	-38	35	-3

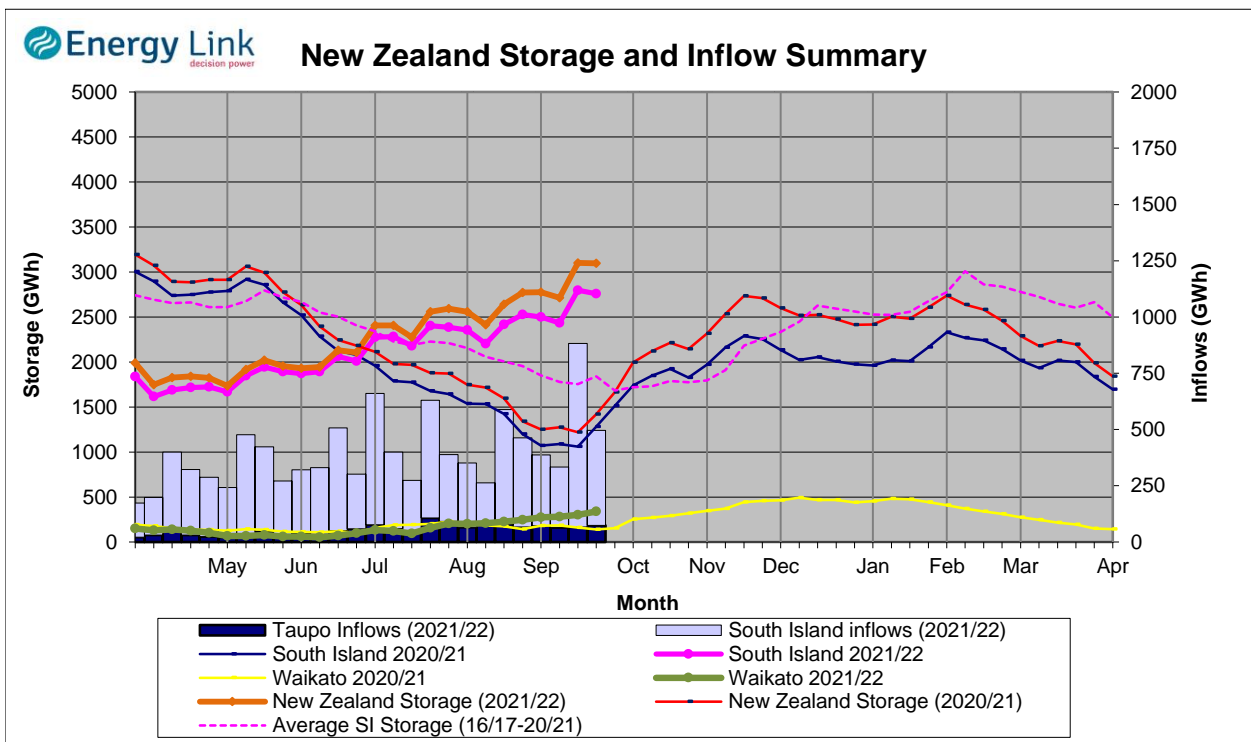
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2597	339	2935

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 3 GWh over the last week. South Island controlled storage increased 2.2% to 2005 GWh; South Island uncontrolled storage decreased 9.8% to 754 GWh; with Taupo storage increasing 11.6% to 339 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	592	388	1779	339	3098
Last Week	652	398	1747	303	3101
% Change	-9.3%	-2.4%	1.8%	11.6%	-0.1%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	180	87	156	74	497
Last Week	411	176	228	67	883
% Change	-56.3%	-50.8%	-31.5%	9.6%	-43.8%

