



Thursday, 24 June 2021

Issue: 1262

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)	1612	396	2008	97	2105
Storage Change (GWh)	12	-64	-52	27	-25

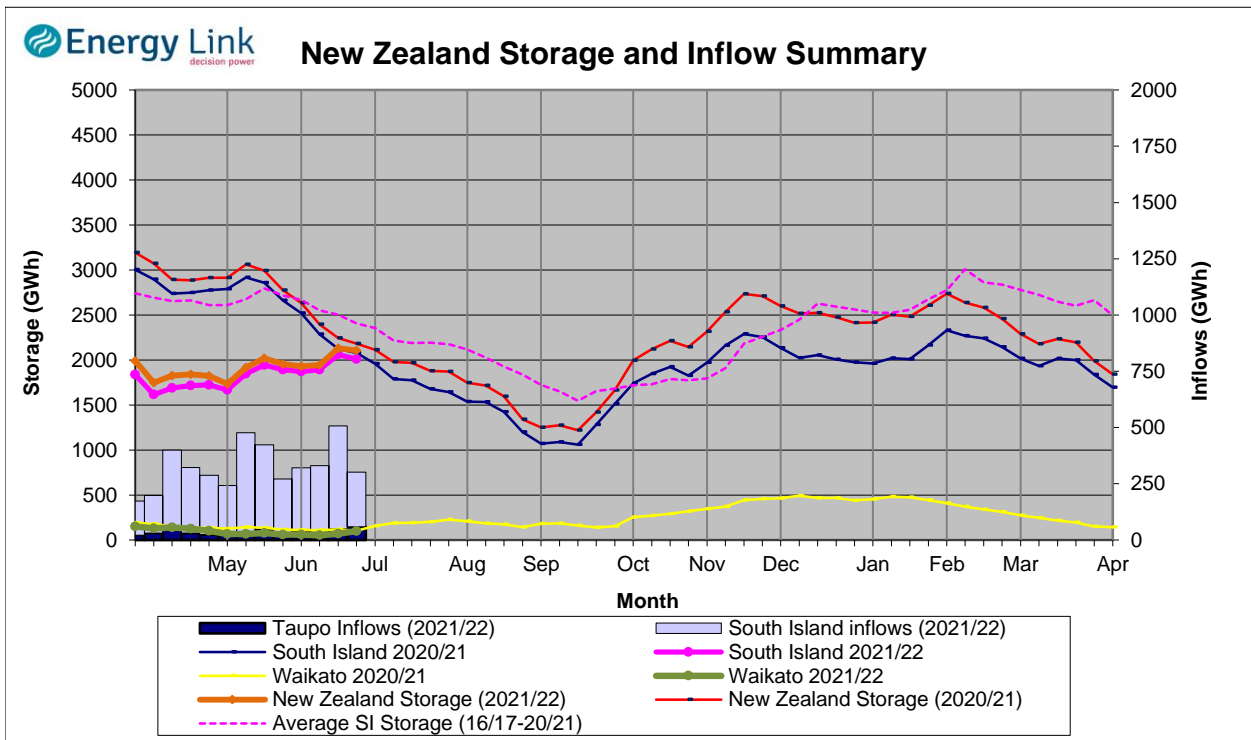
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1898	97	1996

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 25 GWh over the last week. South Island controlled storage increased 0.7% to 1612 GWh; South Island uncontrolled storage decreased 13.9% to 396 GWh; with Taupo storage increasing 38.2% to 97 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	286	270	1452	97	2105
Last Week	324	293	1443	71	2130
% Change	-11.8%	-7.6%	0.6%	38.2%	-1.2%
Inflow (GWh)					
This Week	62	49	131	59	301
Last Week	166	117	173	51	507
% Change	-62.7%	-58.1%	-24.3%	16.6%	-40.6%

