



Thursday, 15 July 2021

Issue: 1265

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)	1701	479	2180	95	2275
Storage Change (GWh)	-12	-91	-103	-28	-131

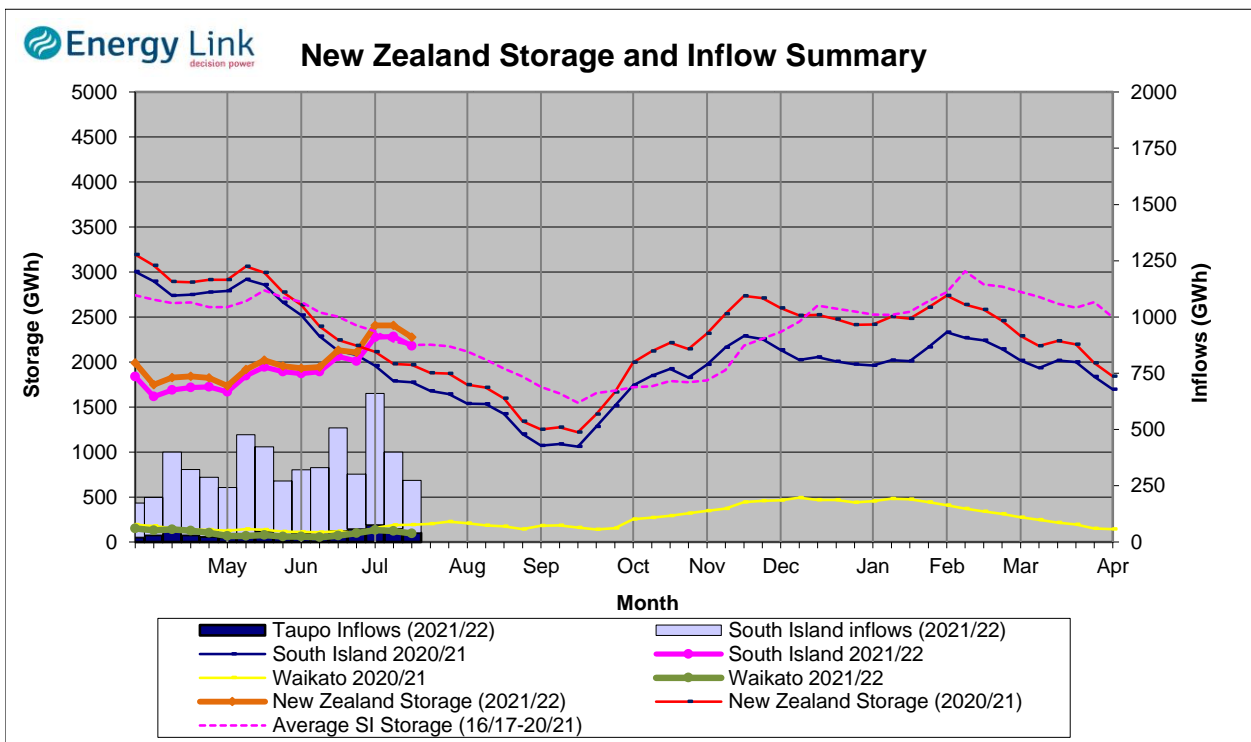
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2053	95	2148

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 131.2 GWh over the last week. South Island controlled storage decreased 0.7% to 1701 GWh; South Island uncontrolled storage decreased 16% to 479 GWh; with Taupo storage decreasing 22.8% to 95 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	352	304	1525	95	2275
Last Week	413	333	1537	123	2406
% Change	-15.0%	-8.7%	-0.8%	-22.8%	-5.5%
Inflow (GWh)					
This Week	67	58	109	41	274
Last Week	109	106	126	60	400
% Change	-38.8%	-45.3%	-13.5%	-31.0%	-31.4%

