



Thursday, 10 June 2021

Issue: 1260

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)	1552	339	1891	52	1943
Storage Change (GWh)	28	-8	20	-7	13

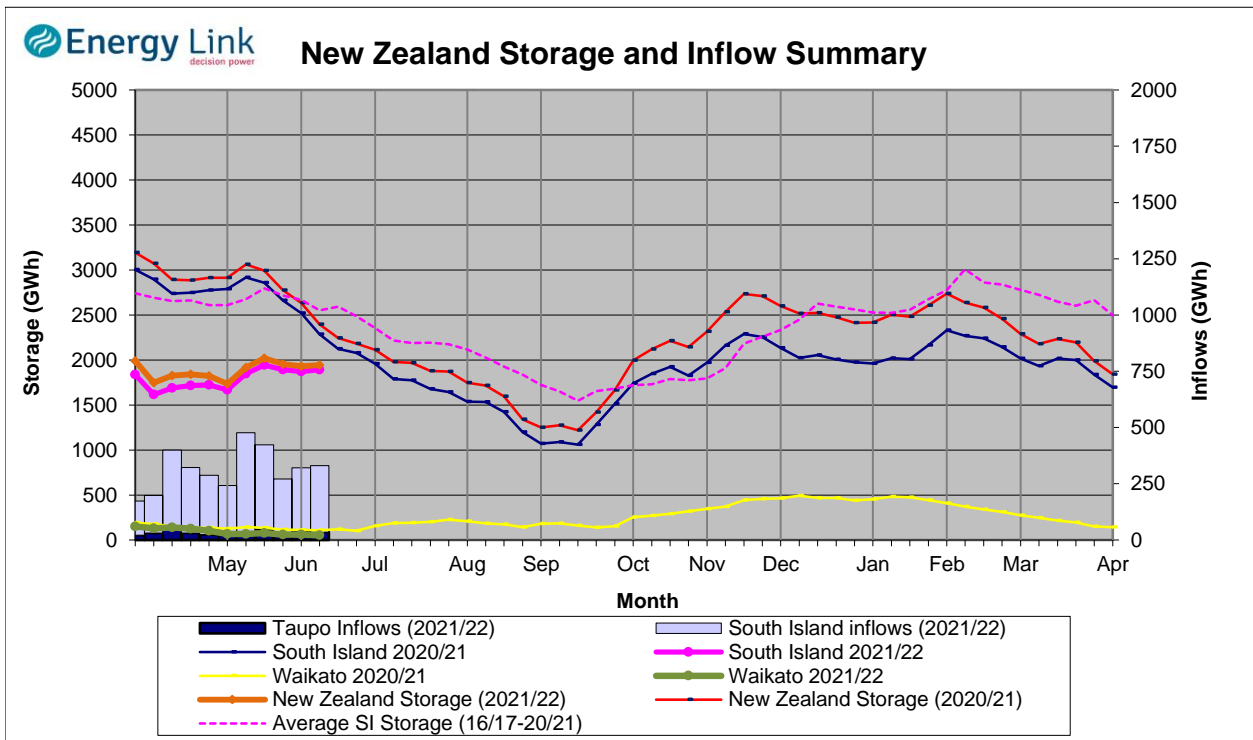
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1802	52	1853

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 increased 12.8 GWh over the last week. South Island controlled storage increased 1.8% to 1552 GWh; South Island uncontrolled storage decreased 2.3% to 339 GWh; with Taupo storage decreasing 11.8% to 52 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	249	242	1400	52	1943
Last Week	260	247	1364	59	1930
% Change	-4.1%	-2.0%	2.6%	-11.8%	0.7%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	90	60	146	35	331
Last Week	66	45	172	38	322
% Change	36.8%	33.4%	-15.1%	-9.8%	3.0%