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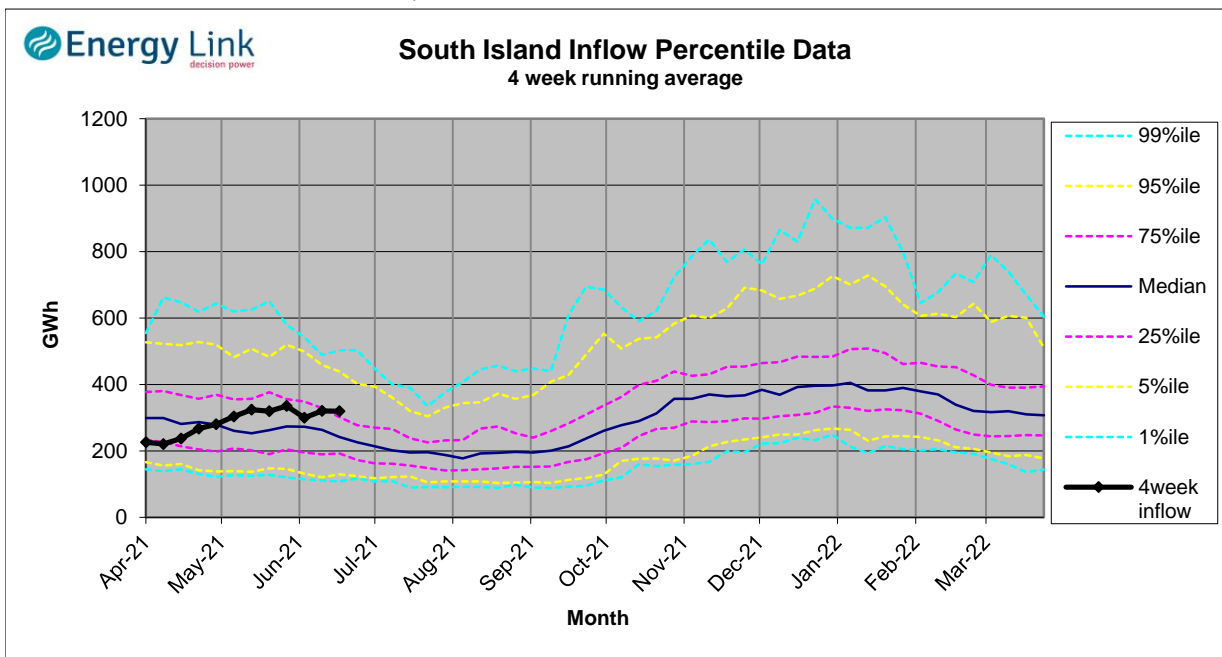
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.46	94	42	-5
	Te Anau	202.14	192		
Clutha	Wakatipu	309.88	48	178	44
	Wanaka	277.33	62	249	24
	Hawea	342.42	161	29	-38
Waitaki	Tekapo	706.76	455		
	Pukaki	526.17	997		
Waikato	Taupo	356.09	97		