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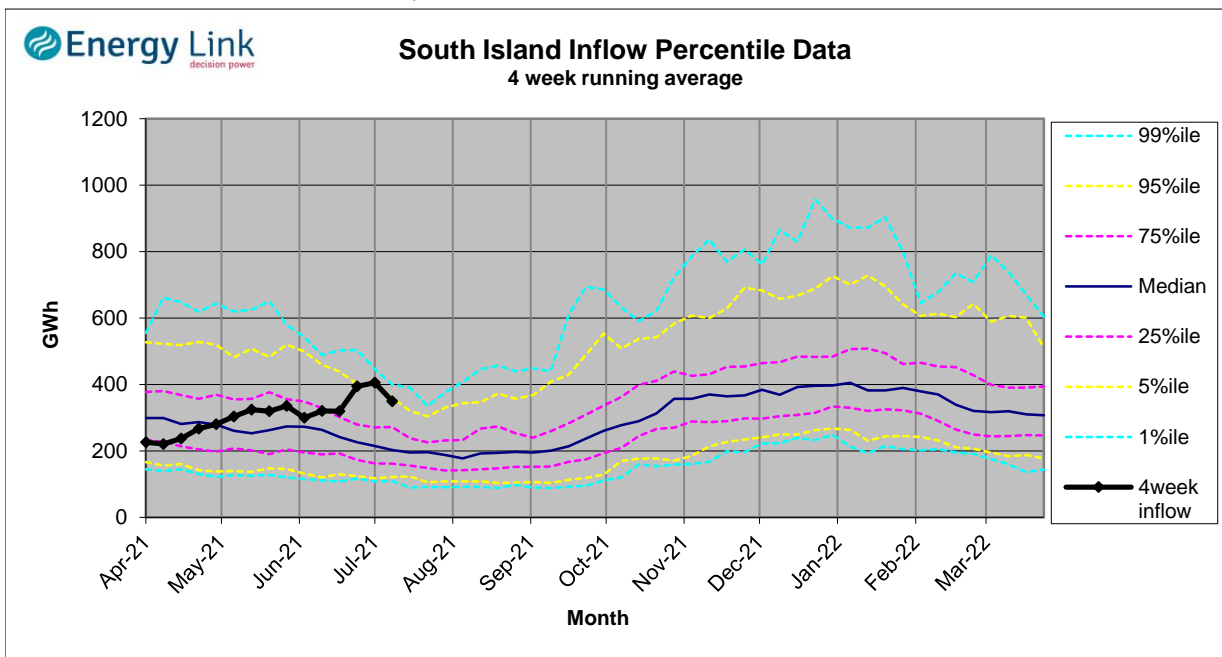
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	178.06	130	21	-32
	Te Anau	202.34	221		
Clutha	Wakatipu	310.02	58	228	-2
	Wanaka	277.48	69	267	
	Hawea	342.83	176	61	
Waitaki	Tekapo	706.15	392		
	Pukaki	527.21	1133		
Waikato	Taupo	356.08	95		

