



Thursday, 23 April 2020

Issue: 1201

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)	2483	294	2776	137	2914
Storage Change (GWh)	0	27	28	0	27

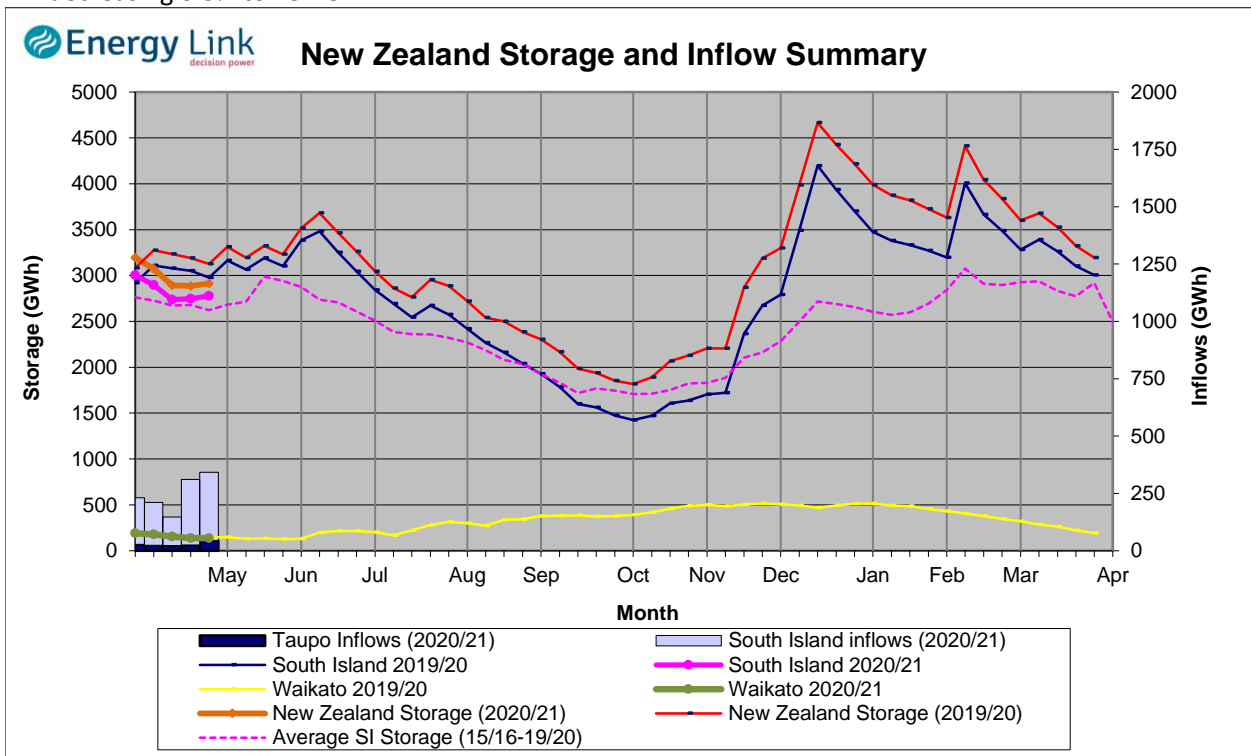
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2699	137	2836

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 27.2 GWh over the last week. South Island controlled storage increased 0% to 2483 GWh; South Island uncontrolled storage increased 10.2% to 294 GWh; with Taupo storage decreasing 0.3% to 137 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	216	312	2248	137	2914
Last Week	192	311	2246	138	2887
% Change	12.5%	0.5%	0.1%	-0.3%	0.9%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	108	53	137	44	342
Last Week	74	59	151	26	310
% Change	45.9%	-11.3%	-9.3%	70.8%	10.2%