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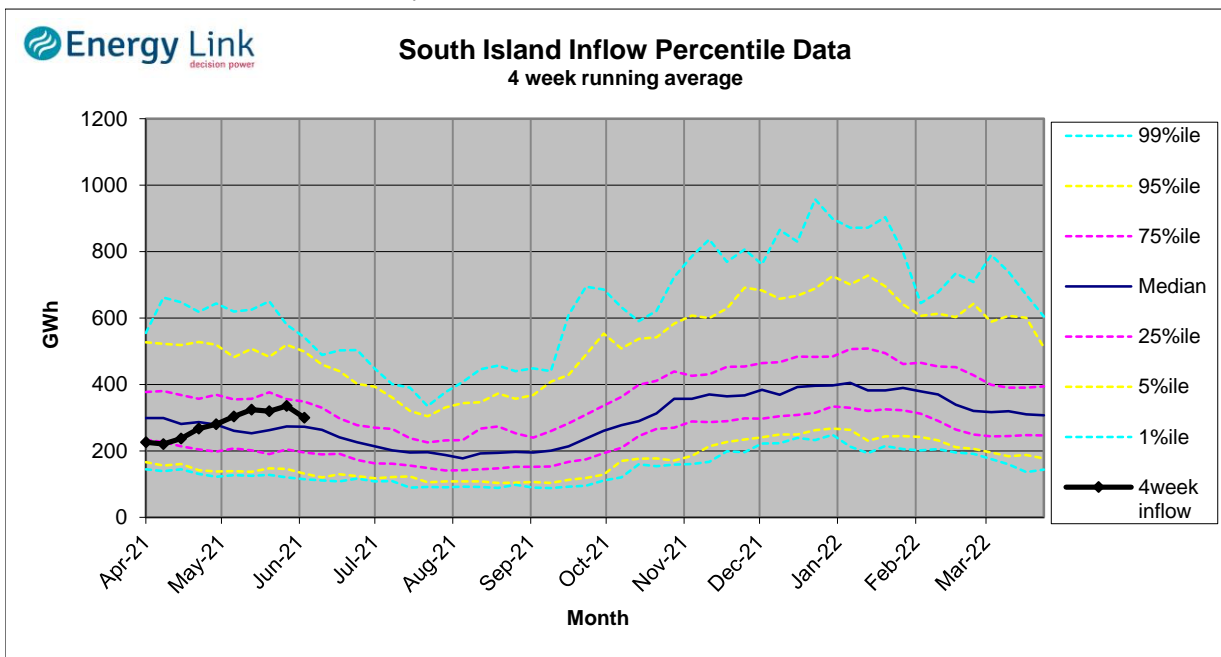
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.40	91	16	-25
	Te Anau	201.92	159		
Clutha	Wakatipu	309.71	34	113	-8
	Wanaka	277.19	55	189	3
	Hawea	342.20	153	113	-3
Waitaki	Tekapo	706.76	455		
	Pukaki	525.77	945		
Waikato	Taupo	355.98	52		