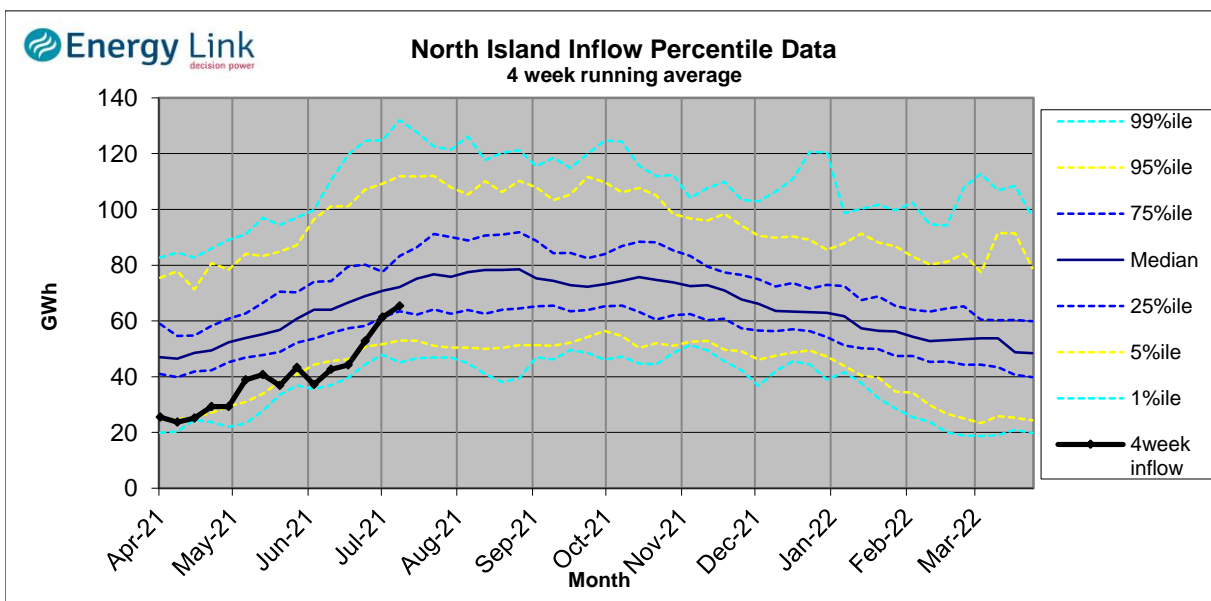
Inflow Summary

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.

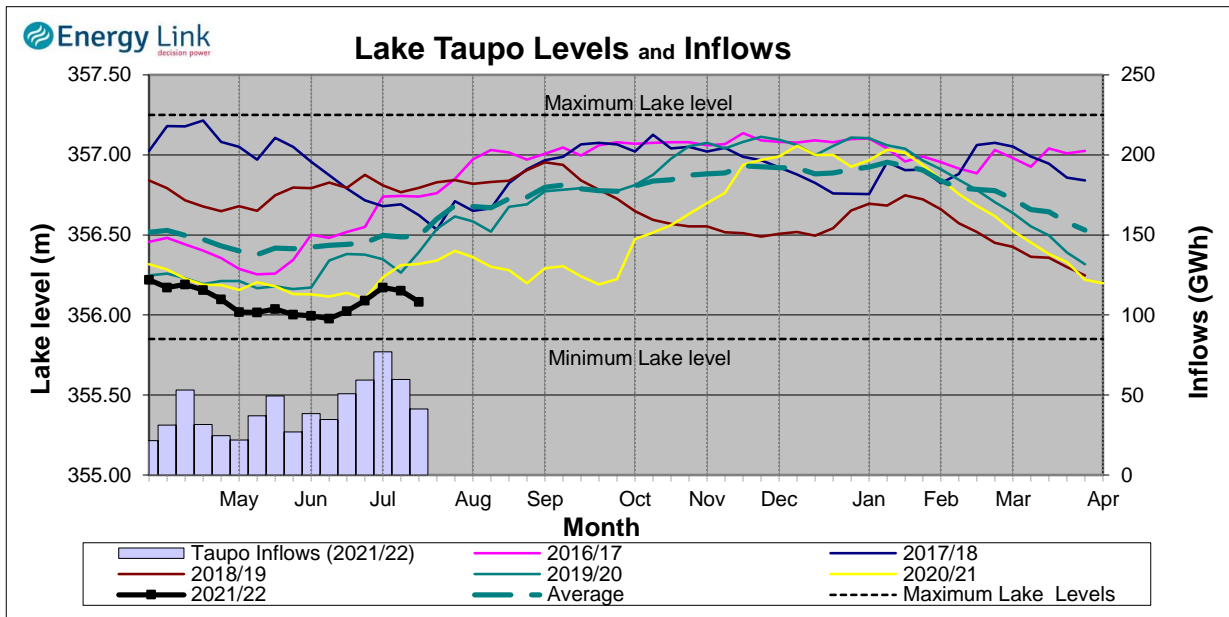
South Island Inflows - The past four weeks of S. I. inflows rank as the 7th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 14th driest on record.