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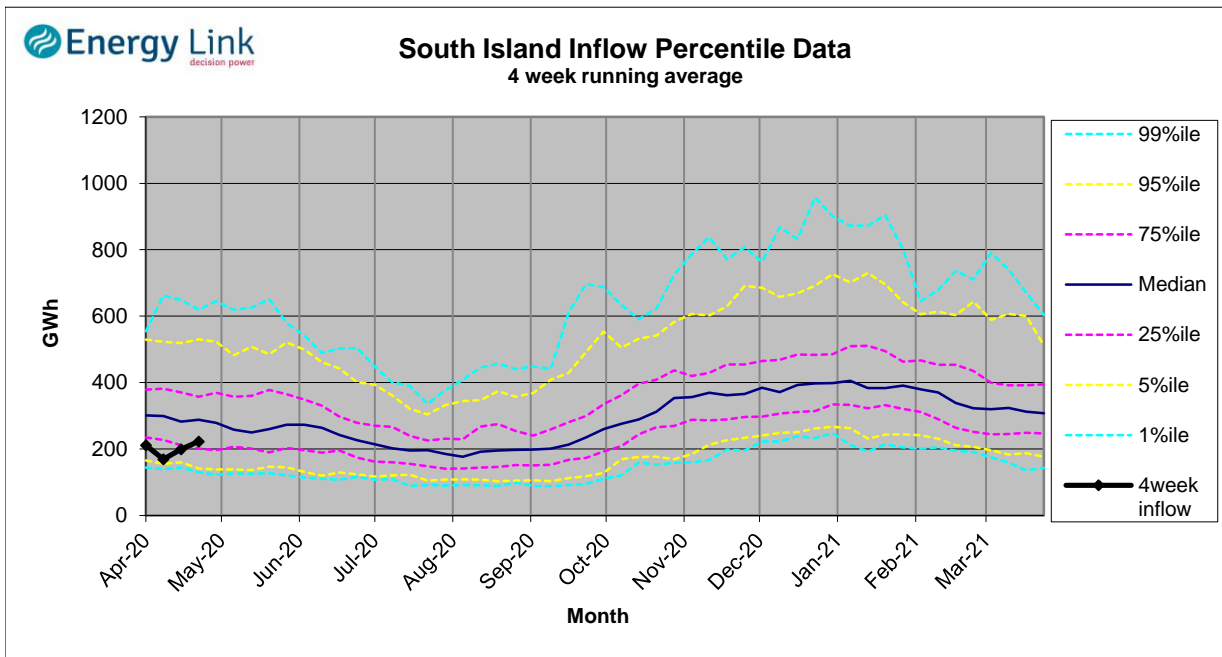
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.14	75	22	
	Te Anau	201.80	141		
Clutha	Wakatipu	309.67	31	107	13
	Wanaka	277.01	46	165	
	Hawea	344.40	235	56	
Waitaki	Tekapo	710.06	808		12
	Pukaki	529.51	1439		
Waikato	Taupo	356.19	137		-88

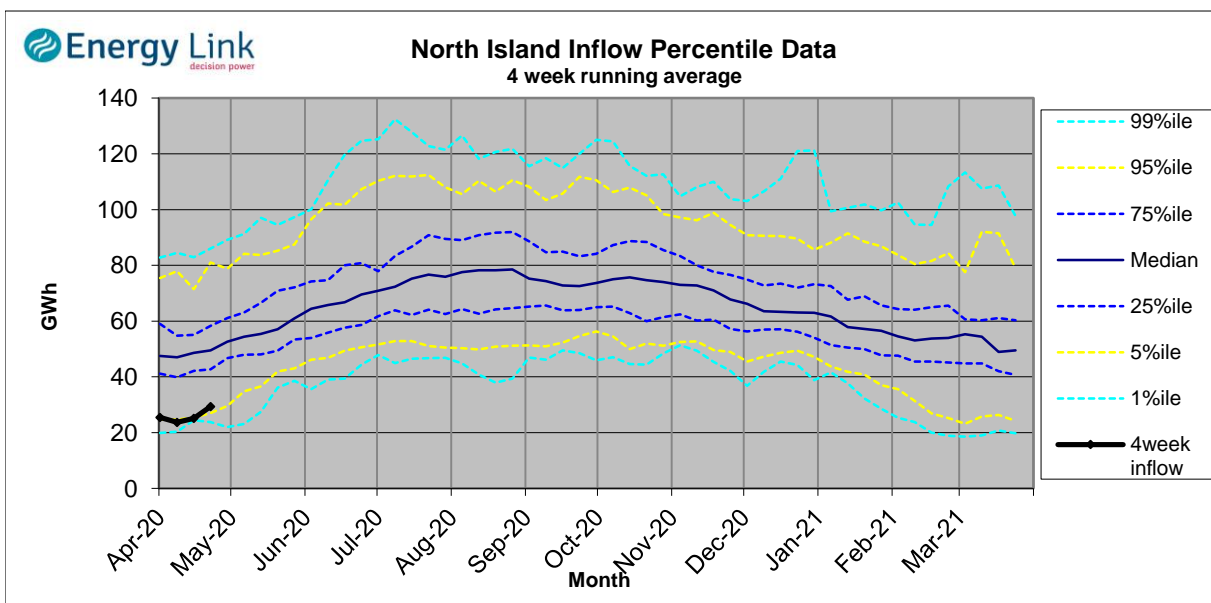
Inflow Summary

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.