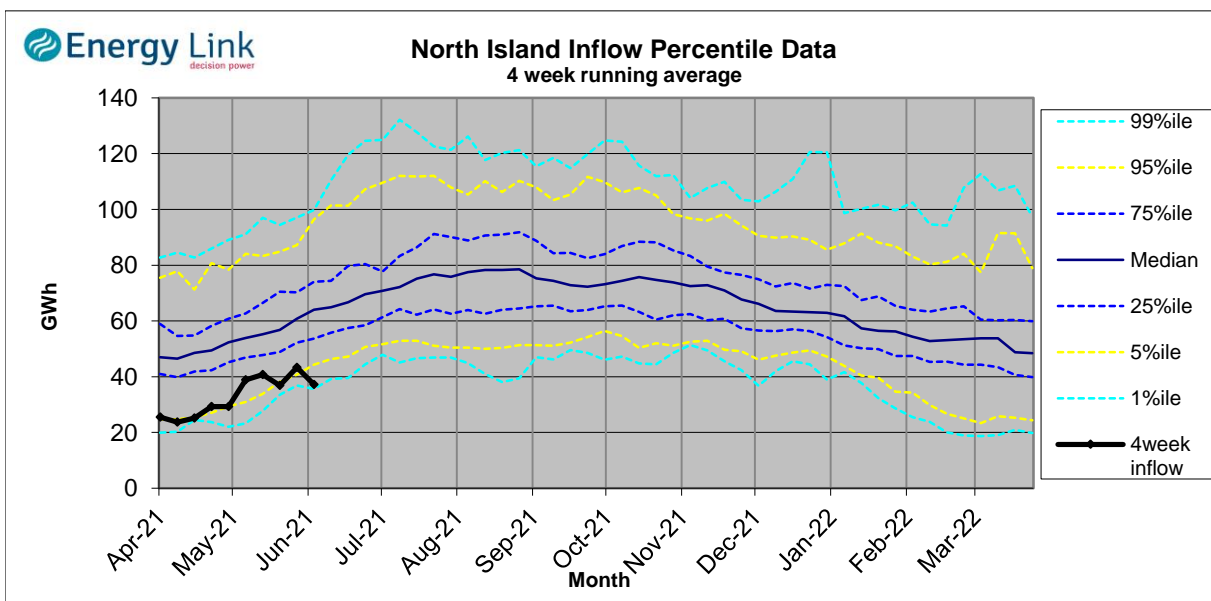
Inflow Summary

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.

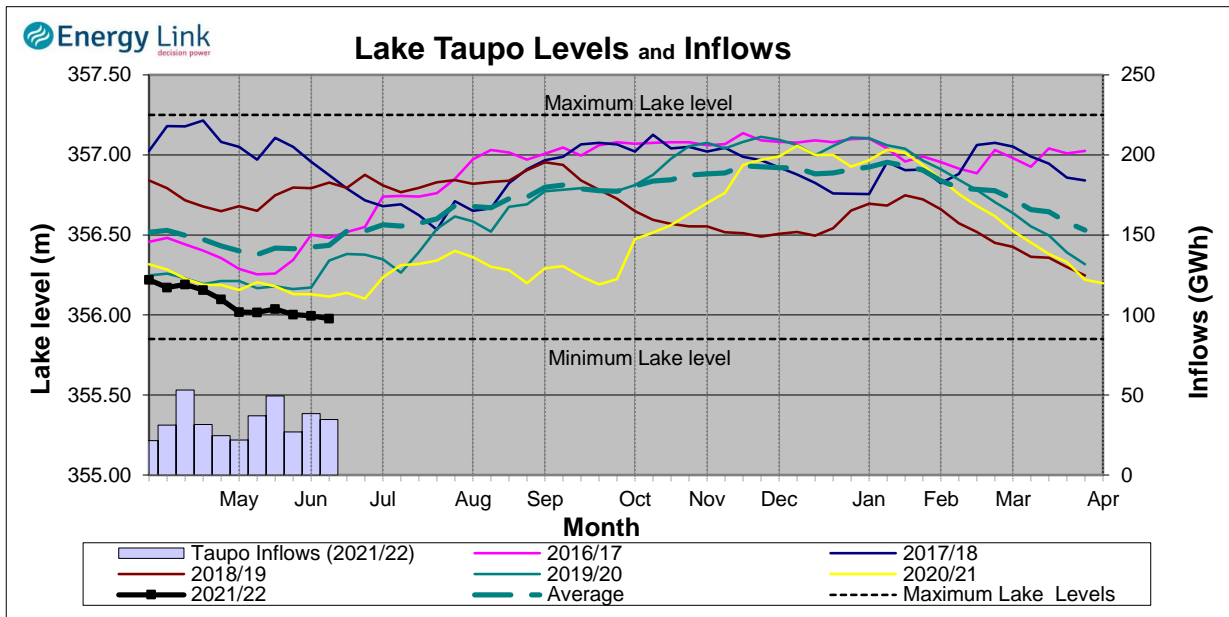
South Island Inflows - The past four weeks of S. I. inflows rank as the 36th wettest on record.