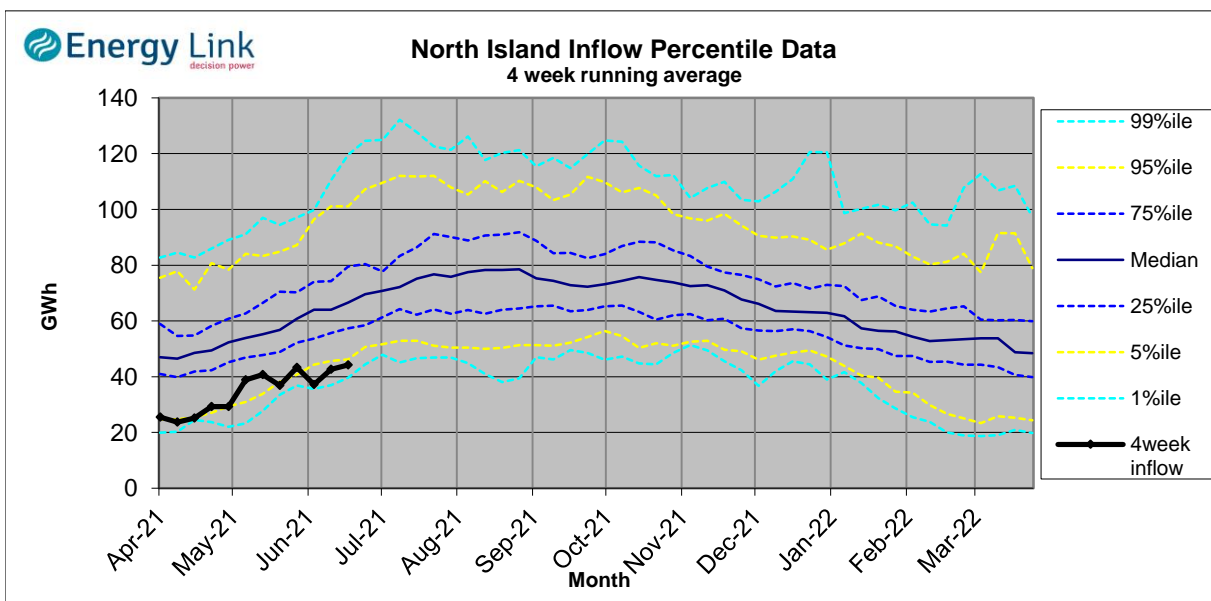
Inflow Summary

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.

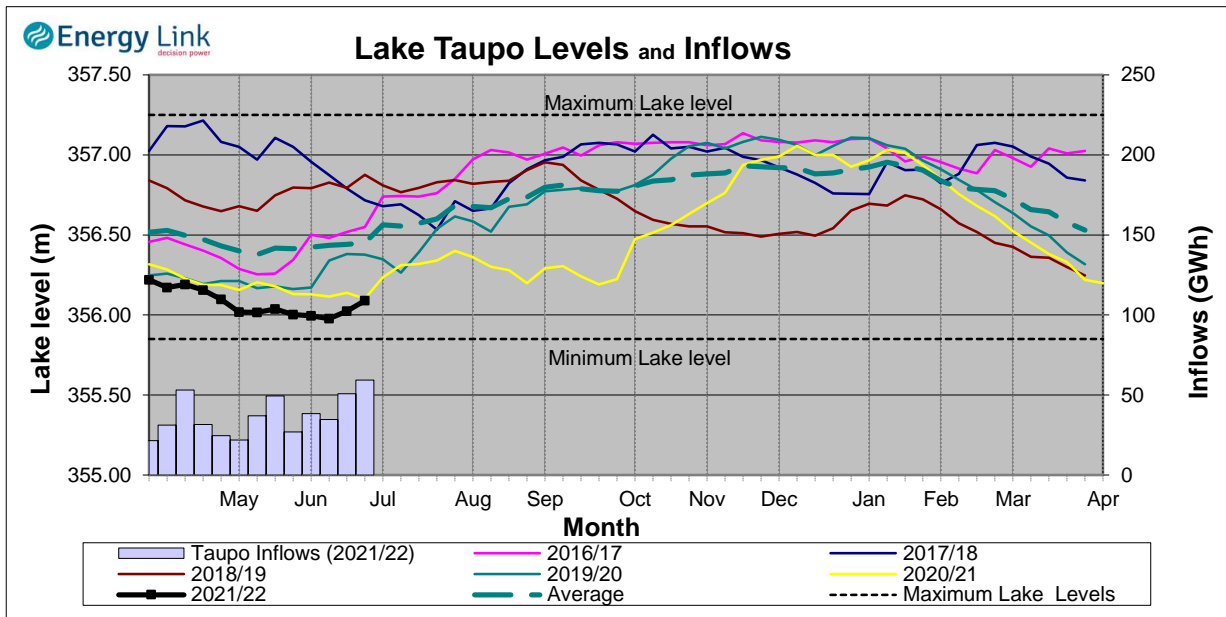
South Island Inflows - The past four weeks of S. I. inflows rank as the 20th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 4th driest on record.



