



Thursday, 27 May 2021

Issue: 1258

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)	1487	404	1891	62	1953
Storage Change (GWh)	-19	-34	-52	-15	-67

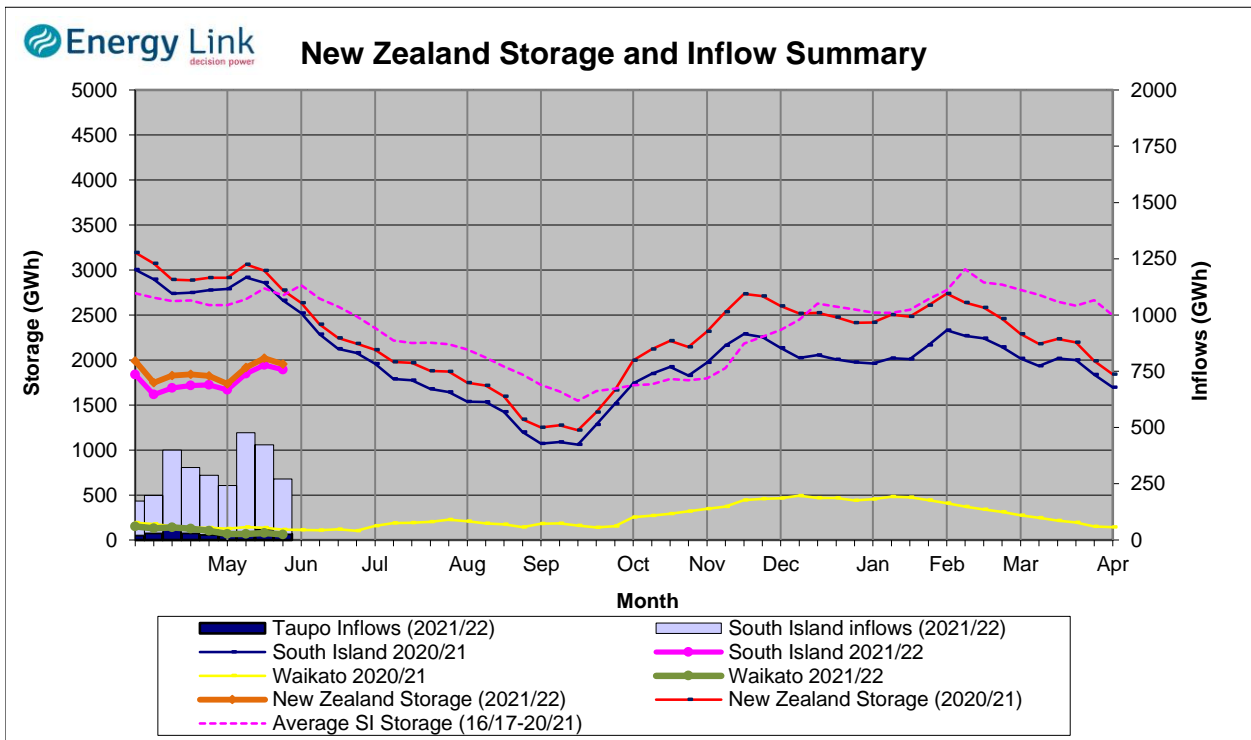
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1794	62	1856

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 67.2 GWh over the last week. South Island controlled storage decreased 1.2% to 1487 GWh; South Island uncontrolled storage decreased 7.7% to 404 GWh; with Taupo storage decreasing 19.1% to 62 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	307	268	1316	62	1953
Last Week	325	289	1330	77	2020
% Change	-5.5%	-7.2%	-1.0%	-19.1%	-3.3%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	107	49	89	27	272
Last Week	111	64	198	49	423
% Change	-3.9%	-22.8%	-55.3%	-45.6%	-35.7%

