



Thursday, 02 July 2020

Issue: 1211

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)	1533	257	1790	188	1979
Storage Change (GWh)	-115	-51	-166	31	-135

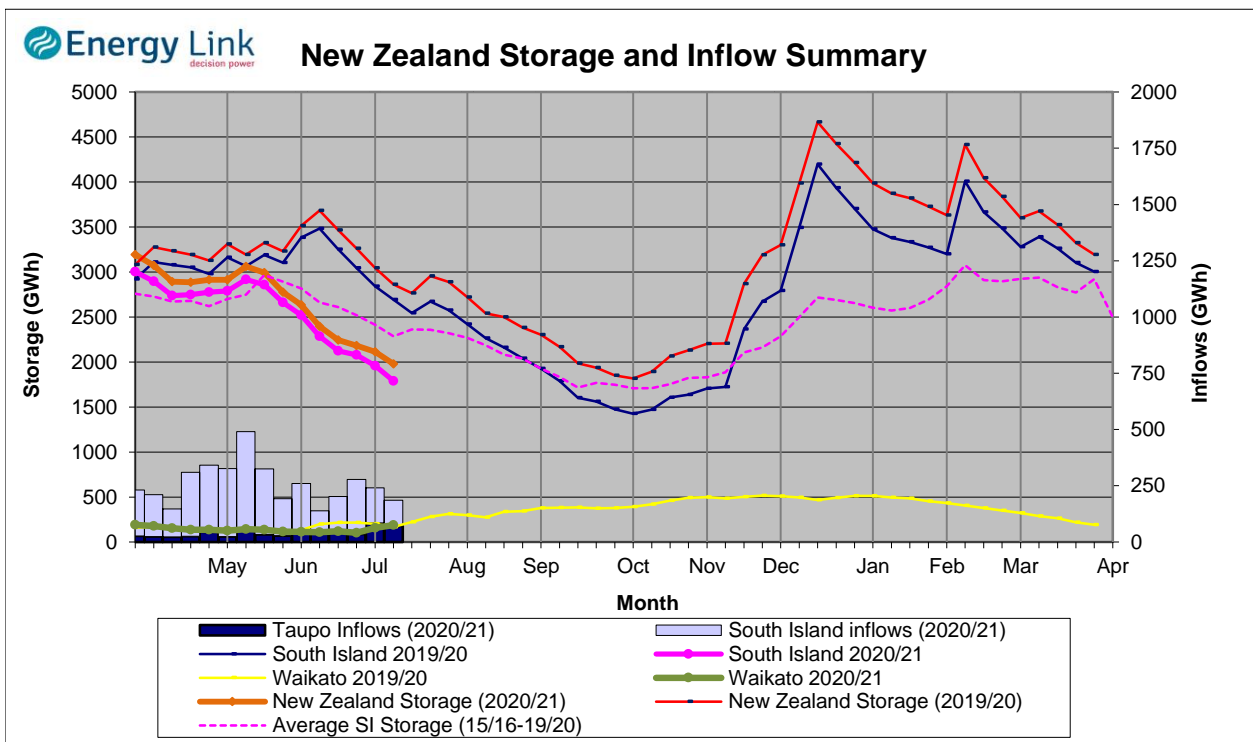
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1740	188	1928

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 134.8 GWh over the last week. South Island controlled storage decreased 7% to 1533 GWh; South Island uncontrolled storage decreased 16.6% to 257 GWh; with Taupo storage increasing 20% to 188 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	206	142	1442	188	1979
Last Week	249	173	1534	157	2113
% Change	-17.0%	-18.0%	-6.0%	20.0%	-6.4%
Inflow (GWh)					
This Week	32	29	54	71	185
Last Week	62	40	55	84	241
% Change	-48.7%	-27.3%	-1.0%	-16.4%	-23.0%