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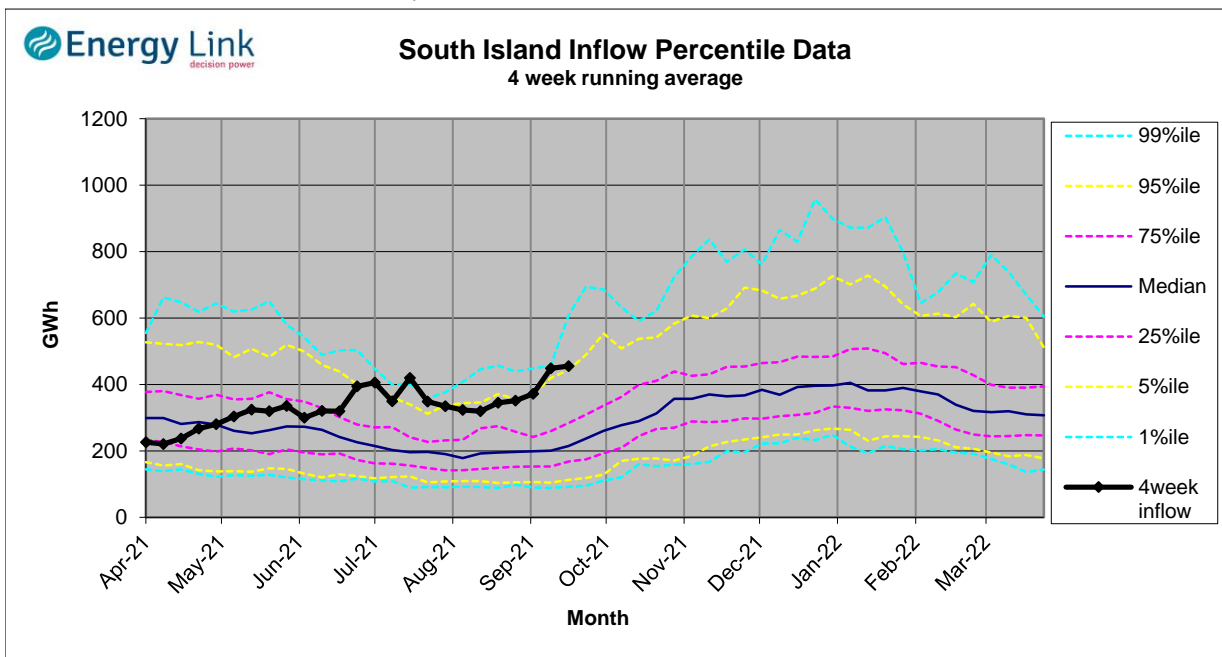
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	179.22	200	474	14
	Te Anau	203.48	392		
Clutha	Wakatipu	310.19	71	275	33
	Wanaka	277.93	92	330	
	Hawea	344.15	225	13	
Waitaki	Tekapo	706.40	418		16
	Pukaki	528.93	1361		
Waikato	Taupo	356.68	339		-2