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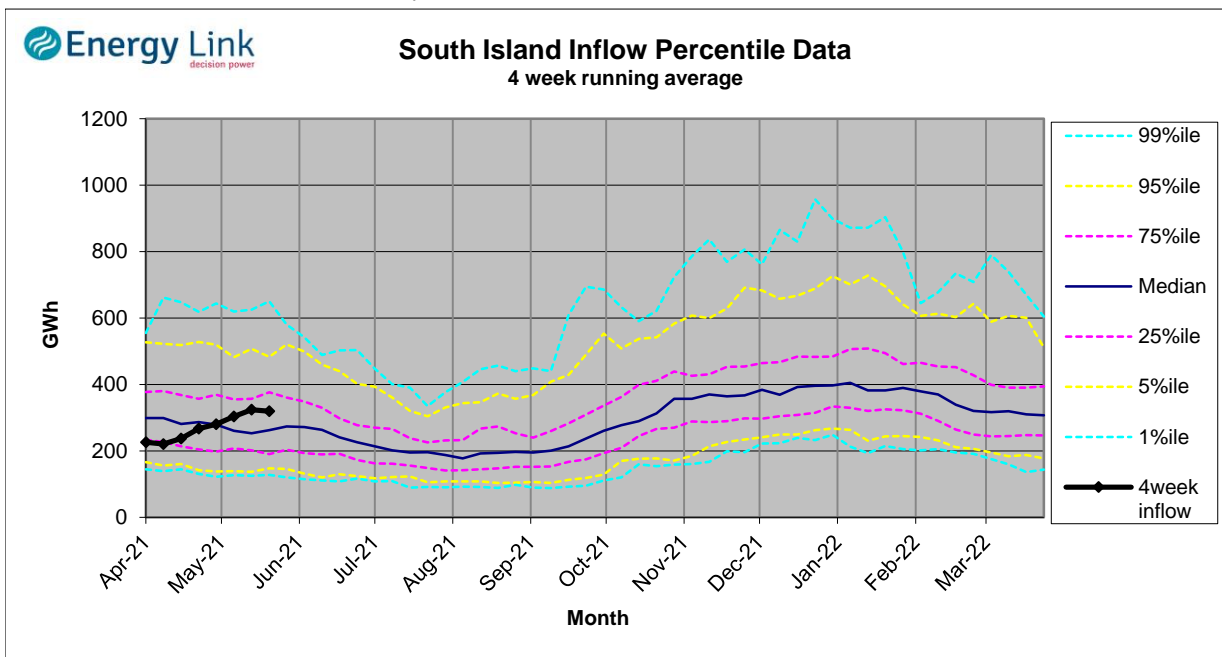
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.76	112	20	-13
	Te Anau	202.16	194		
Clutha	Wakatipu	309.79	41	142	-9
	Wanaka	277.22	57	218	
	Hawea	342.69	171	91	
Waitaki	Tekapo	706.69	448		
	Pukaki	525.18	868		
Waikato	Taupo	356.00	62		66