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



Waikato System

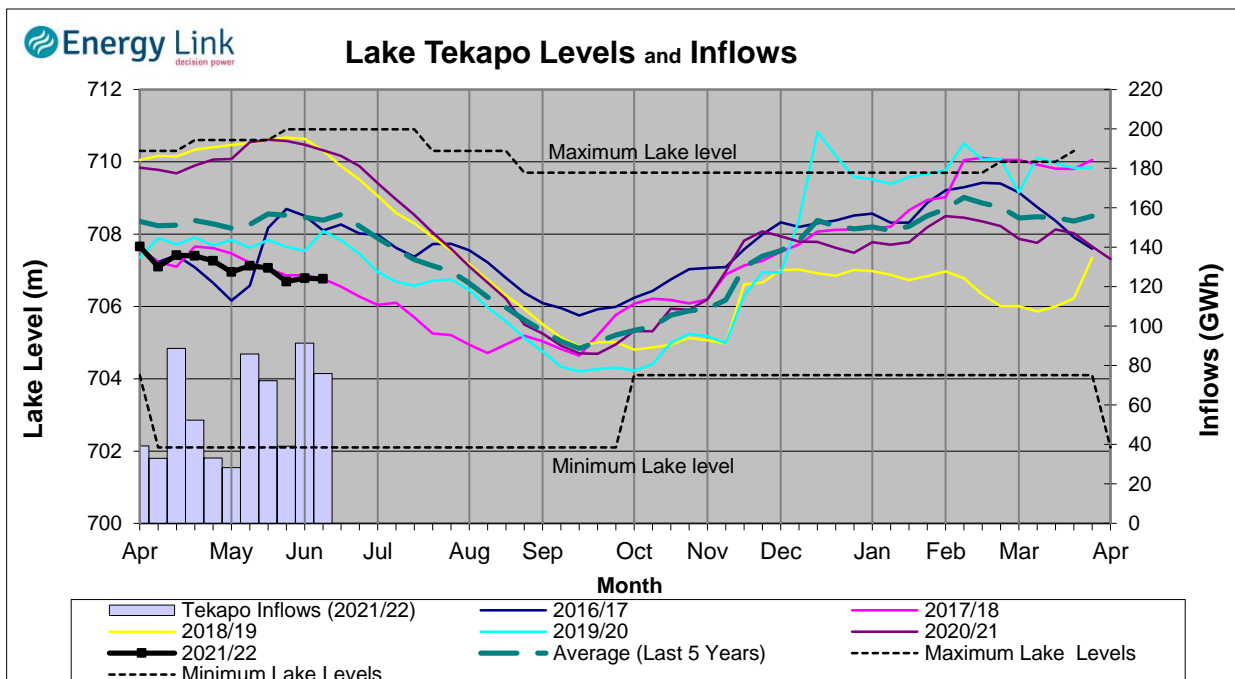


Lake Levels - Lake Taupo storage fell to 9.1% of nominal full at 52 GWh.

Inflows - Inflows decreased 9.8% to 35 GWh.

Generation - Average generation decreased 2.7% to 301.9 MW.

Tekapo



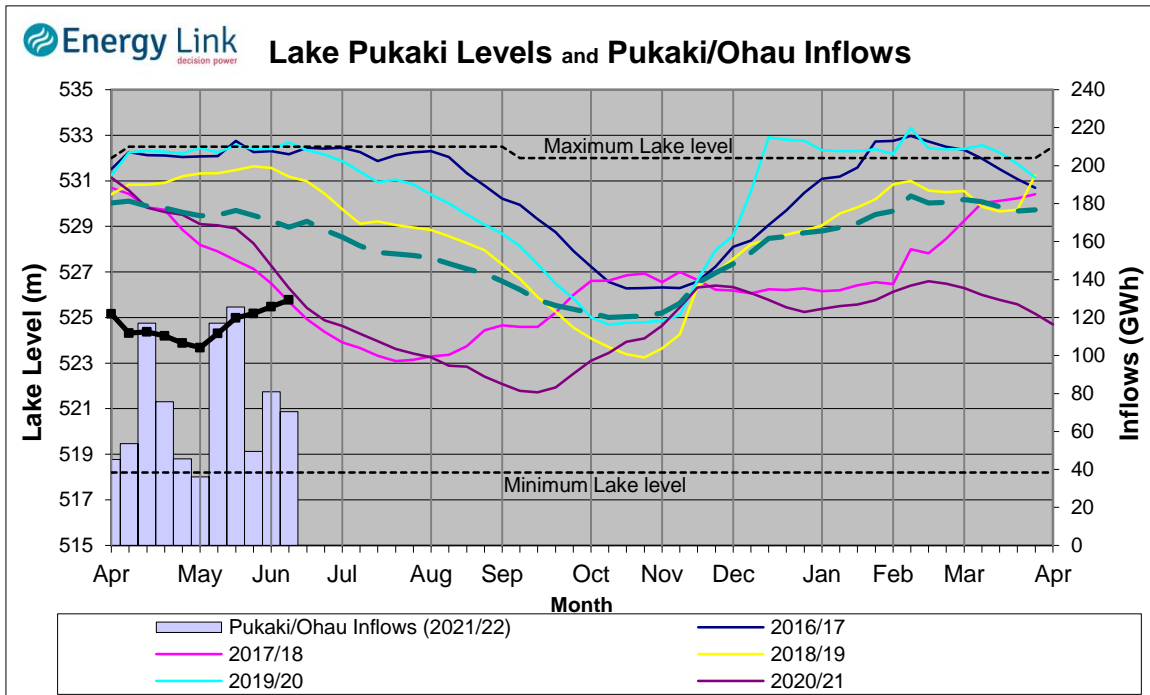
Lake Levels - Lake Tekapo ended the week 56% nominally full with storage falling to 455 GWh.