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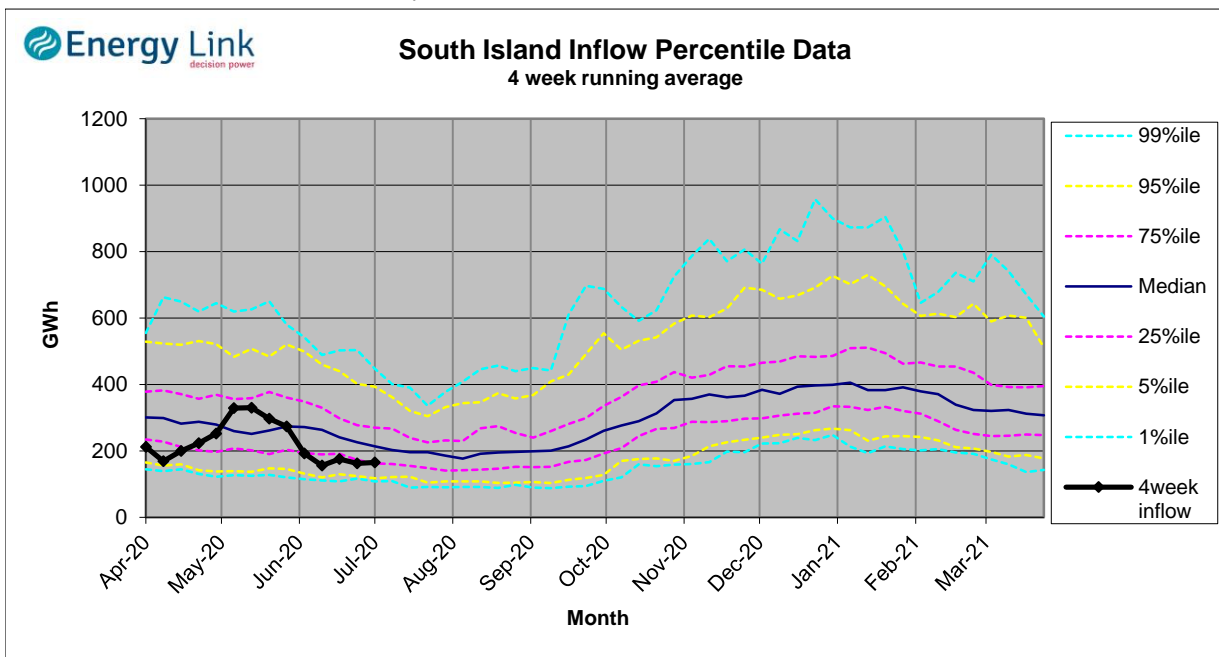
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.08	72	24	-20
	Te Anau	201.76	135		
Clutha	Wakatipu	309.55	23	90	-15
	Wanaka	276.65	28	124	
	Hawea	340.55	92	173	
Waitaki	Tekapo	708.96	687		
	Pukaki	524.29	754		
Waikato	Taupo	356.31	188		87