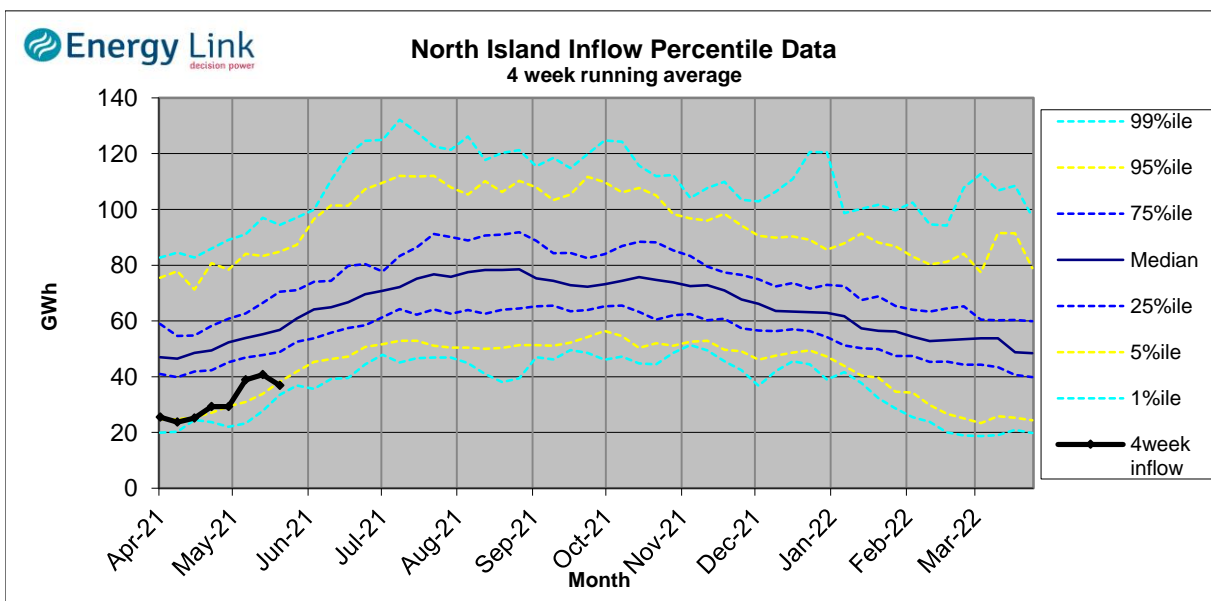
Inflow Summary

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.

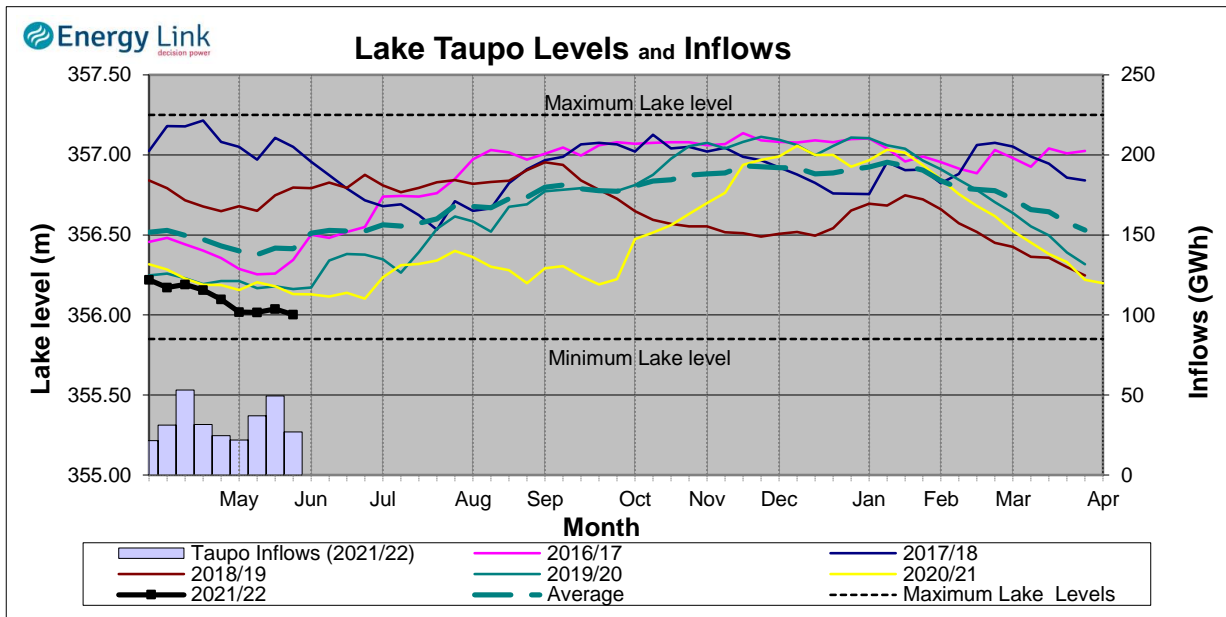
South Island Inflows - The past four weeks of S. I. inflows rank as the 33rd wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 2nd driest on record.