Inflows - Inflows into tekapo decreased 16.9% to 76 GWh.

Generation - Average Tekapo generation decreased 4.7% to 163.8 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 51% nominally full with storage increasing to 945 GWh

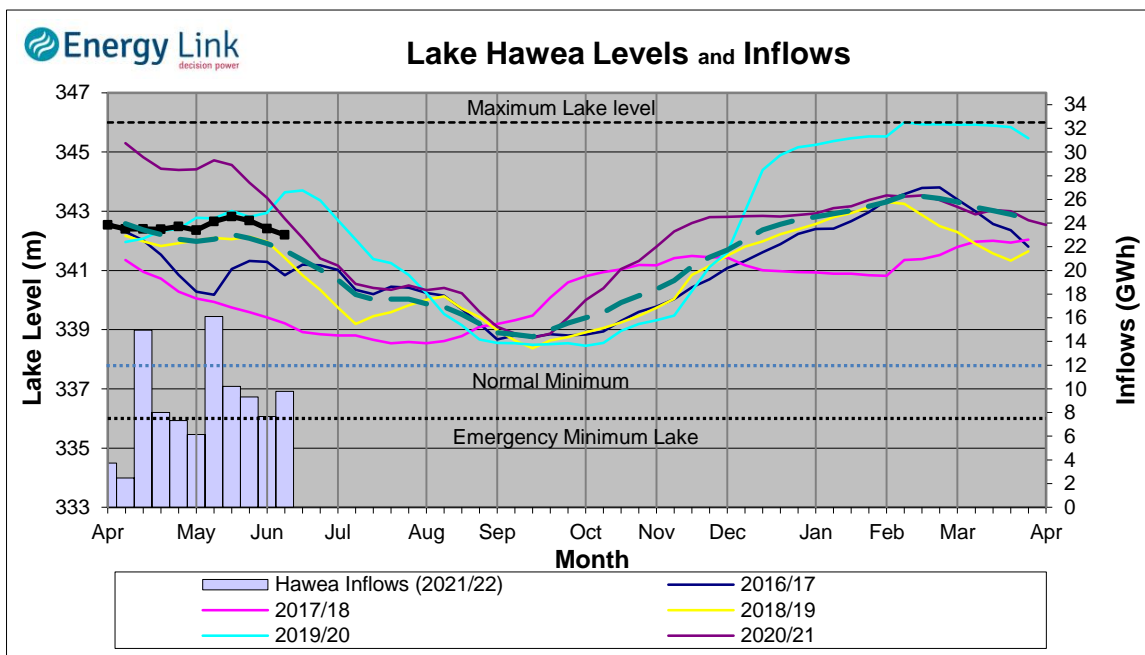
Inflows - Inflows into the Waitaki System decreased 12.9% to 70 GWh.

Generation - Average Waikati generation decreased 13.1% to 617.4 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 26 cumecs while Waitaki River flows were lower than last week averaging 278.1 cumecs.