Waikato System

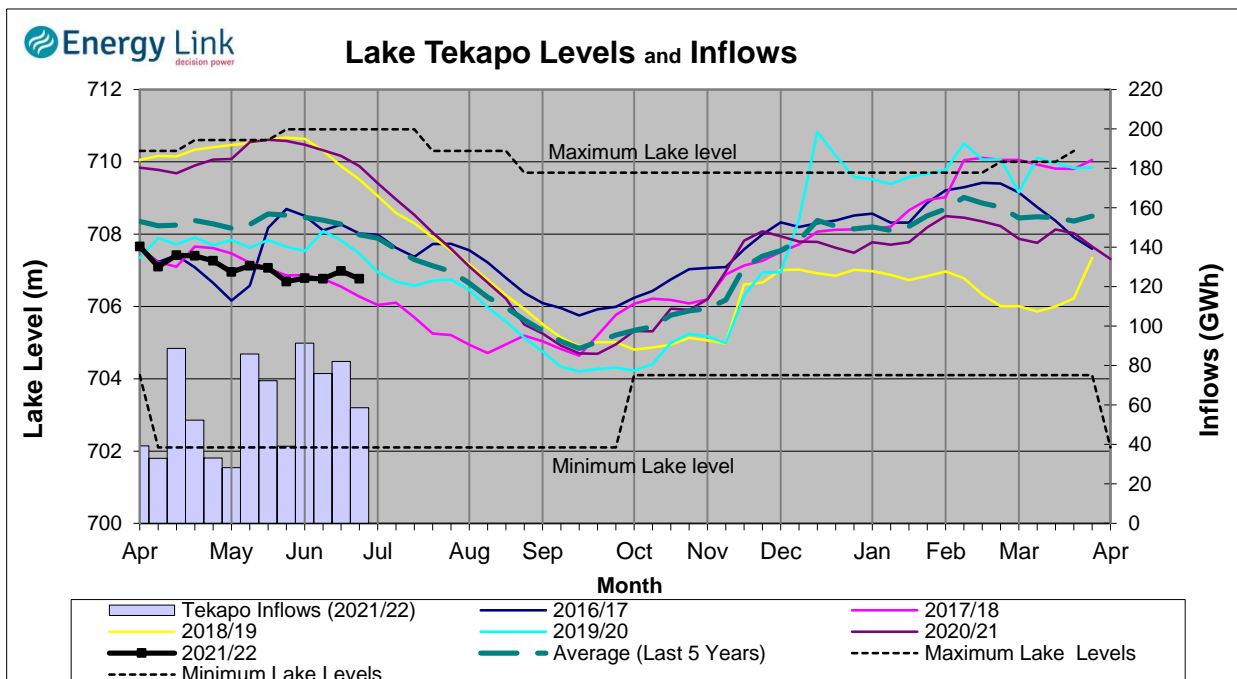


Lake Levels - Lake Taupo storage increased to 17.1% of nominal full at 97 GWh.

Inflows - Inflows increased 16.6% to 59 GWh.

Generation - Average generation increased 3.5% to 282.2 MW.

Tekapo



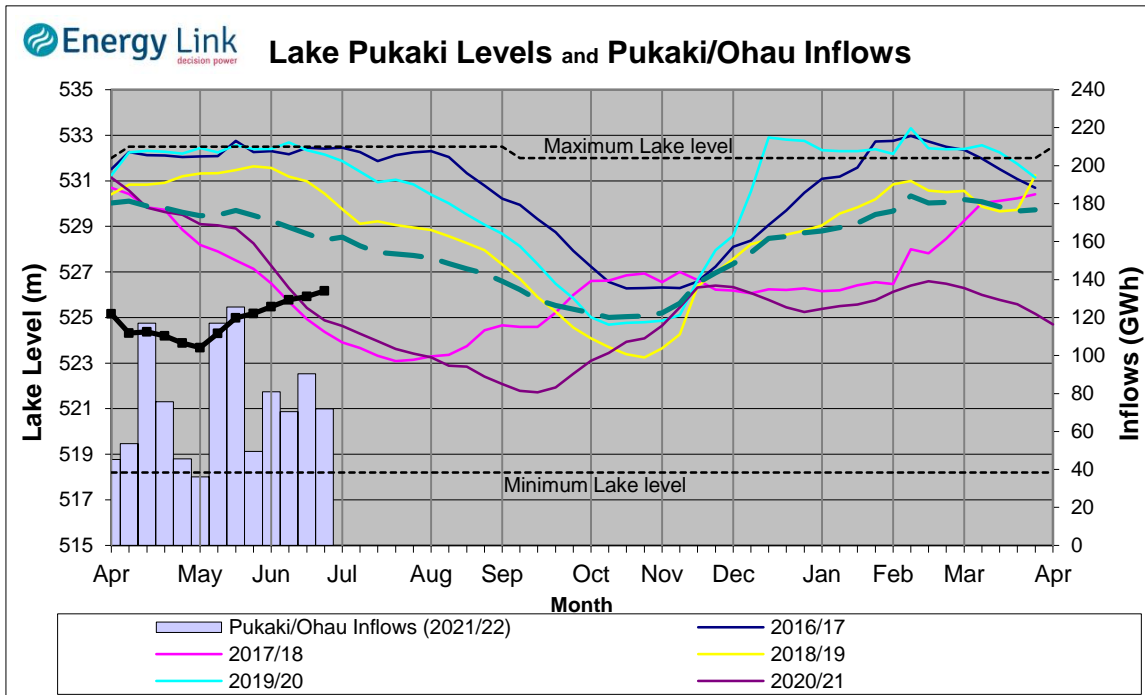
Lake Levels - Lake Tekapo ended the week 53% nominally full with storage falling to 455 GWh.