Waikato System

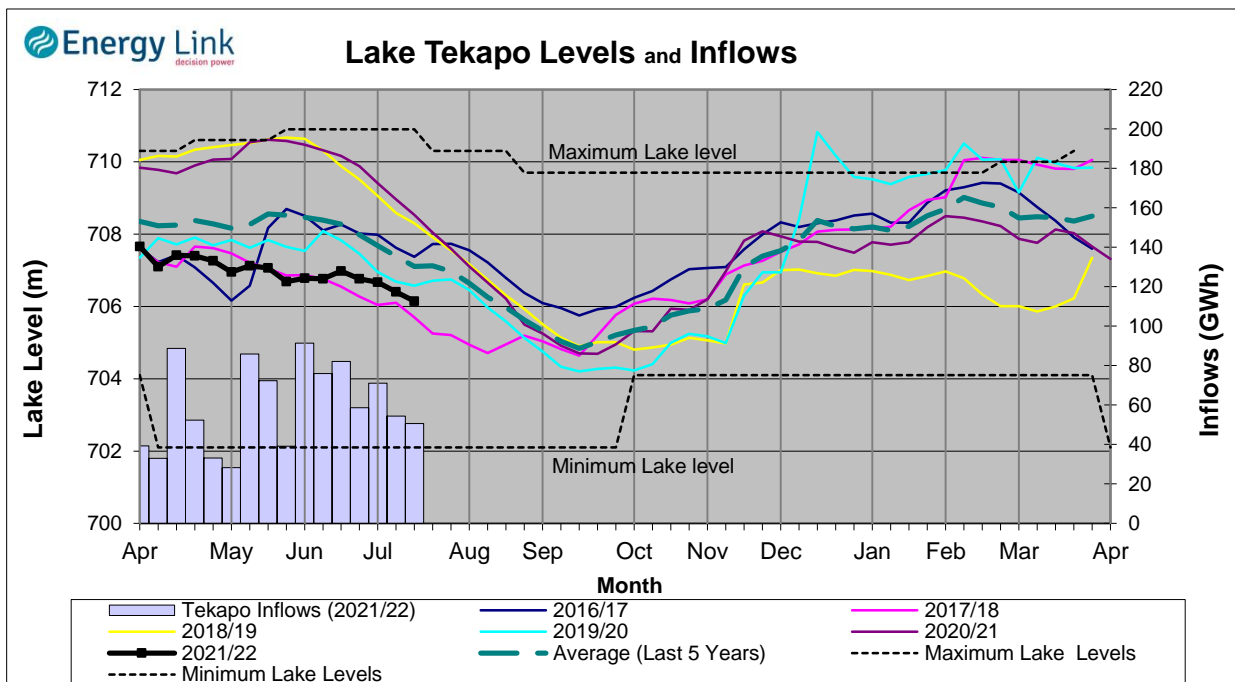


Lake Levels - Lake Taupo storage fell to 16.6% of nominal full at 95 GWh.

Inflows - Inflows decreased 31% to 41 GWh.

Generation - Average generation increased 3.7% to 467.6 MW.

Tekapo



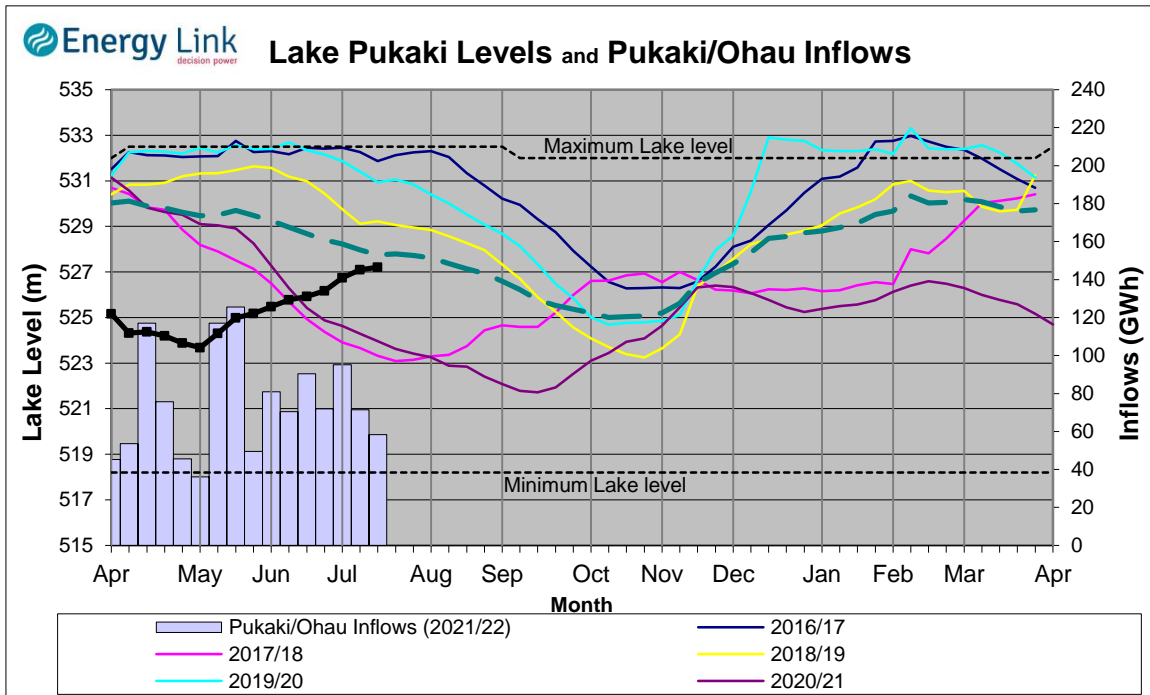
Lake Levels - Lake Tekapo ended the week 46% nominally full with storage falling to 392 GWh.