Waikato System

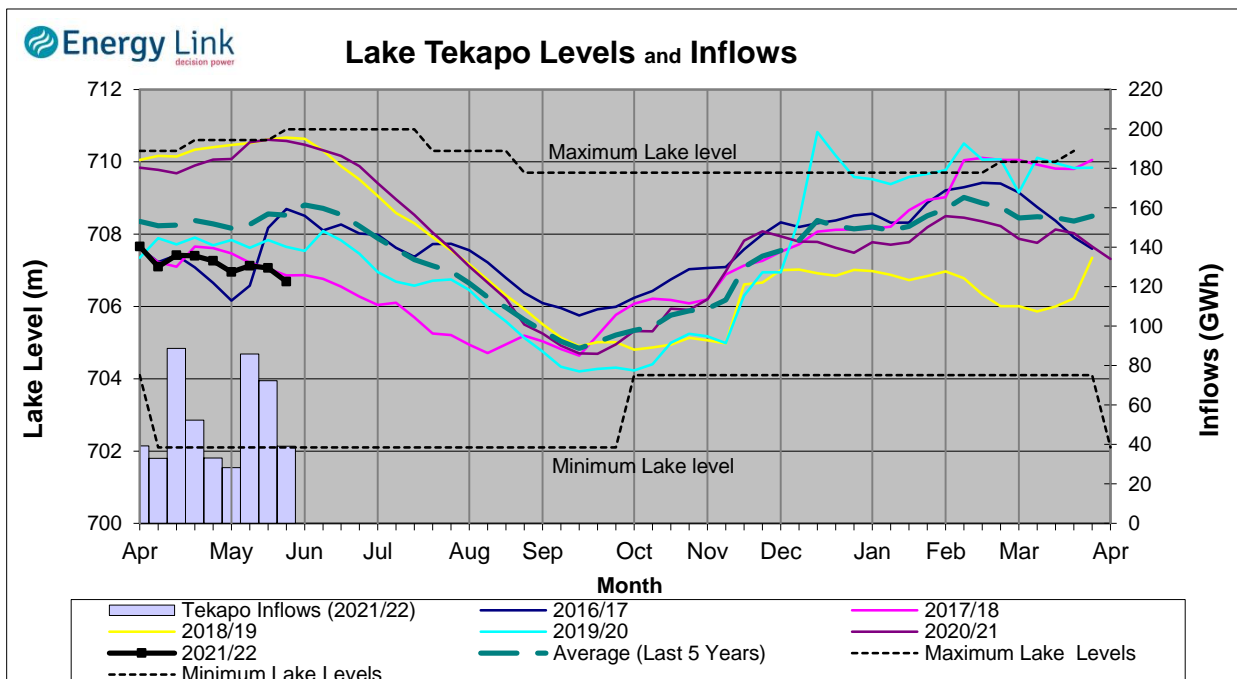


Lake Levels - Lake Taupo storage fell to 10.9% of nominal full at 62 GWh.

Inflows - Inflows decreased 45.6% to 27 GWh.

Generation - Average generation decreased 5.3% to 294.1 MW.

Tekapo



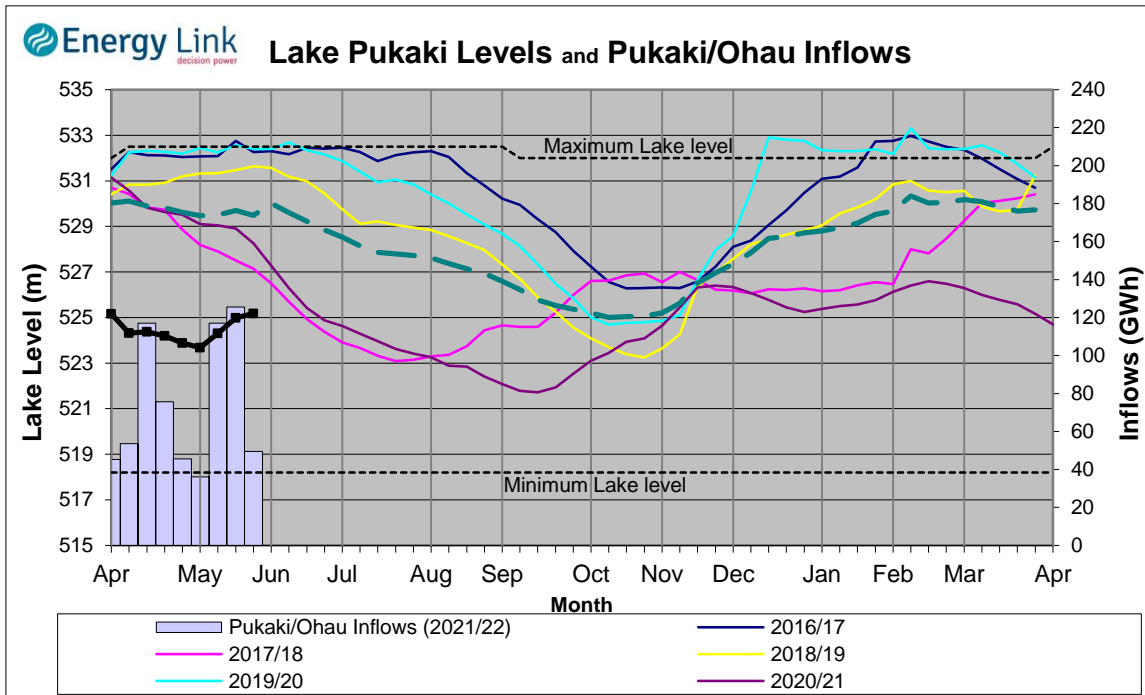
Lake Levels - Lake Tekapo ended the week 55% nominally full with storage falling to 448 GWh.

