



Thursday, 09 July 2020

Issue: 1212

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)	1439	337	1776	191	1967
Storage Change (GWh)	-94	80	-14	2	-12

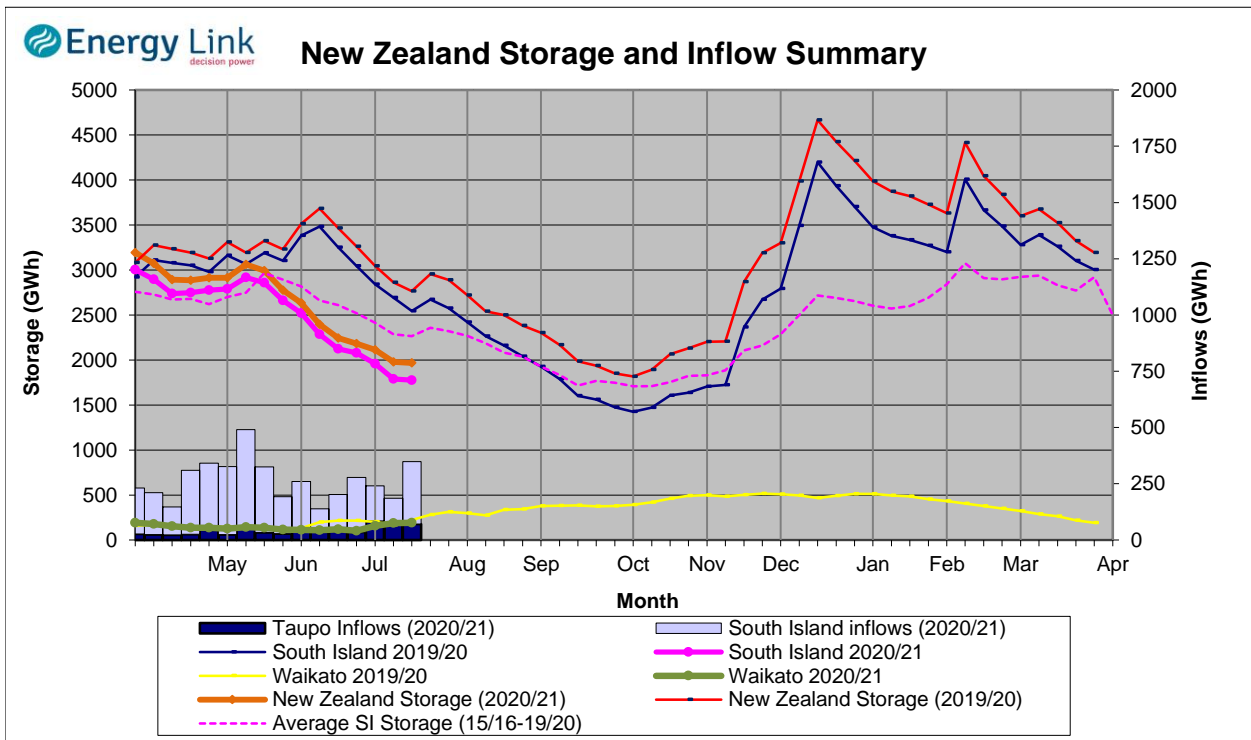
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1694	191	1885

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 11.6 GWh over the last week. South Island controlled storage decreased 6.1% to 1439 GWh; South Island uncontrolled storage increased 31% to 337 GWh; with Taupo storage increasing 1.3% to 191 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	255	169	1353	191	1967
Last Week	206	142	1442	188	1979
% Change	23.3%	18.5%	-6.1%	1.3%	-0.6%
Inflow (GWh)					
This Week	121	82	74	72	349
Last Week	32	29	54	71	185
% Change	279.8%	183.7%	37.0%	1.4%	88.0%