Clutha System



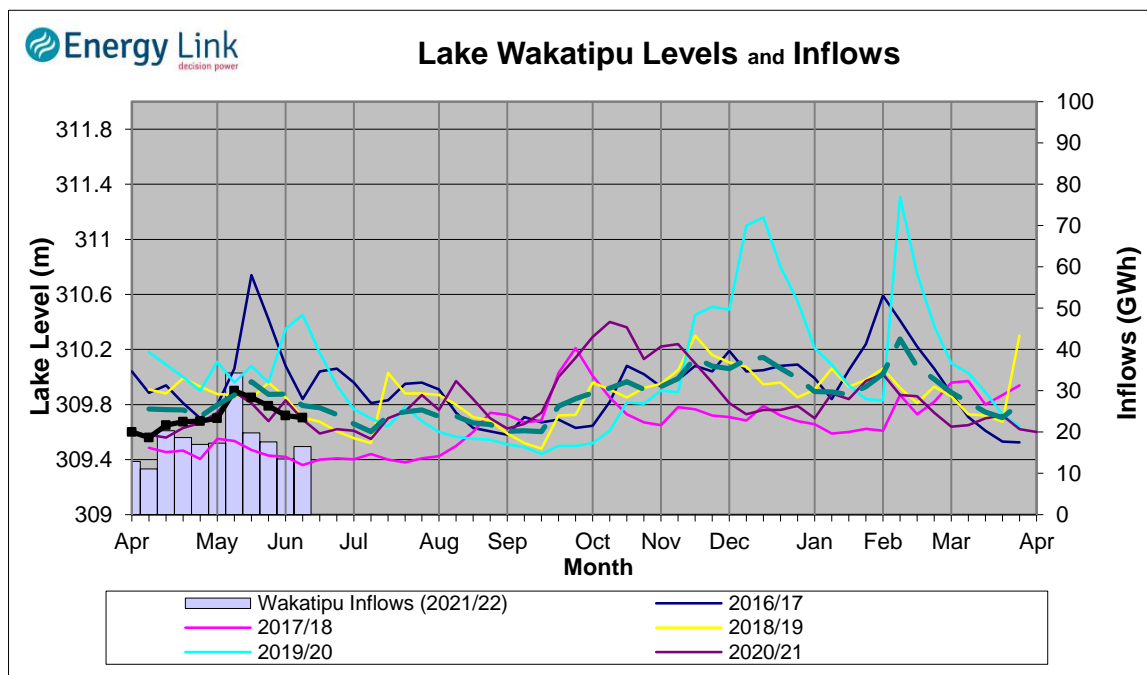
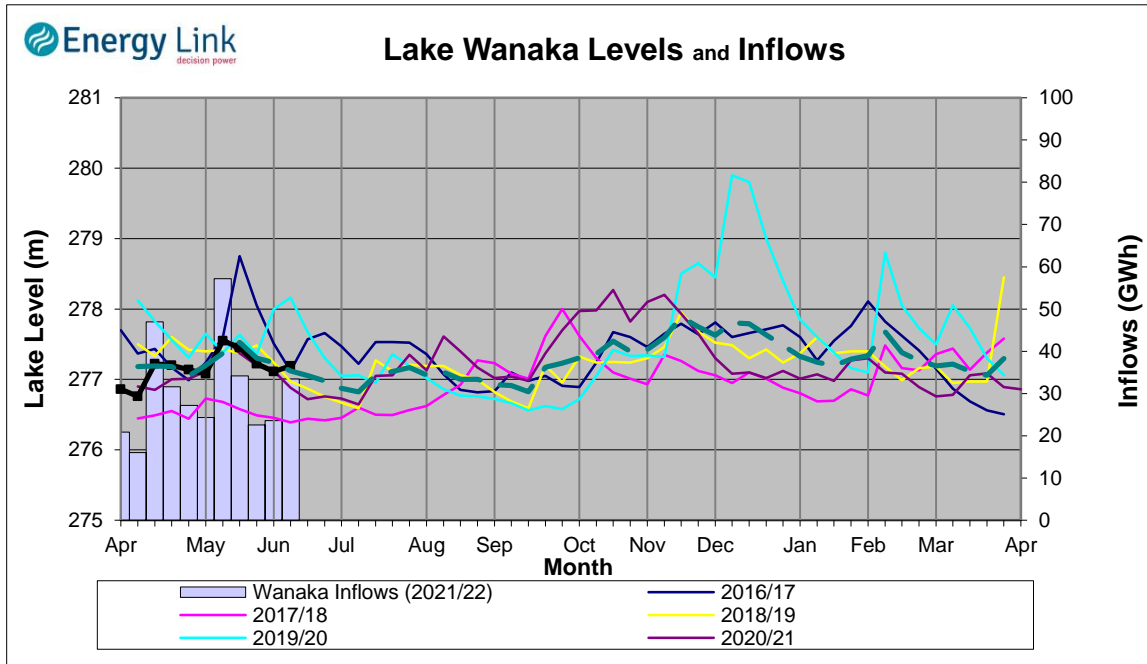
Lake Levels - Total storage for the Clutha System decreased 2% to 242 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 51.6%, 48.2% and 32.5% nominally full respectively.