Inflows - Inflows into tekapo decreased 46.1% to 39 GWh.

Generation - Average Tekapo generation decreased 0.4% to 161 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 47% nominally full with storage increasing to 868 GWh

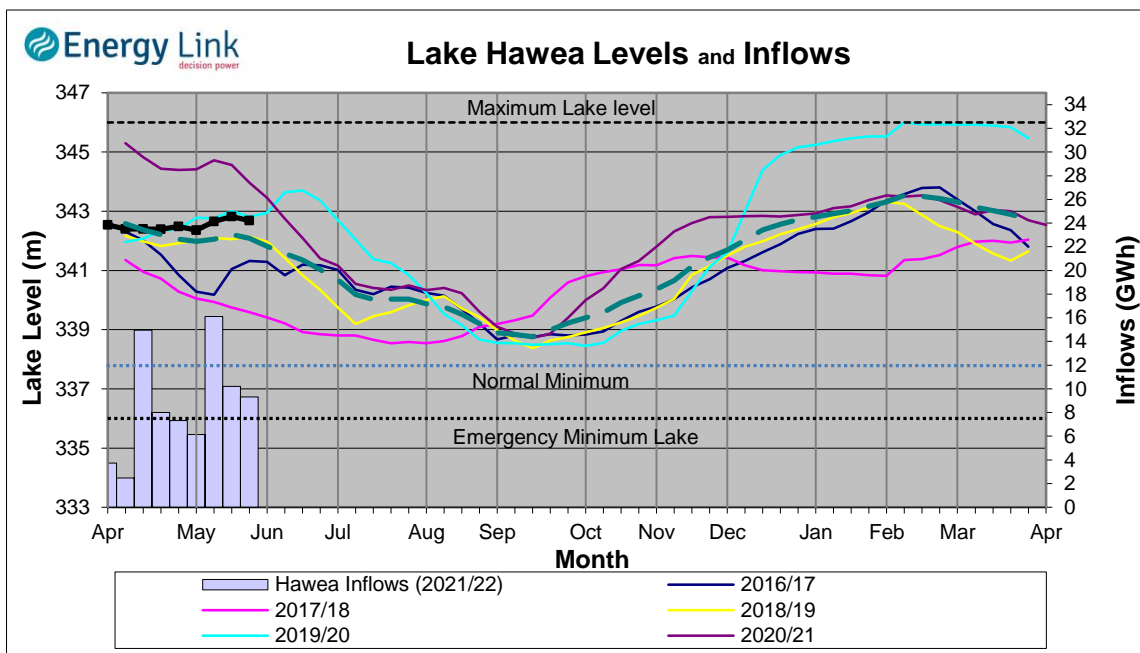
Inflows - Inflows into the Waitaki System decreased 60.6% to 49 GWh.

Generation - Average Waikati generation decreased 16.6% to 521.4 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 19.5 cumecs while Waitaki River flows were lower than last week averaging 214.7 cumecs.