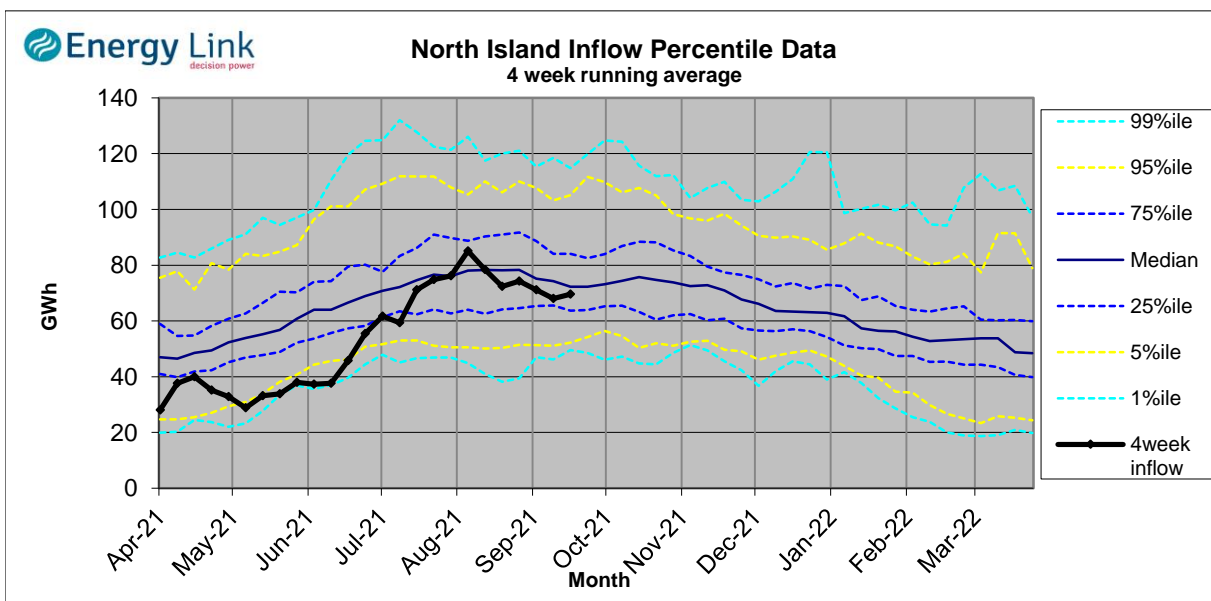
Inflow Summary

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.

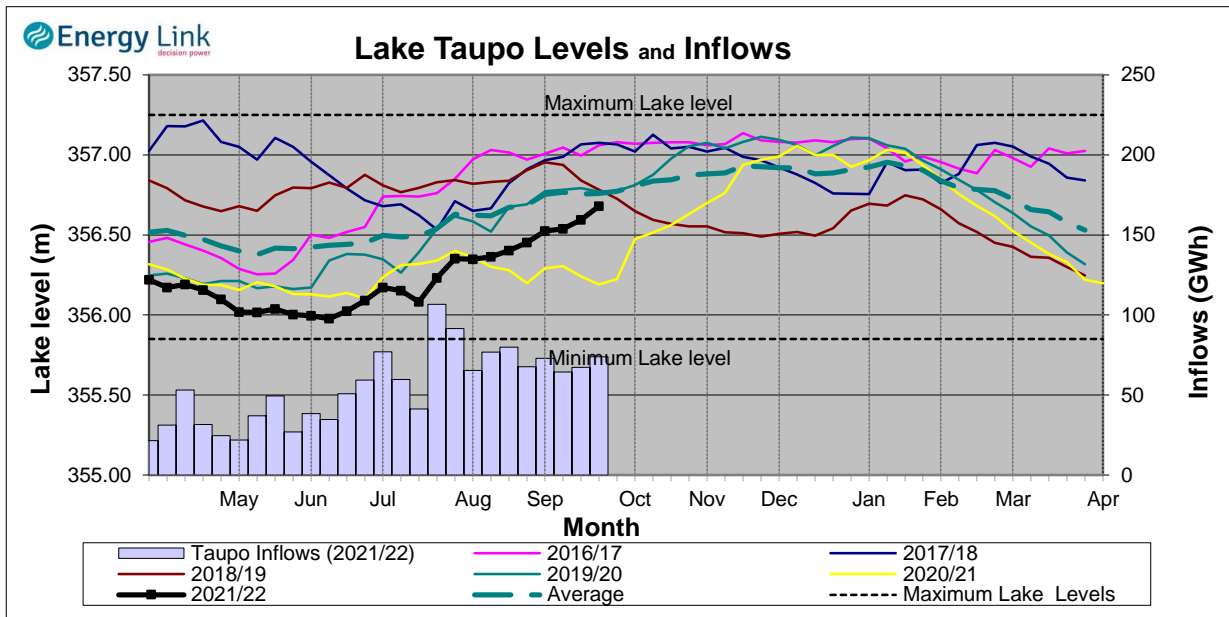
South Island Inflows - The past four weeks of S. I. inflows rank as the 4th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 38th driest on record.