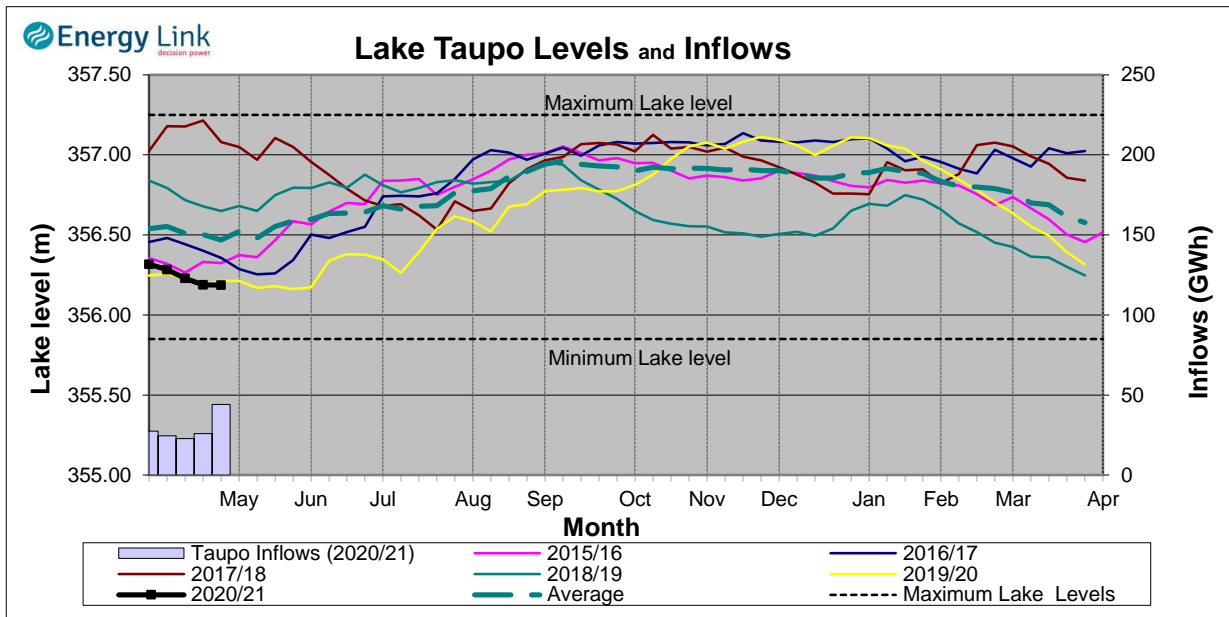
South Island Inflows - The past four weeks of S. I. inflows rank as the 28th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 7th driest on record.