Inflows - Inflows into tekapo decreased 28.6% to 59 GWh.

Generation - Average Tekapo generation increased 35.4% to 170.6 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 54% nominally full with storage increasing to 997 GWh

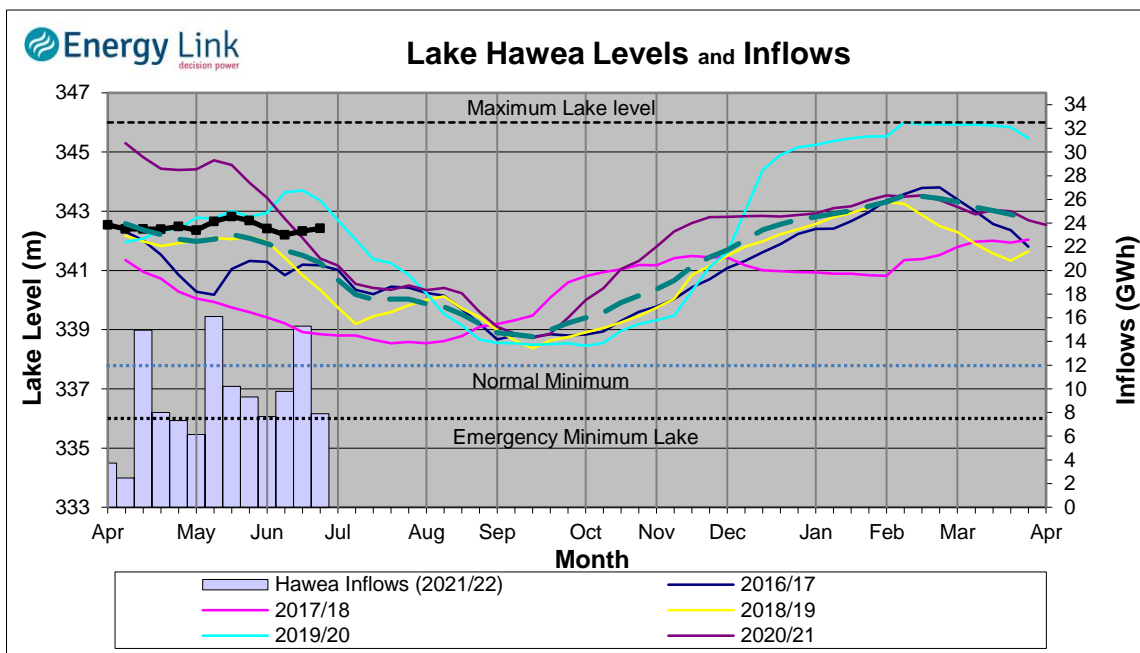
Inflows - Inflows into the Waitaki System decreased 20.4% to 72 GWh.

Generation - Average Waikati generation decreased 12.1% to 667.4 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 lower than last week averaging 291.5 cumecs.