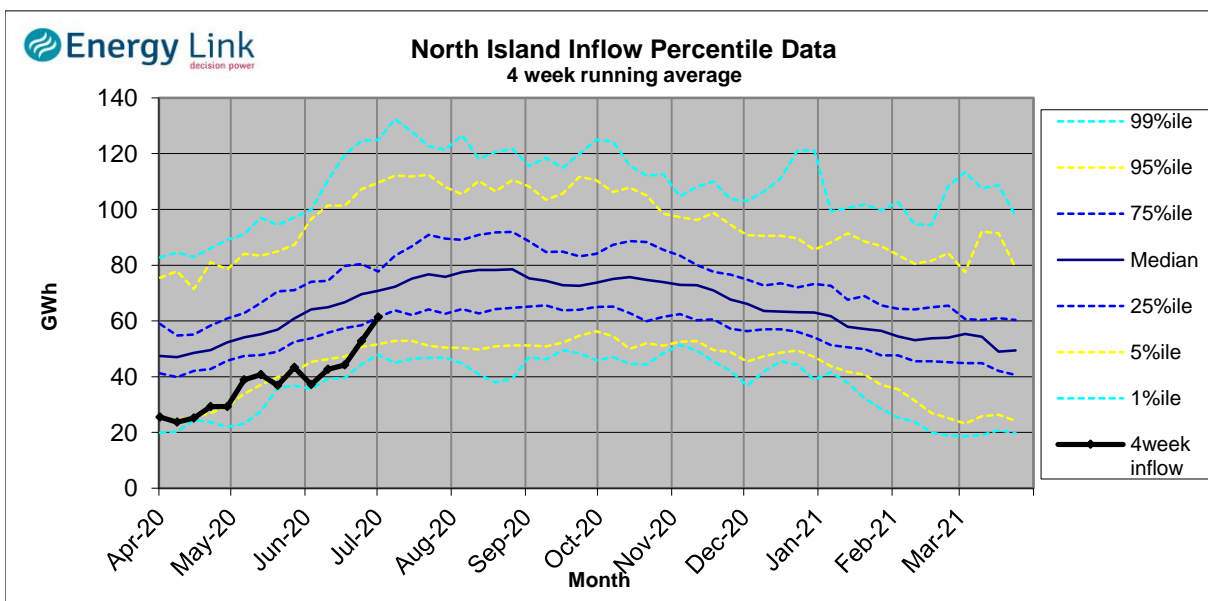
Inflow Summary

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.

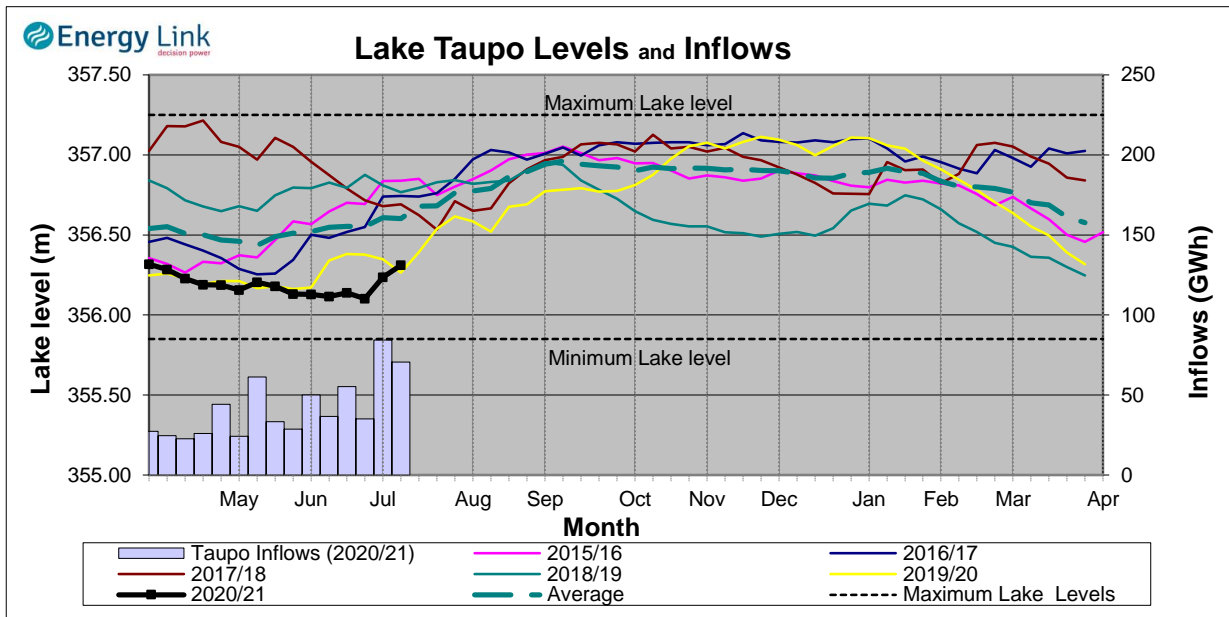
South Island Inflows - The past four weeks of S. I. inflows rank as the 27th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 23rd driest on record.