Waikato System

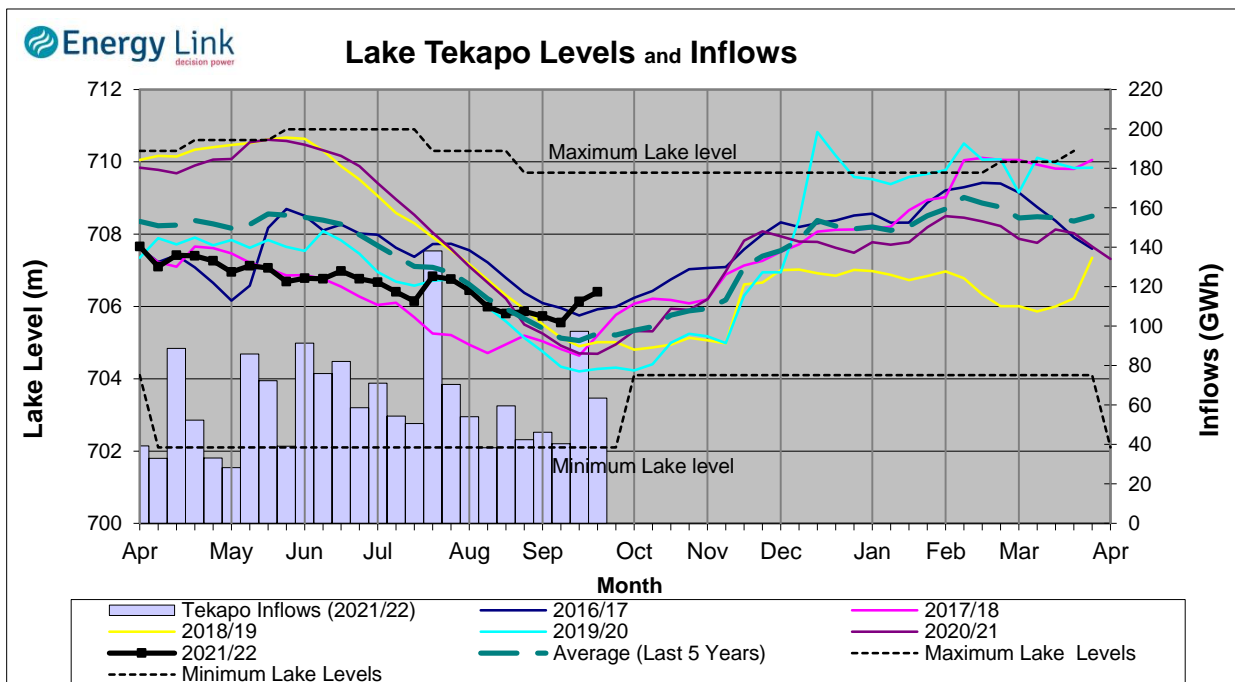


Lake Levels - Lake Taupo storage increased to 59.3% of nominal full at 339 GWh.

Inflows - Inflows increased 9.6% to 74 GWh.

Generation - Average generation decreased 8% to 316.6 MW.

Tekapo



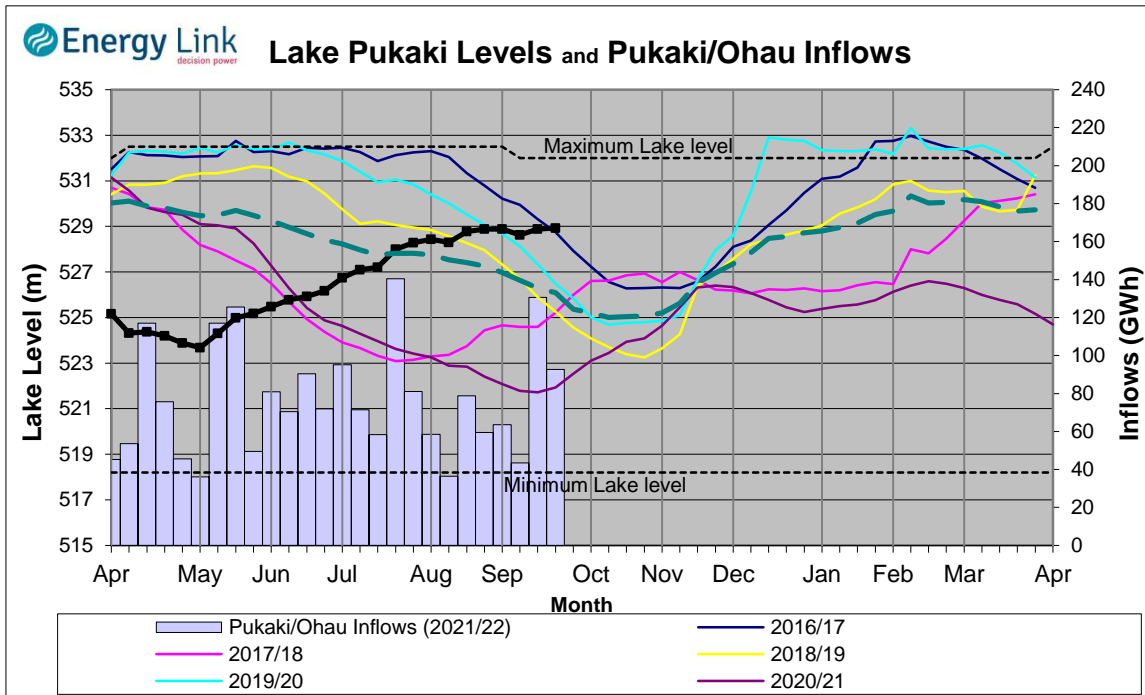
Lake Levels - Lake Tekapo ended the week 58% nominally full with storage increasing to 418 GWh.