Inflows - Inflows into tekapo decreased 7.1% to 51 GWh.

Generation - Average Tekapo generation decreased 5.3% to 161.9 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 61% nominally full with storage increasing to 1133 GW

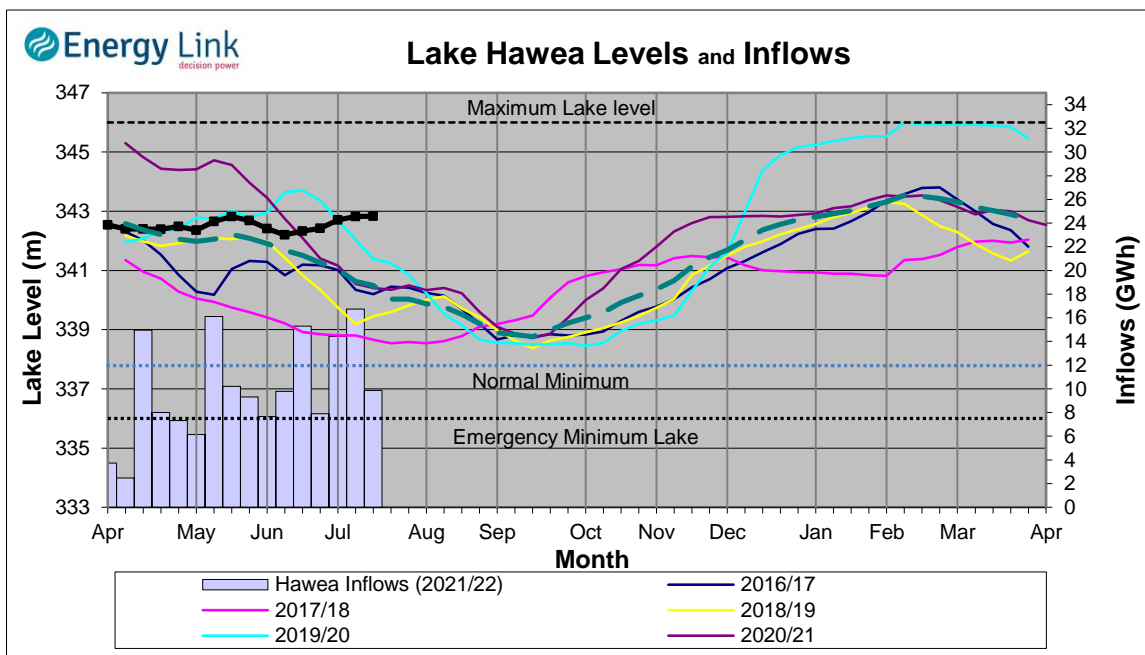
Inflows - Inflows into the Waitaki System decreased 18.4% to 58 GWh.

Generation - Average Waikati generation increased 17.2% to 654.6 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 32 cumecs while Waitaki River flows were higher than last week averaging 271 cumecs.