Clutha System



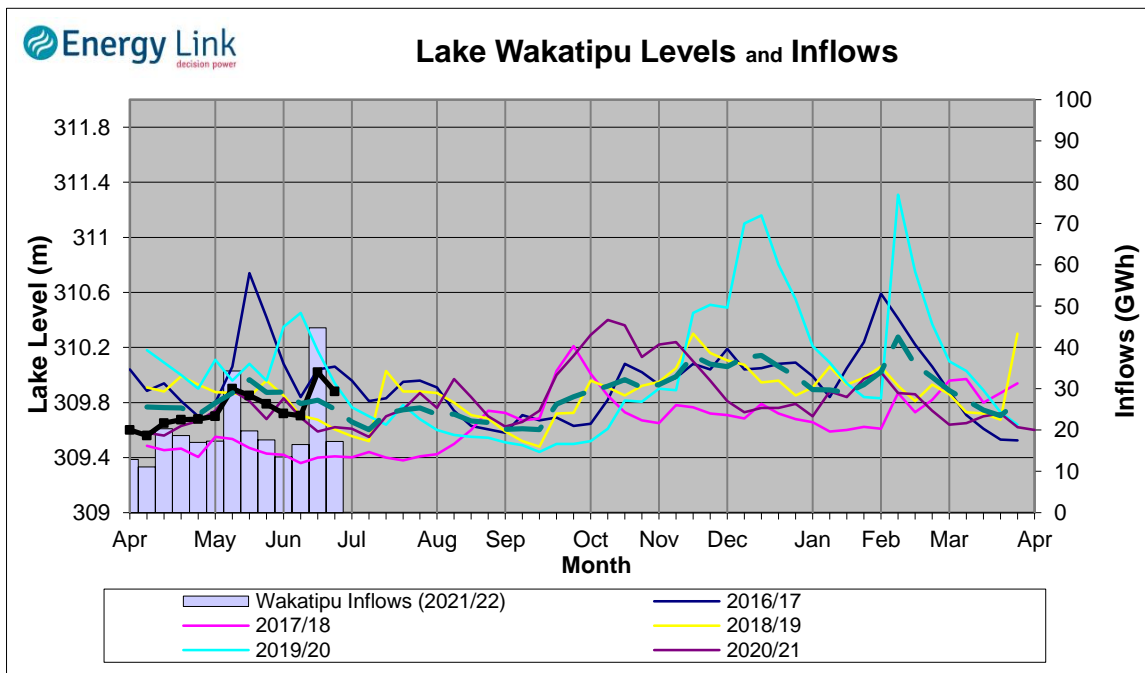
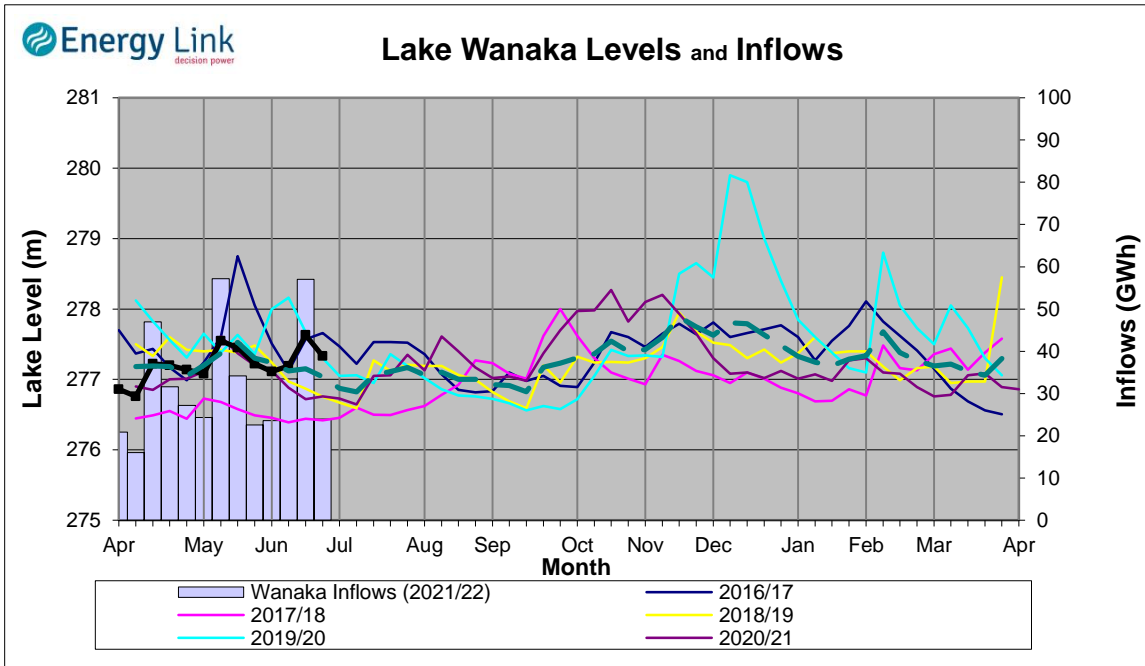
Lake Levels - Total storage for the Clutha System decreased 7.6% to 270 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 54.4%, 54.3% and 45% nominally full respectively.