Waikato System

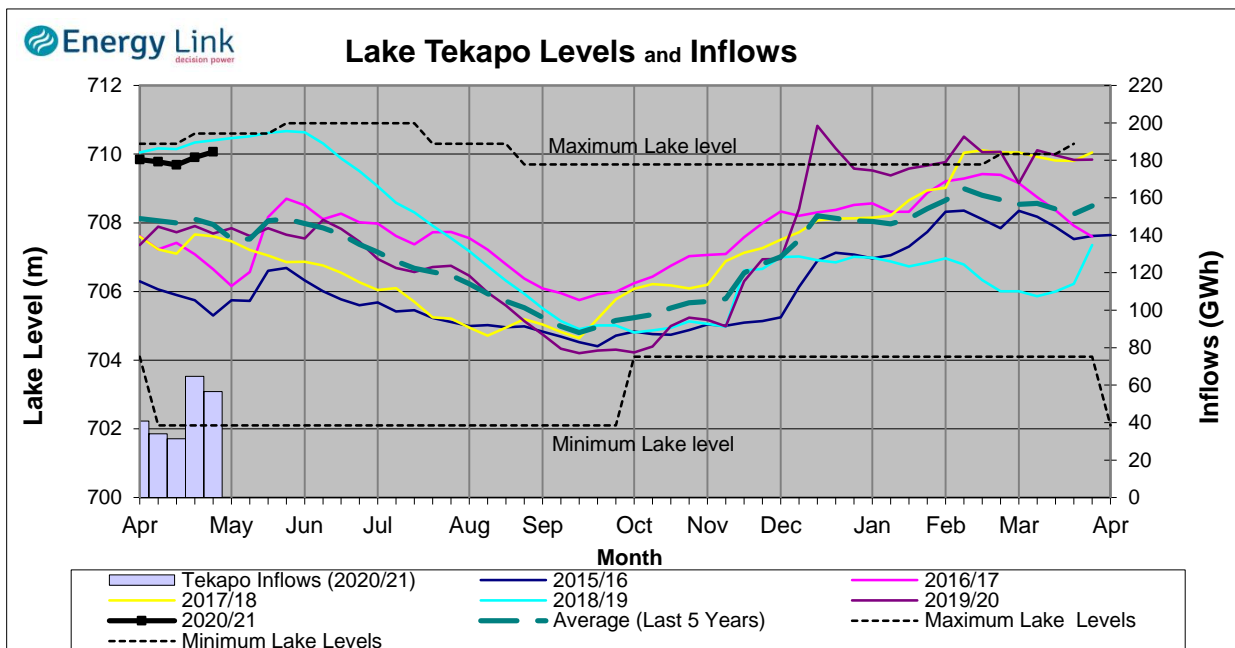


Lake Levels - Lake Taupo storage fell to 24.1% of nominal full at 137 GWh.

Inflows - Inflows increased 70.8% to 44 GWh.

Generation - Average generation remained steady at 299.4 MW.

Tekapo



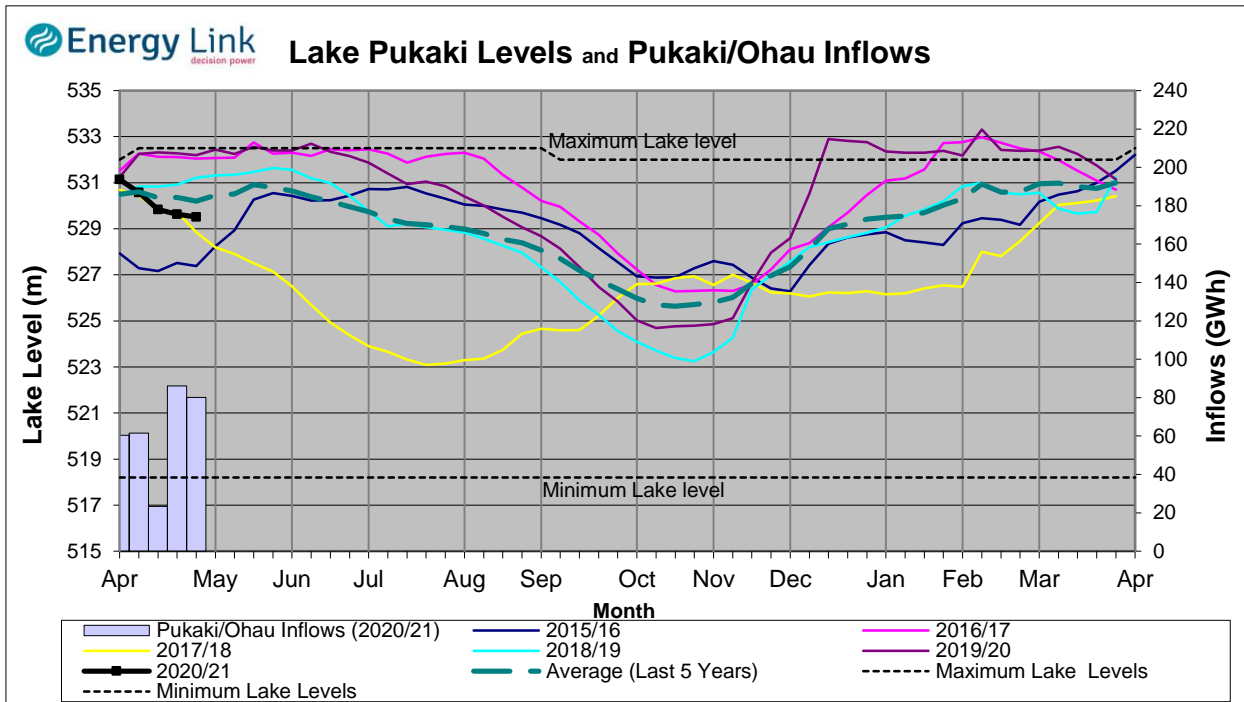
Lake Levels - Lake Tekapo ended the week 102% nominally full with storage increasing to 808 GWh.