Clutha System



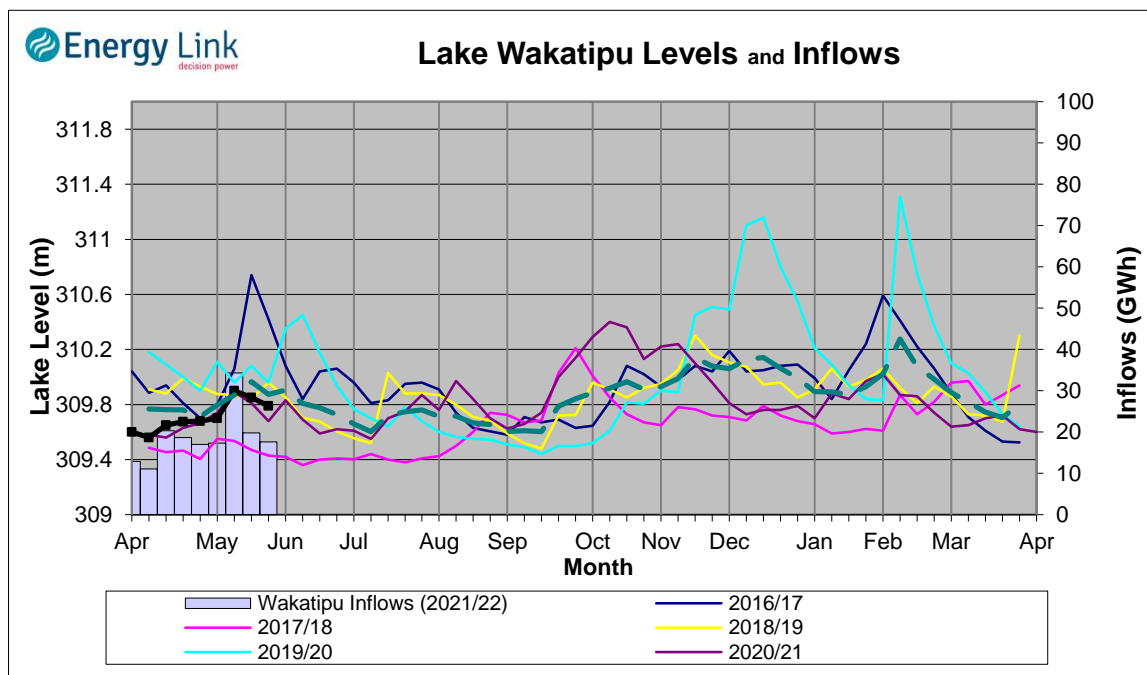
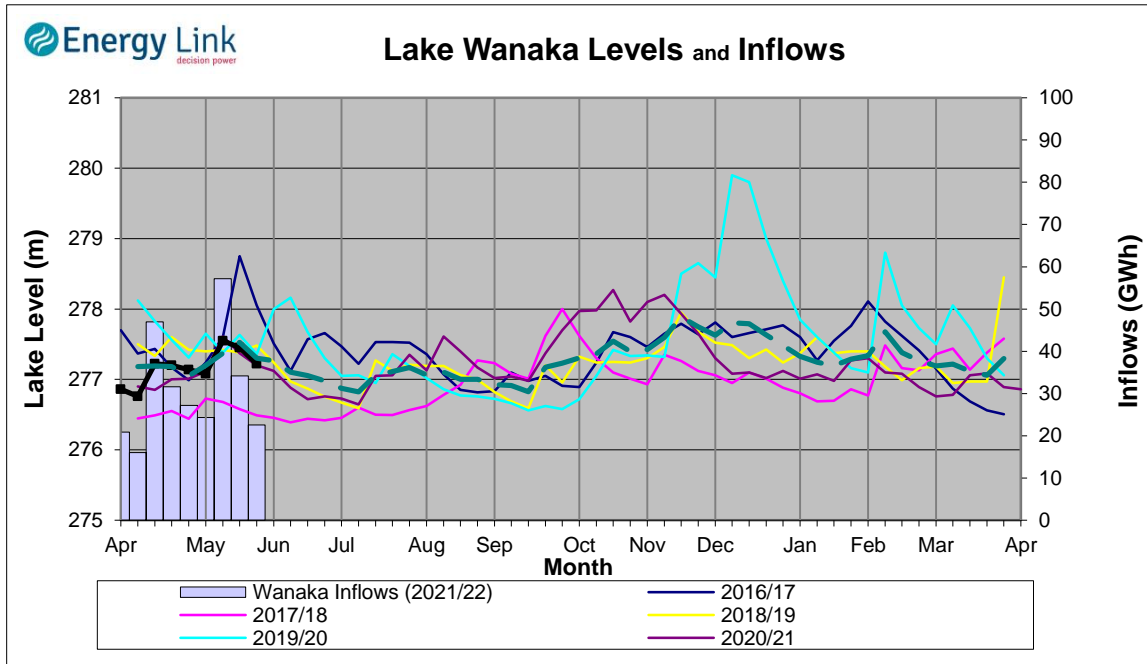
Lake Levels - Total storage for the Clutha System decreased 7.2% to 268 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 57.8%, 49.5% and 38.6% nominally full respectively.