Clutha System



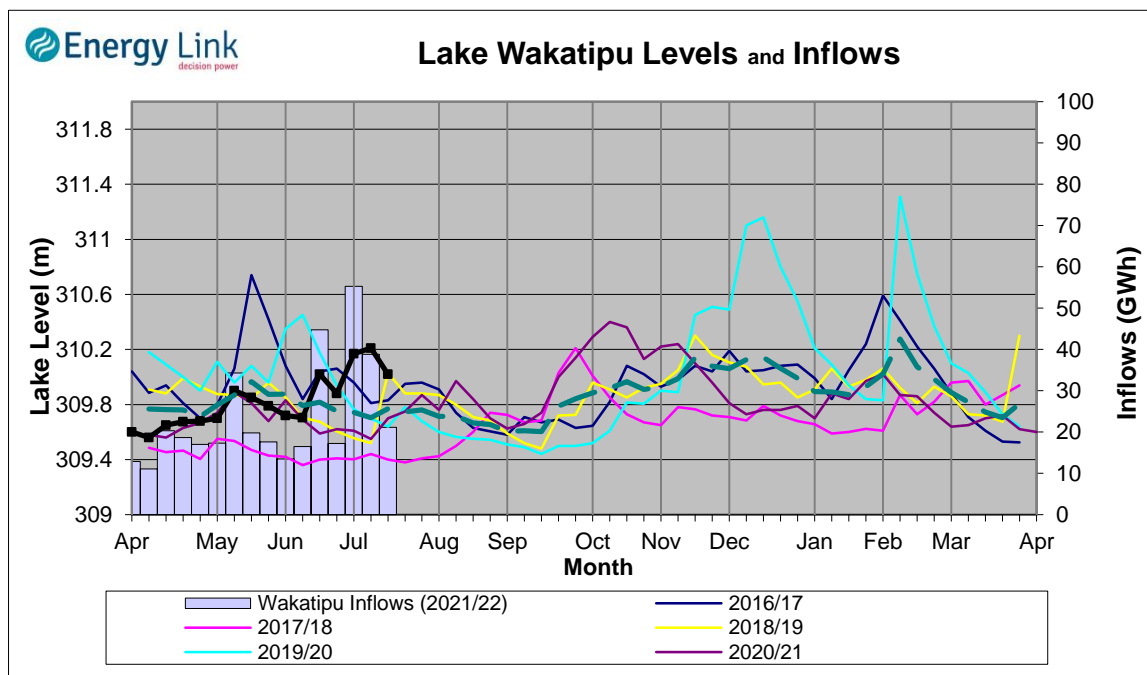
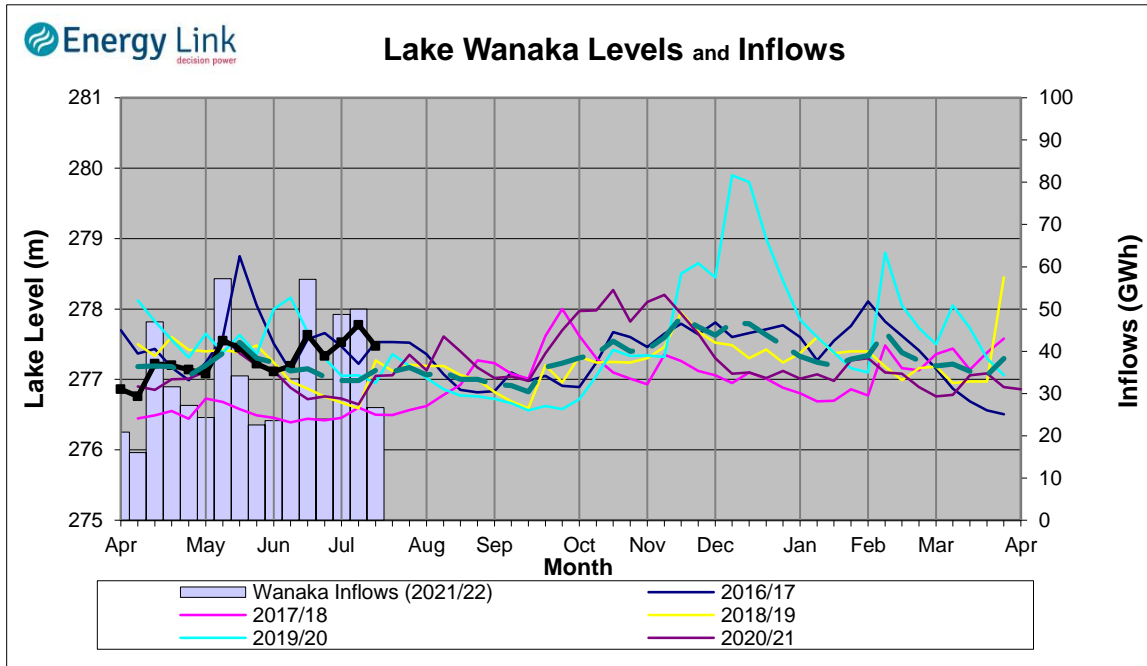
Lake Levels - Total storage for the Clutha System decreased 8.7% to 304 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 59.6%, 60.6% and 55% nominally full respectively.