Waikato System

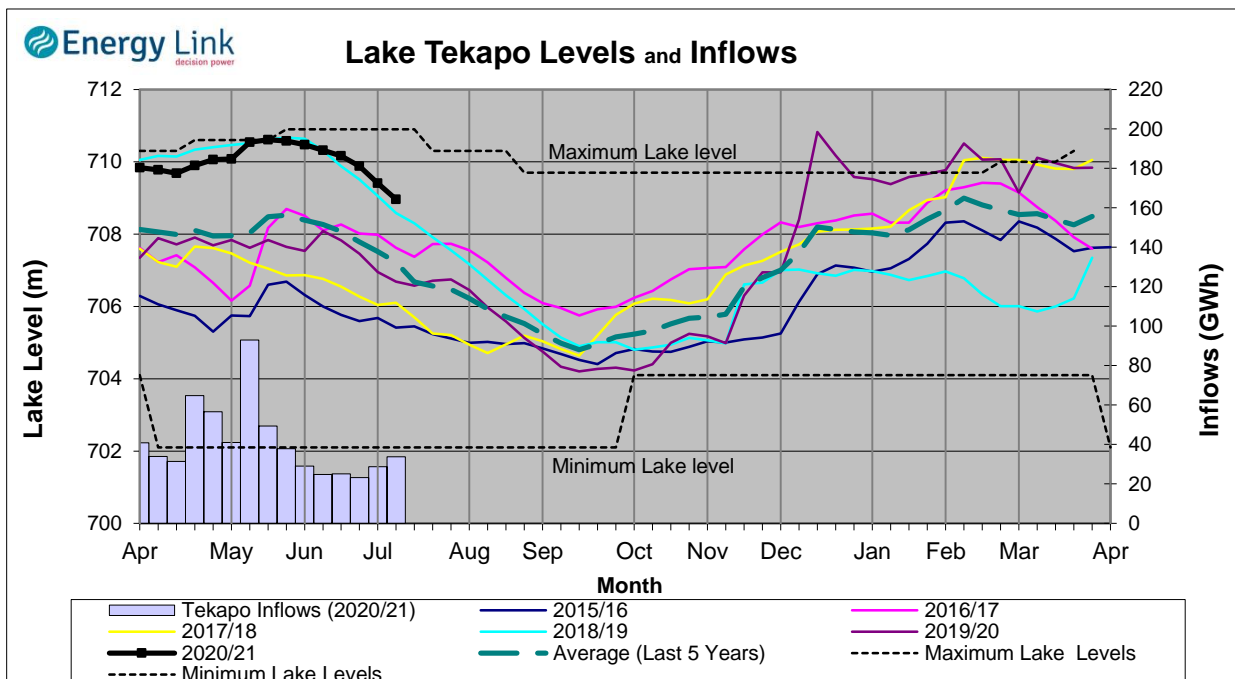


Lake Levels - Lake Taupo storage increased to 33% of nominal full at 188 GWh.

Inflows - Inflows decreased 16.4% to 71 GWh.

Generation - Average generation increased 10.4% to 322.4 MW.

Tekapo



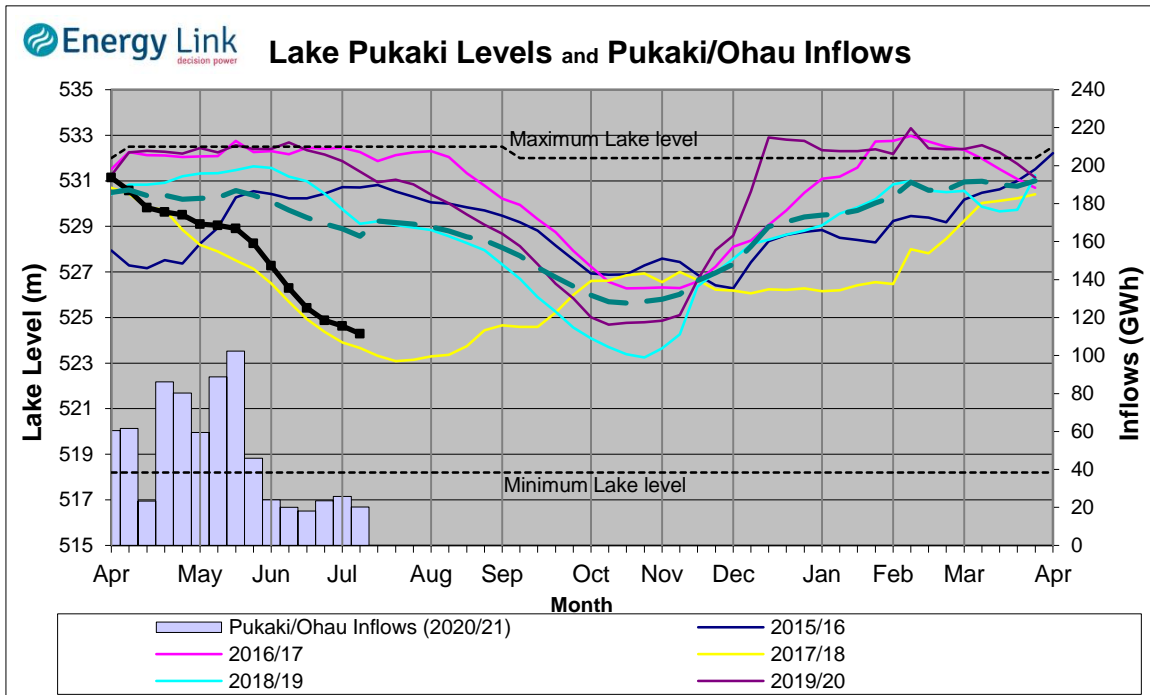
Lake Levels - Lake Tekapo ended the week 81% nominally full with storage falling to 687 GWh.