Inflows - Inflows into tekapo decreased 34.8% to 64 GWh.

Generation - Average Tekapo generation increased 1.6% to 78.6 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 77% nominally full with storage increasing to 1361 GW

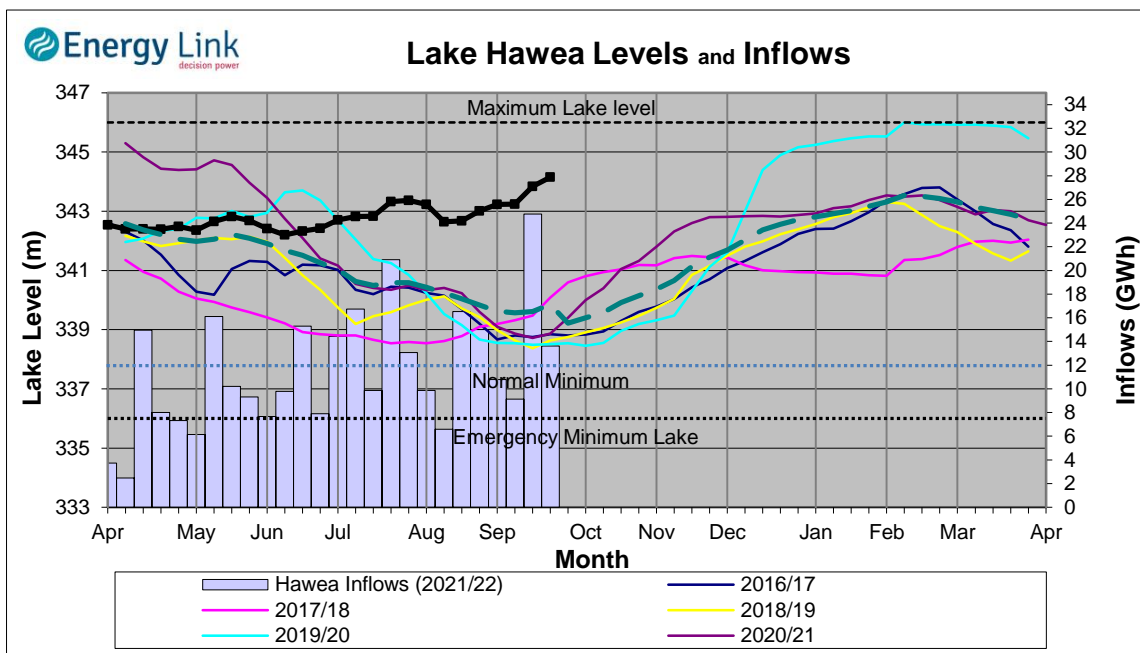
Inflows - Inflows into the Waitaki System decreased 29% to 93 GWh.

Generation - Average Waikati generation decreased 1.8% to 827.6 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 40.1 cumecs while Waitaki River flows were higher than last week averaging 376 cumecs.