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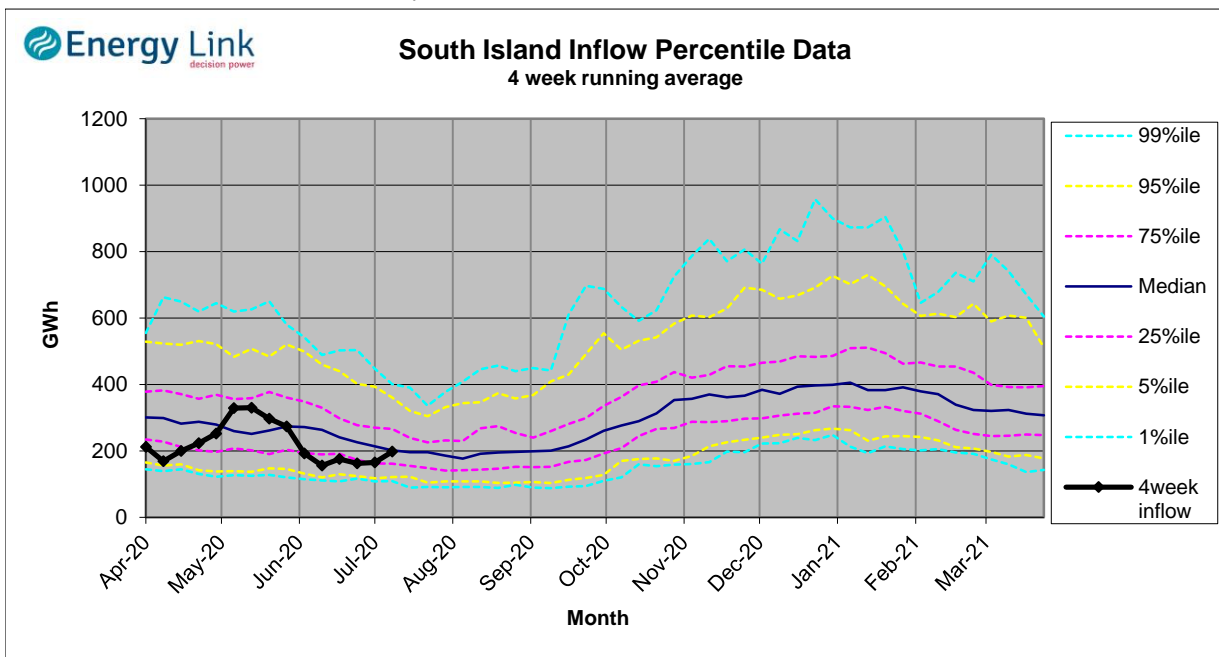
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.11	74	78	54
	Te Anau	202.07	181		
Clutha	Wakatipu	309.70	34	94	4
	Wanaka	277.05	48	147	
	Hawea	340.41	86	119	
Waitaki	Tekapo	708.53	641		23
	Pukaki	523.96	712		
Waikato	Taupo	356.32	191		-54

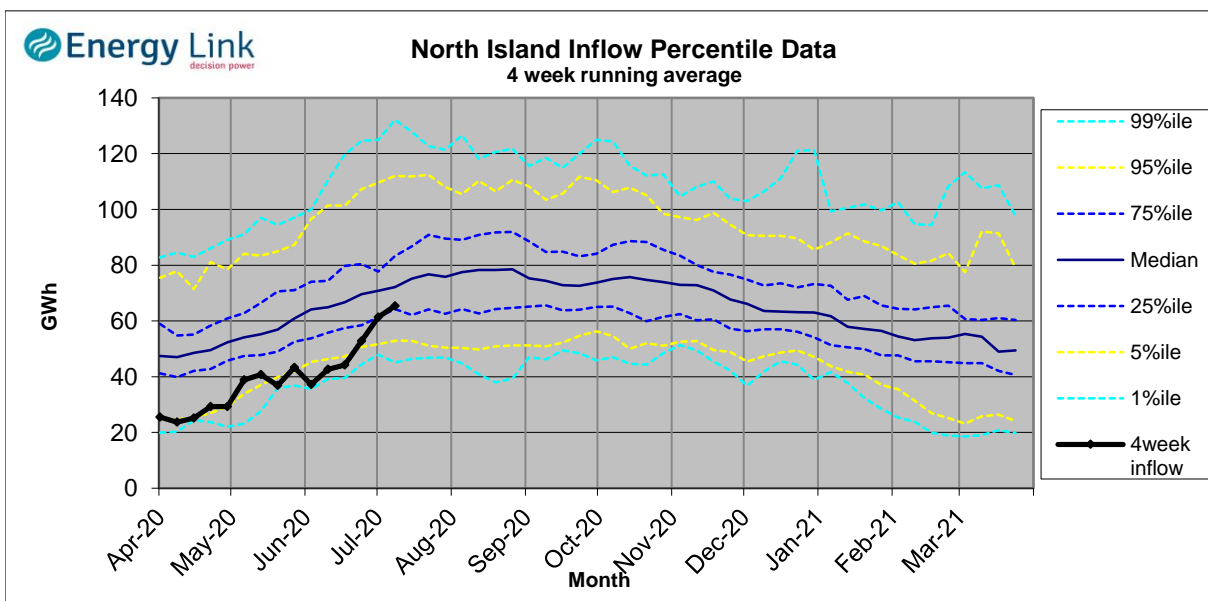
Inflow Summary

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.