Inflows - Inflows into tekapo increased 17.4% to 34 GWh.

Generation - Average Tekapo generation increased 11.4% to 175.8 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 41% nominally full with storage falling to 754 GWh.

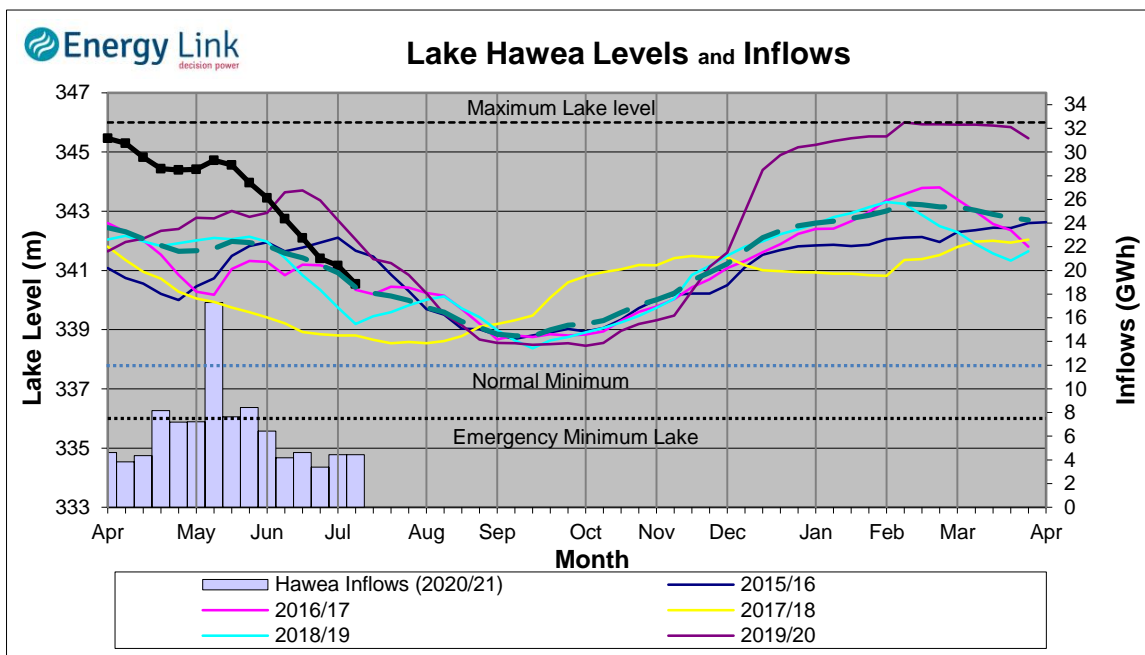
Inflows - Inflows into the Waitaki System decreased 21.5% to 20 GWh.

Generation - Average Waikati generation increased 6.1% to 779.1 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 15 cumecs while Waitaki River flows were higher than last week averaging 315.7 cumecs.