Inflows - Inflows into tekapo decreased 12.5% to 57 GWh.

Generation - Average Tekapo generation decreased 5.7% to 69.4 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 78% nominally full with storage falling to 1439 GWh.

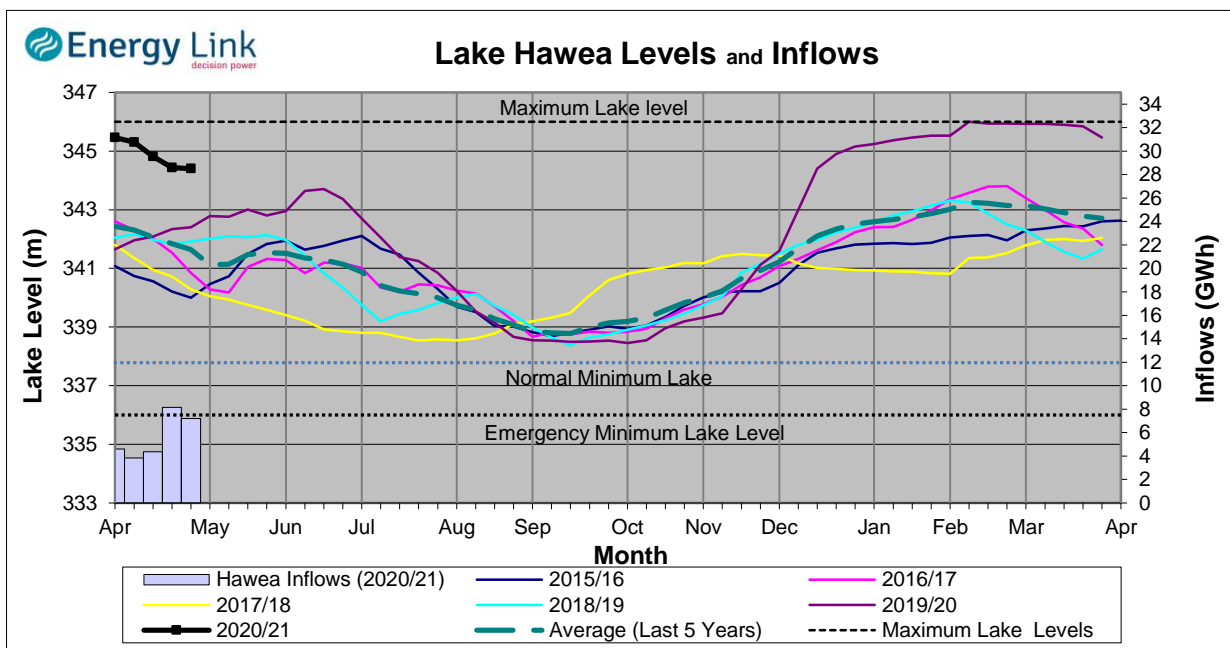
Inflows - Inflows into the Waitaki System decreased 6.9% to 80 GWh.

Generation - Average Waikati generation decreased 11.6% to 792.9 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 18.1 cumecs while Waitaki River flows were lower than last week averaging 318.1 cumecs.