Clutha System



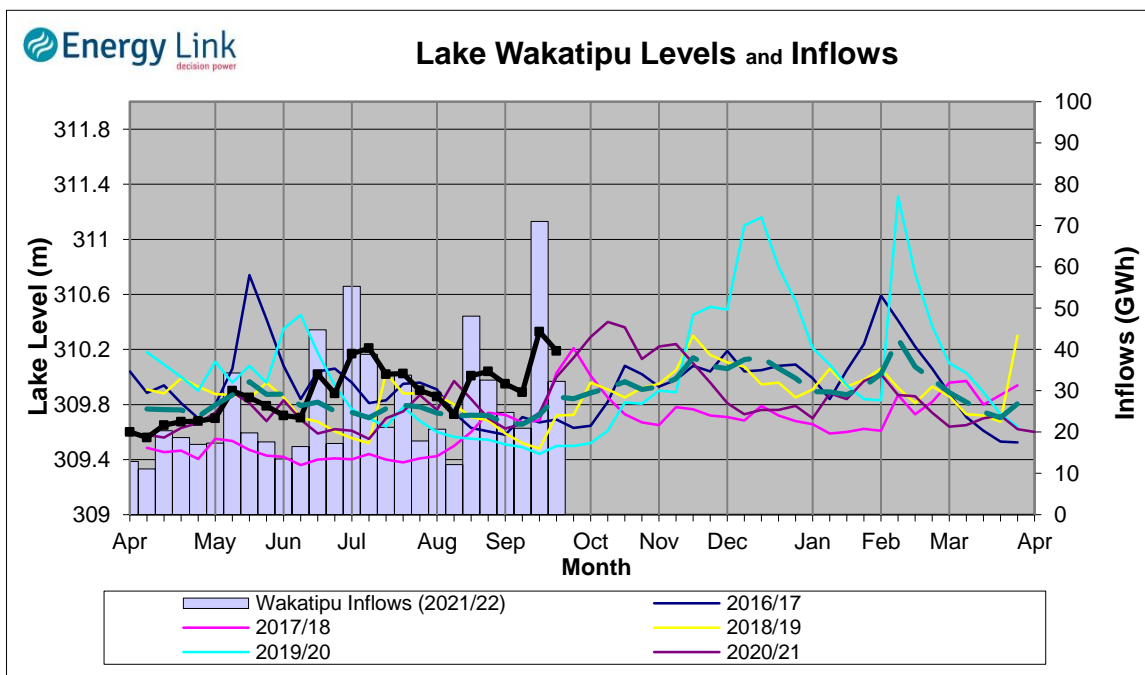
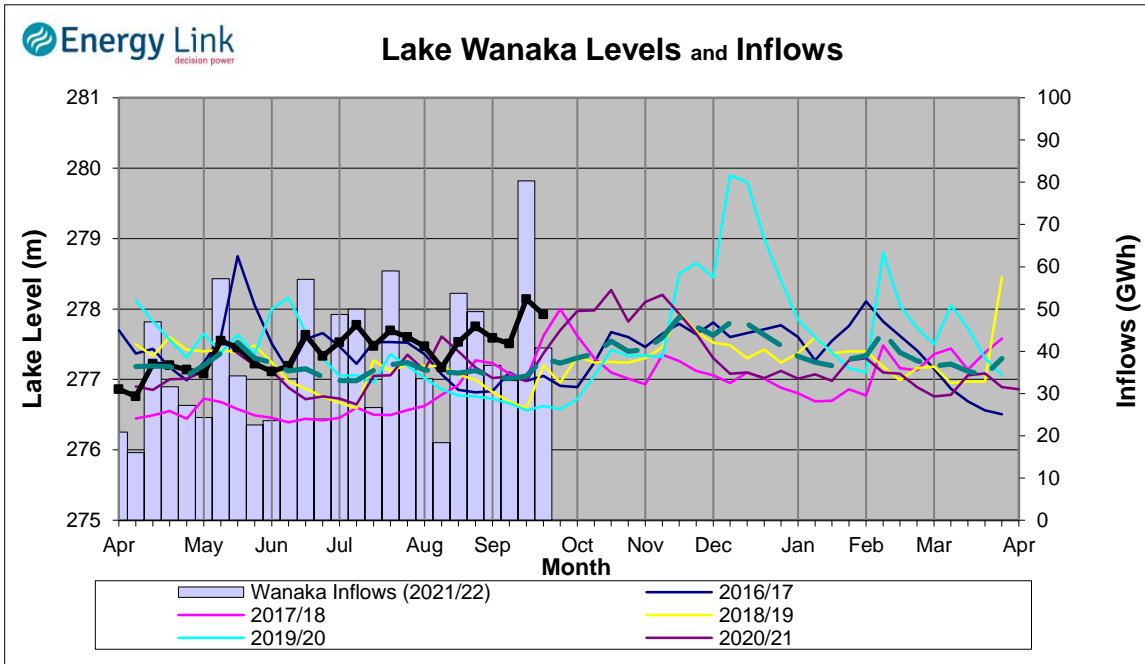
Lake Levels - Total storage for the Clutha System decreased 2.4% to 388 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 76.3%, 80.1% and 67.1% nominally full respectively.