Clutha System



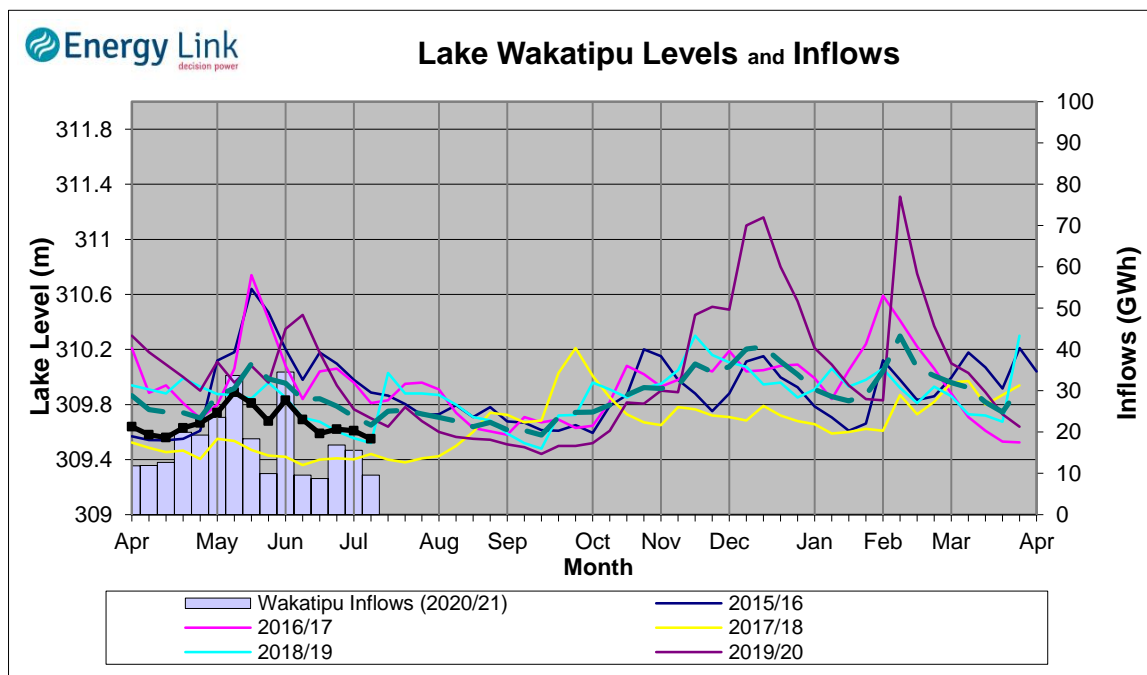
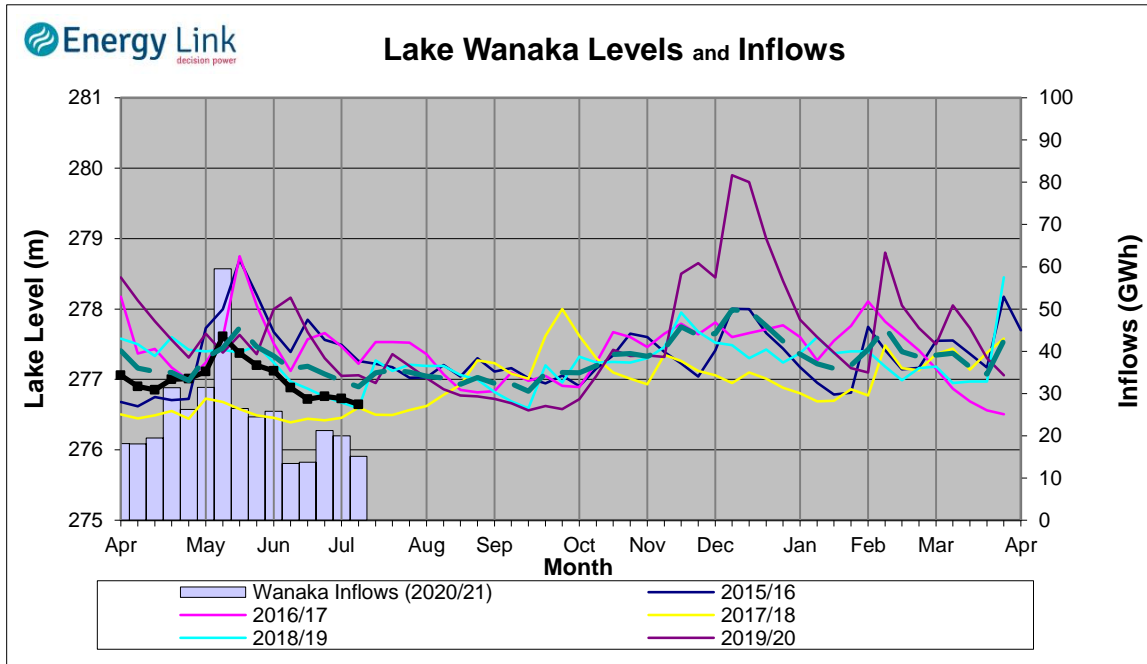
Lake Levels - Total storage for the Clutha System decreased 18% to 142 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 31%, 24.5% and 21.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 27.3% lower at 29 GWh.