Clutha System



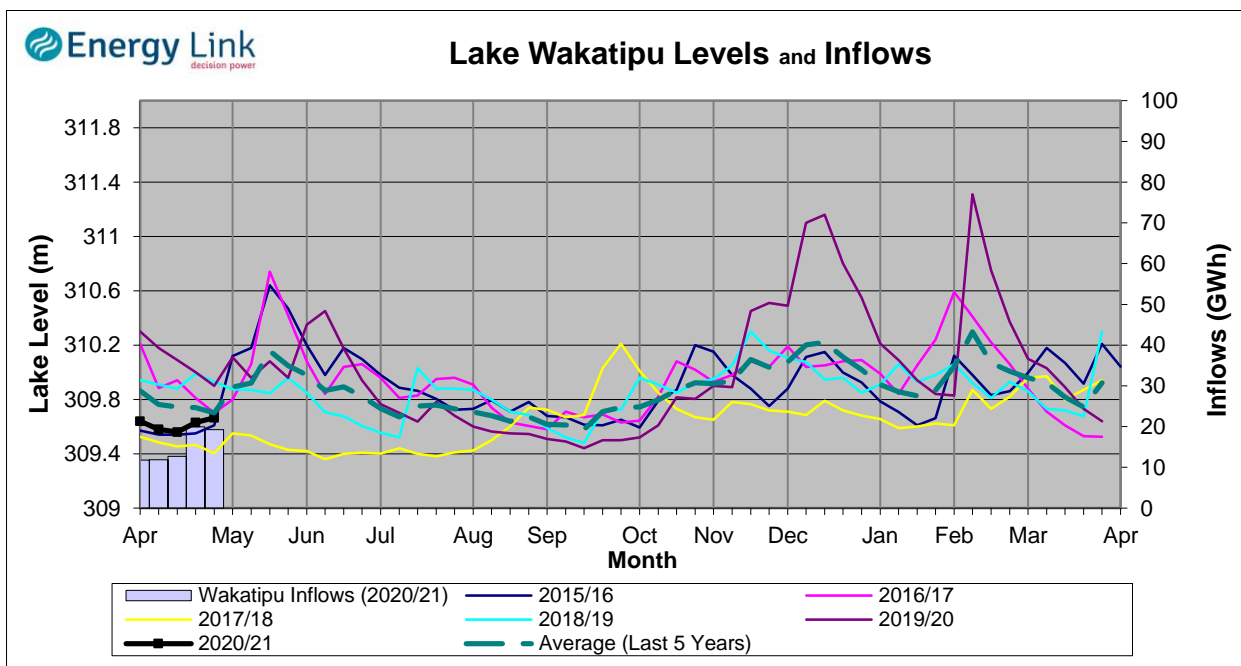
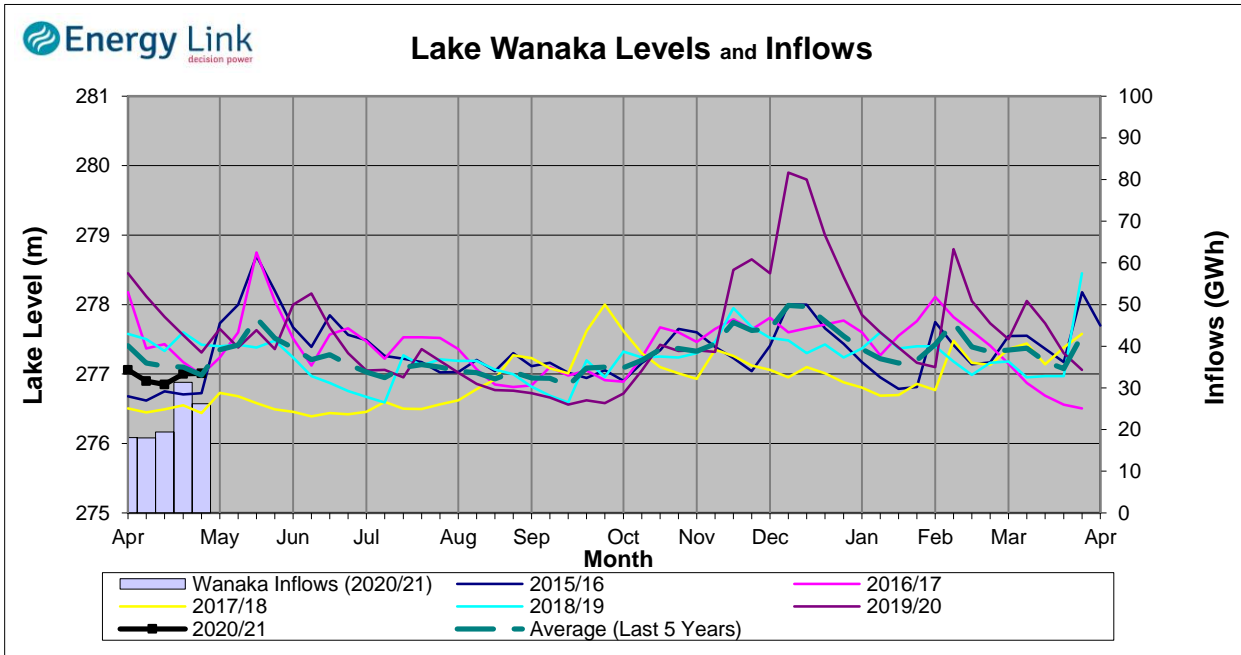
Lake Levels - Total storage for the Clutha System increased by 0.5% to 312 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 79.5%, 40.3% and 29.6% nominally full respectively.