Inflows - Total Inflows into the Clutha System 58.1% lower at 49 GWh.

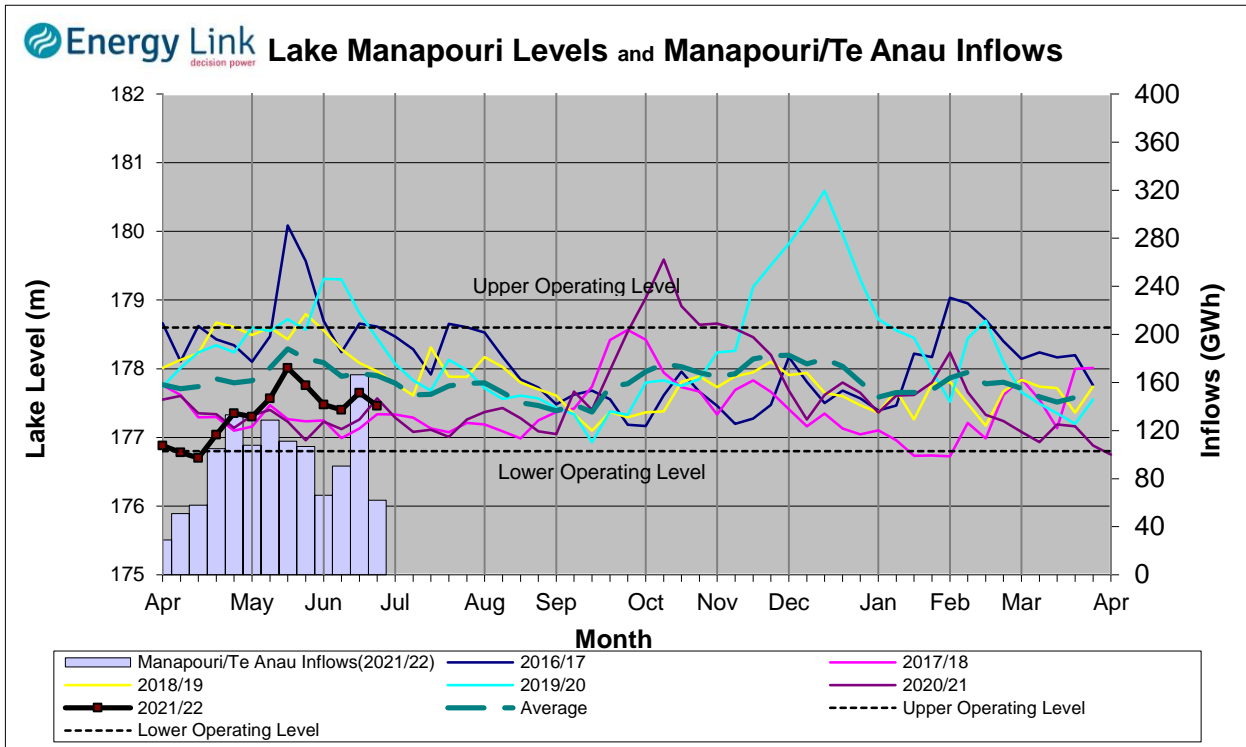
Generation - Average generation was 5.7% higher at 498 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 508.9 cumecs. This comprised of 29 cumecs from Lake Hawea, 249 cumecs from Lake Wanaka, 178 cumecs from Lake Wakatipu and 52 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 11.8% to 286 GWh with Lake Manapouri ending the week 58.1% nominally full and Lake Te Anau ending the week 69.6% nominally full.

Inflows - Total inflows into the Manapouri System decreased 62.7% to 62 GWh.

Generation - Average generation was 9.4% higher at 598 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 42.2 cumecs.

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