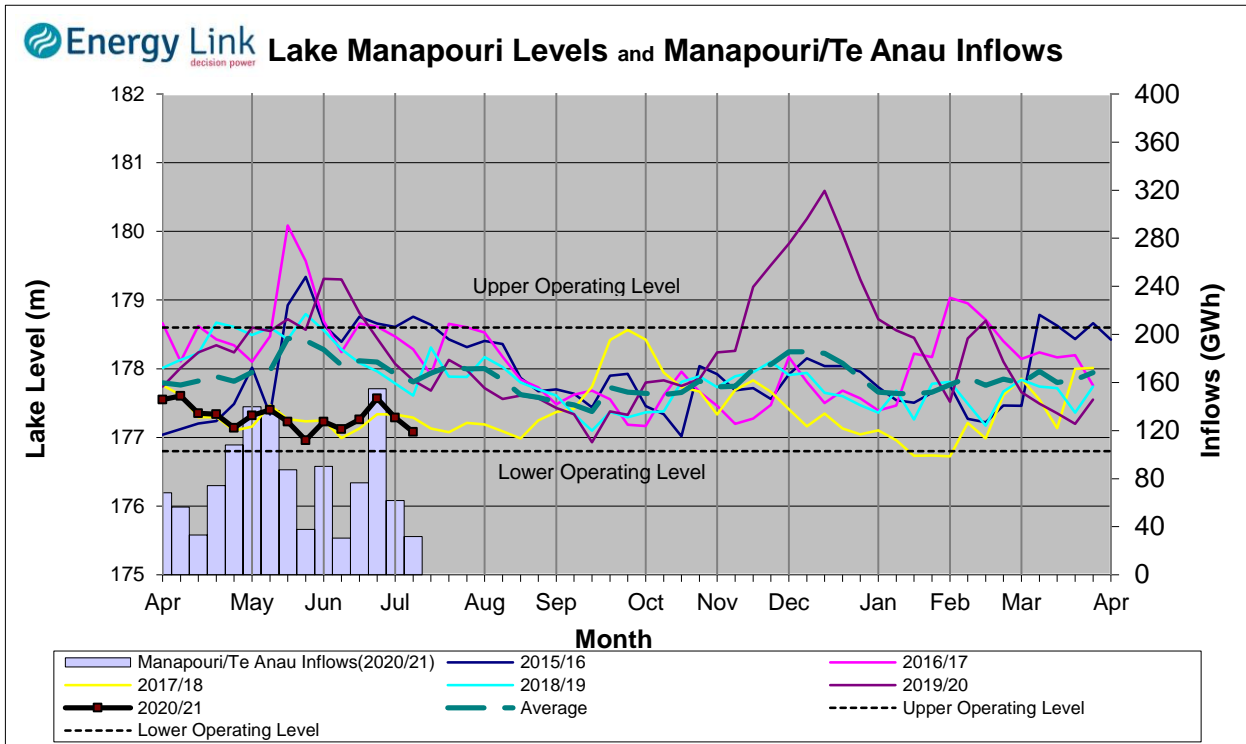
Generation - Average generation was 15.2% higher at 400 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 414.9 cumecs. This comprised of 173 cumecs from Lake Hawea, 124 cumecs from Lake Wanaka, 90 cumecs from Lake Wakatipu and 28 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 17% to 206 GWh with Lake Manapouri ending the week 44.2% nominally full and Lake Te Anau ending the week 48.9% nominally full.

Inflows - Total inflows into the Manapouri System decreased 48.7% to 32 GWh.

Generation - Average generation was 18% lower at 441 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 23.9 cumecs.

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