Inflows - Total Inflows into the Clutha System 45.3% lower at 58 GWh.

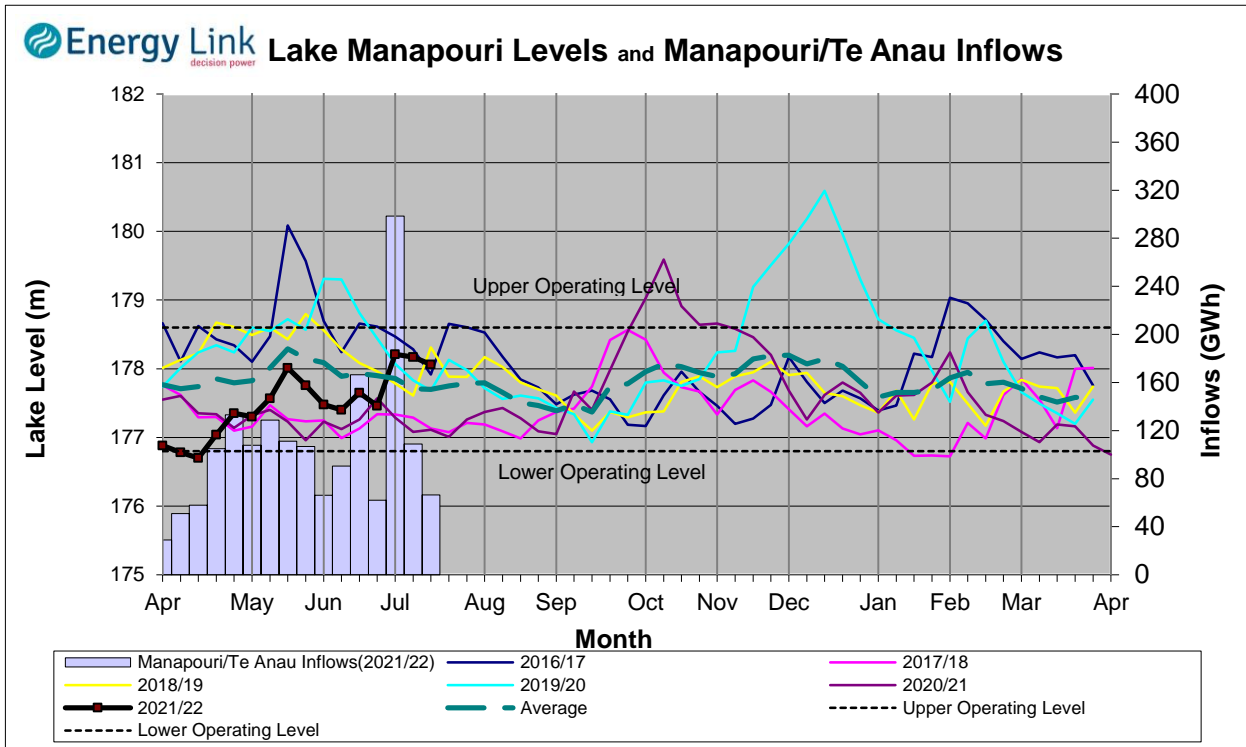
Generation - Average generation was 4.8% higher at 594 MW.

Hydro Spill - Estimate Spill is 0 cumecs

River Flows - Total outflows from the lakes and Shotover River fell to 621.8 cumecs. This comprised of 61 cumecs from Lake Hawea, 267 cumecs from Lake Wanaka, 228 cumecs from Lake Wakatipu and 66 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 15% to 352 GWh with Lake Manapouri ending the week 80.1% nominally full and Lake Te Anau ending the week 80.4% nominally full.

Inflows - Total inflows into the Manapouri System decreased 38.8% to 67 GWh.

Generation - Average generation was 1.2% lower at 751 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 20.8 cumecs.

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