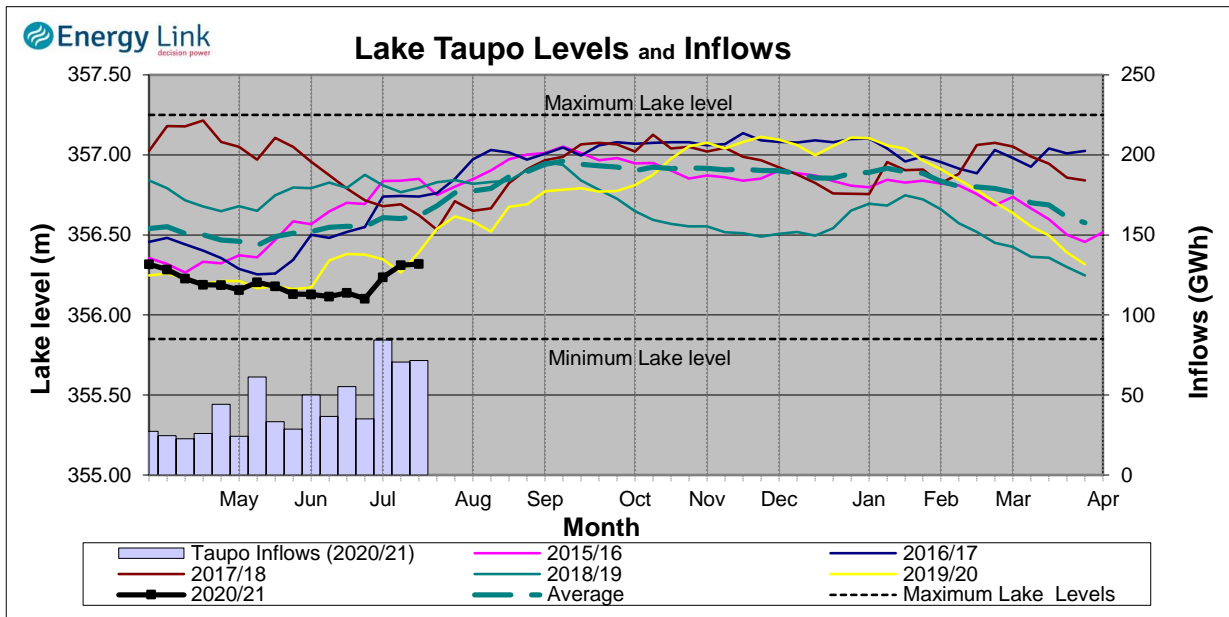
South Island Inflows - The past four weeks of S. I. inflows rank as the 42nd driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 26th driest on record.