Inflows - Total Inflows into the Clutha System 33.4% higher at 60 GWh.

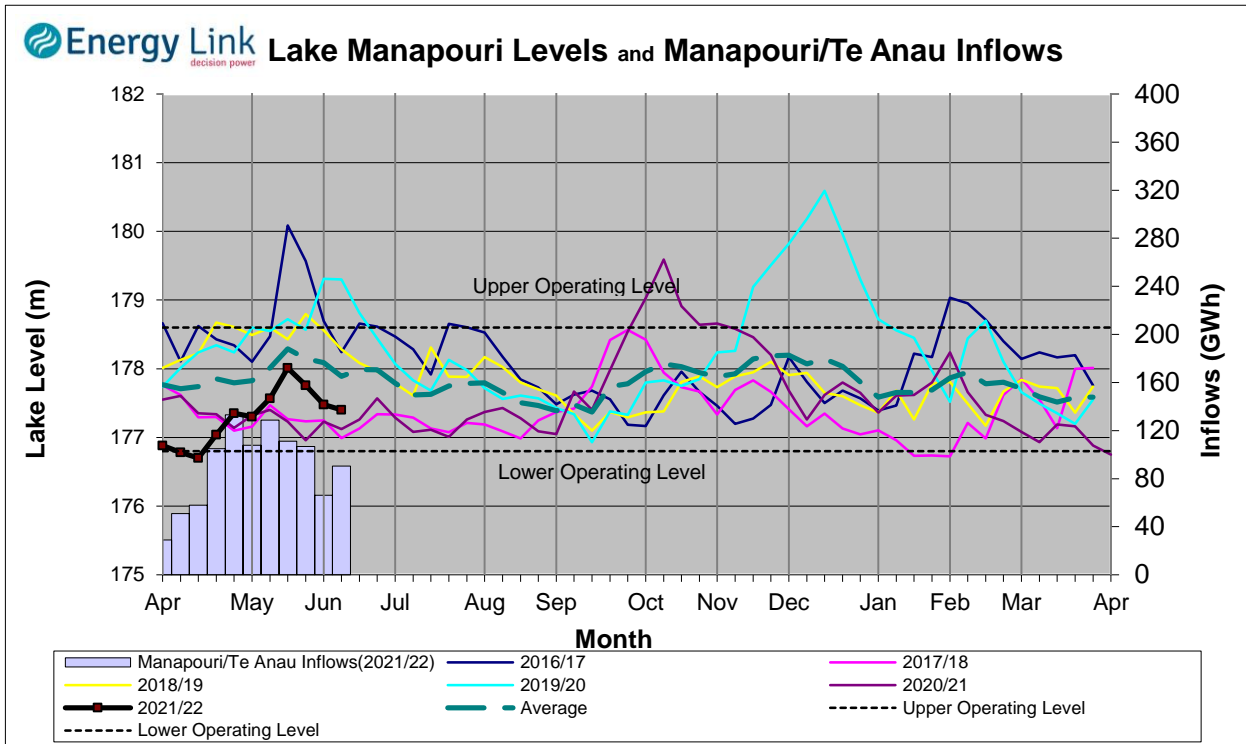
Generation - Average generation was 0.7% lower at 453 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 462.5 cumecs. This comprised of 113 cumecs from Lake Hawea, 189 cumecs from Lake Wanaka, 113 cumecs from Lake Wakatipu and 48 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 4.1% to 249 GWh with Lake Manapouri ending the week 55.9% nominally full and Lake Te Anau ending the week 57.6% nominally full.

Inflows - Total inflows into the Manapouri System increased 36.8% to 90 GWh.

Generation - Average generation was 10.3% lower at 602 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 15.9 cumecs.

Operating Range - Lake Manapouri is operating in the lower end of its 'Main operating range' while Lake Te Anau is operating in the middle of its 'Main operating range'.