Inflows - Total Inflows into the Clutha System 22.8% lower at 49 GWh.

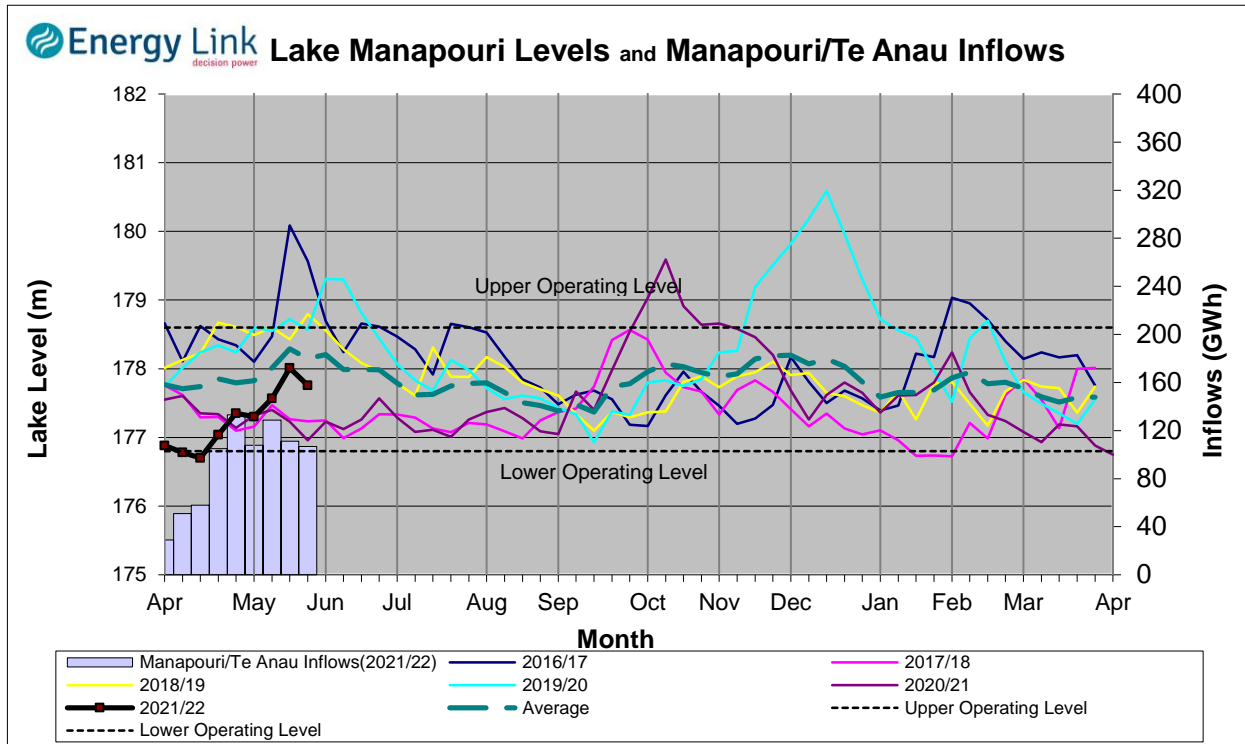
Generation - Average generation was 4.6% higher at 467 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 490.9 cumecs. This comprised of 91 cumecs from Lake Hawea, 218 cumecs from Lake Wanaka, 142 cumecs from Lake Wakatipu and 40 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 5.5% to 307 GWh with Lake Manapouri ending the week 69.1% nominally full and Lake Te Anau ending the week 70.7% nominally full.

Inflows - Total inflows into the Manapouri System decreased 3.9% to 107 GWh.

Generation - Average generation was 41% higher at 743 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 19.9 cumecs.

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