Inflows - Total Inflows into the Clutha System 50.8% lower at 87 GWh.

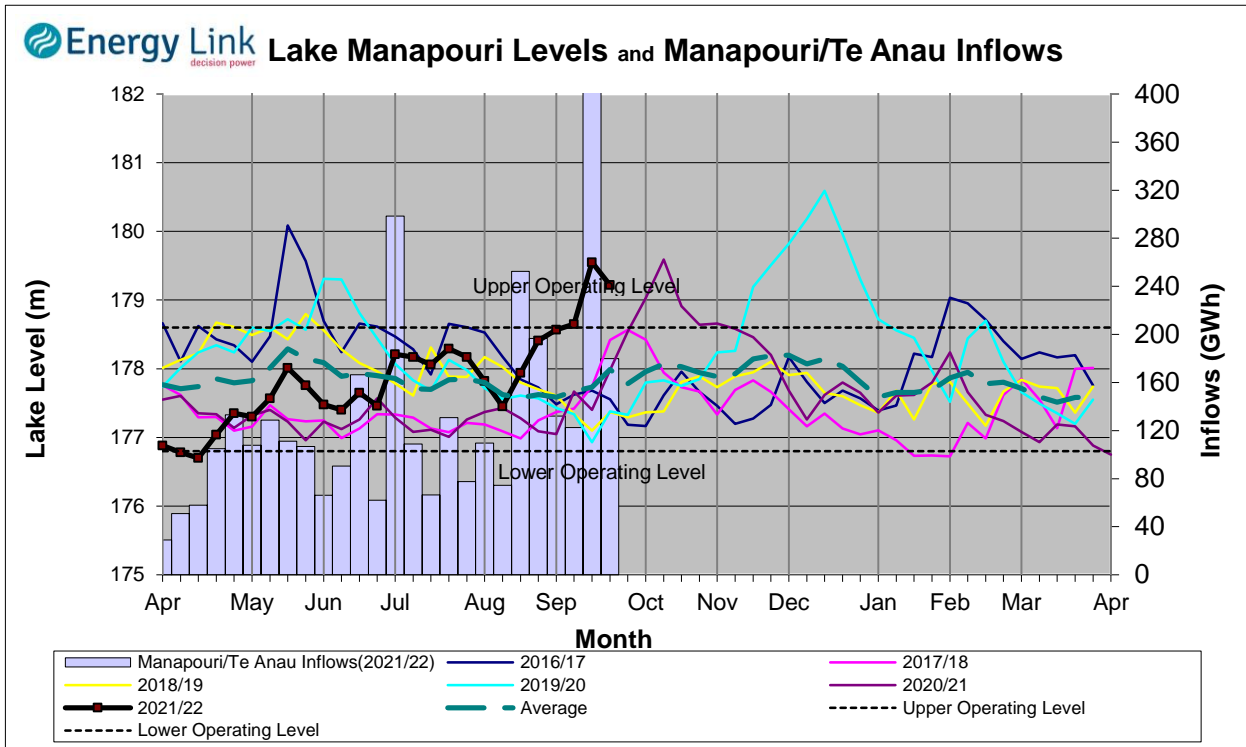
Generation - Average generation was 5.4% higher at 606 MW.

Hydro Spill - Estimate Spill is 28.6 cumecs.

River Flows - Total outflows from the lakes and Shotover River fell to 684.9 cumecs. This comprised of 13 cumecs from Lake Hawea, 330 cumecs from Lake Wanaka, 275 cumecs from Lake Wakatipu and 67 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 9.3% to 592 GWh with Lake Manapouri ending the week 123% nominally full and Lake Te Anau ending the week 142.4% nominally full.

Inflows - Total inflows into the Manapouri System decreased 56.3% to 180 GWh.

Generation - Average generation was 5.8% higher at 722 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 474 cumecs.

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