Inflows - Total Inflows into the Clutha System 11.3% lower at 53 GWh.

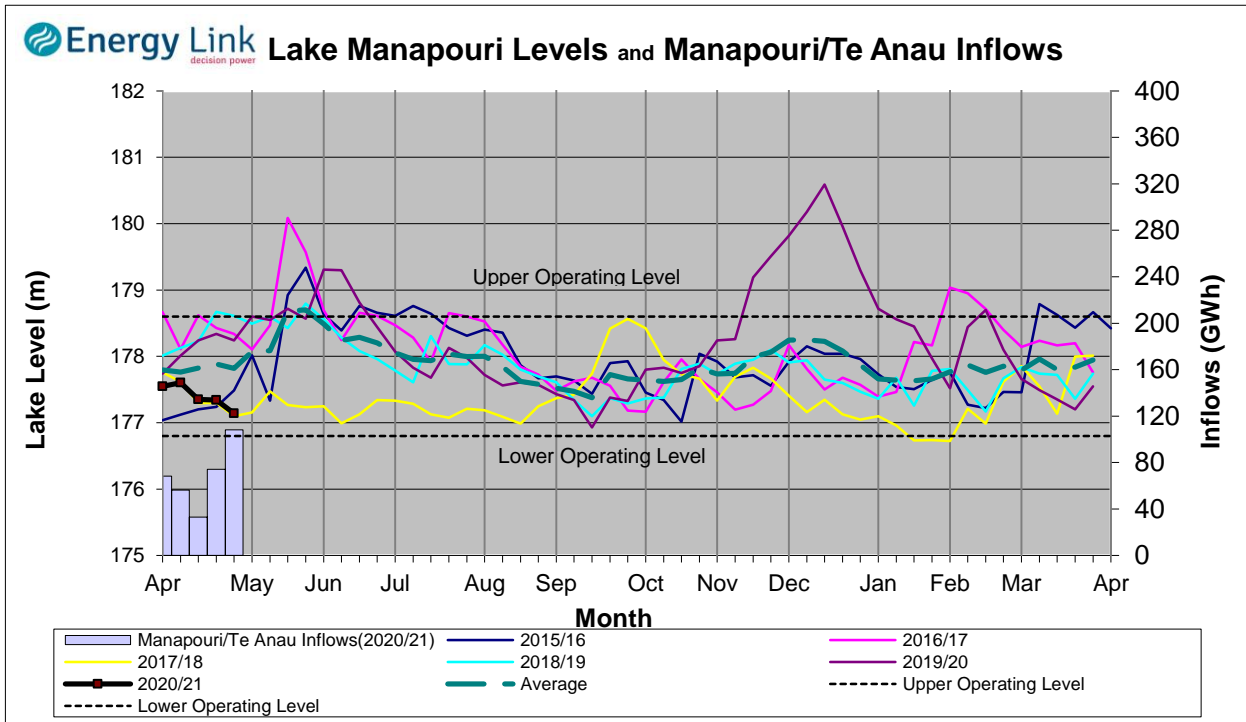
Generation - Average generation was 11% lower at 340 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 356.2 cumecs. This comprised of 56 cumecs from Lake Hawea, 165 cumecs from Lake Wanaka, 107 cumecs from Lake Wakatipu and 29 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 12.5% to 216 GWh with Lake Manapouri ending the week 46.4% nominally full and Lake Te Anau ending the week 51.1% nominally full.

Inflows - Total inflows into the Manapouri System increased 45.9% to 108 GWh.

Generation - Average generation was 44.3% higher at 501 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 22.4 cumecs.

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