Waikato System

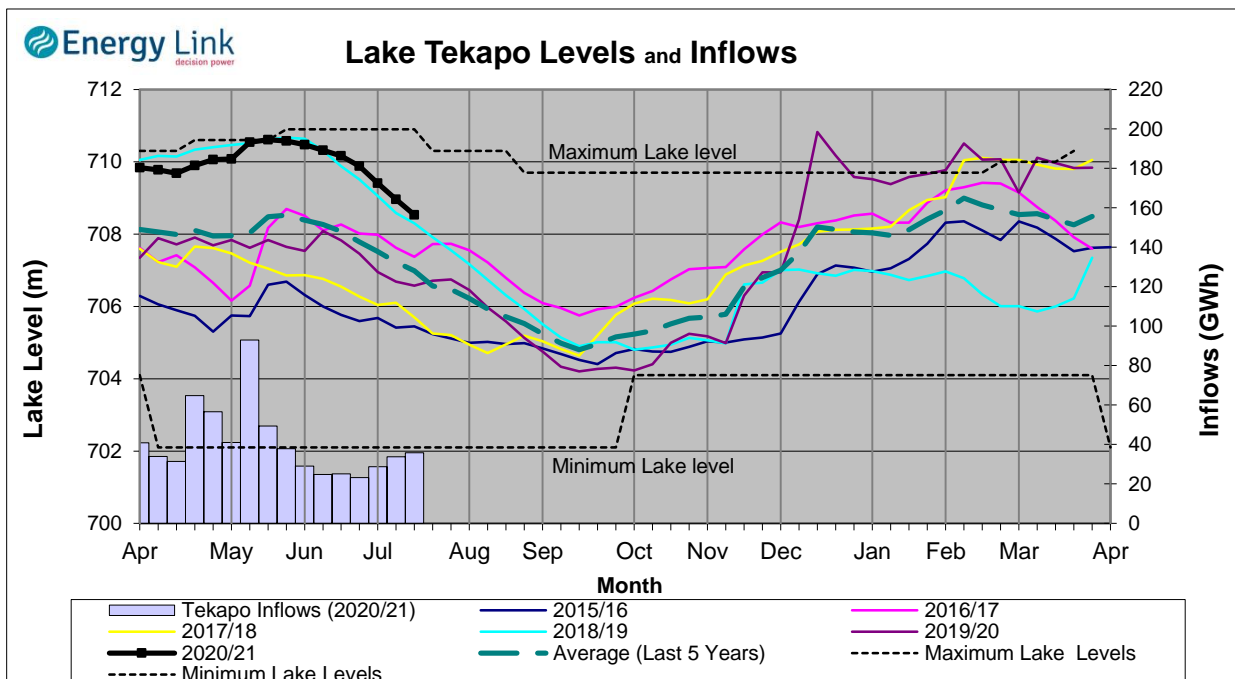


Lake Levels - Lake Taupo storage increased to 33.4% of nominal full at 191 GWh.

Inflows - Inflows increased 1.4% to 72 GWh.

Generation - Average generation increased 46.7% to 472.9 MW.

Tekapo



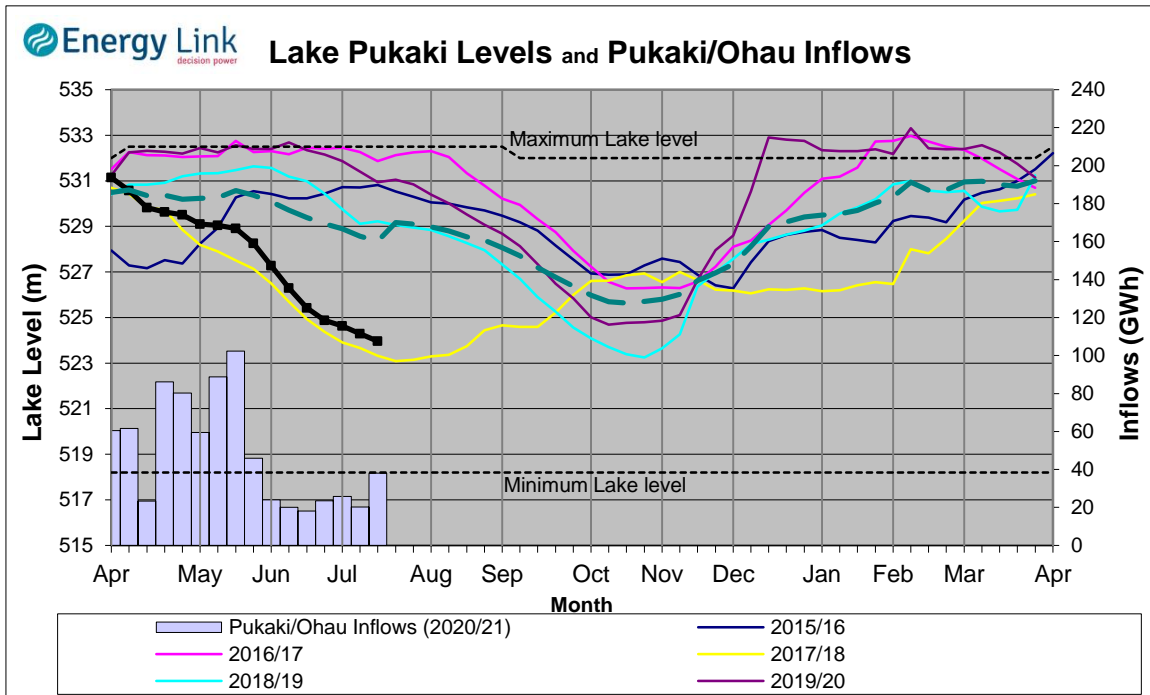
Lake Levels - Lake Tekapo ended the week 75% nominally full with storage falling to 641 GWh.

Inflows - Inflows into tekapo increased 6.2% to 36 GWh.

Generation - Average Tekapo generation decreased 1.5% to 173.2 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 39% nominally full with storage falling to 712 GWh.

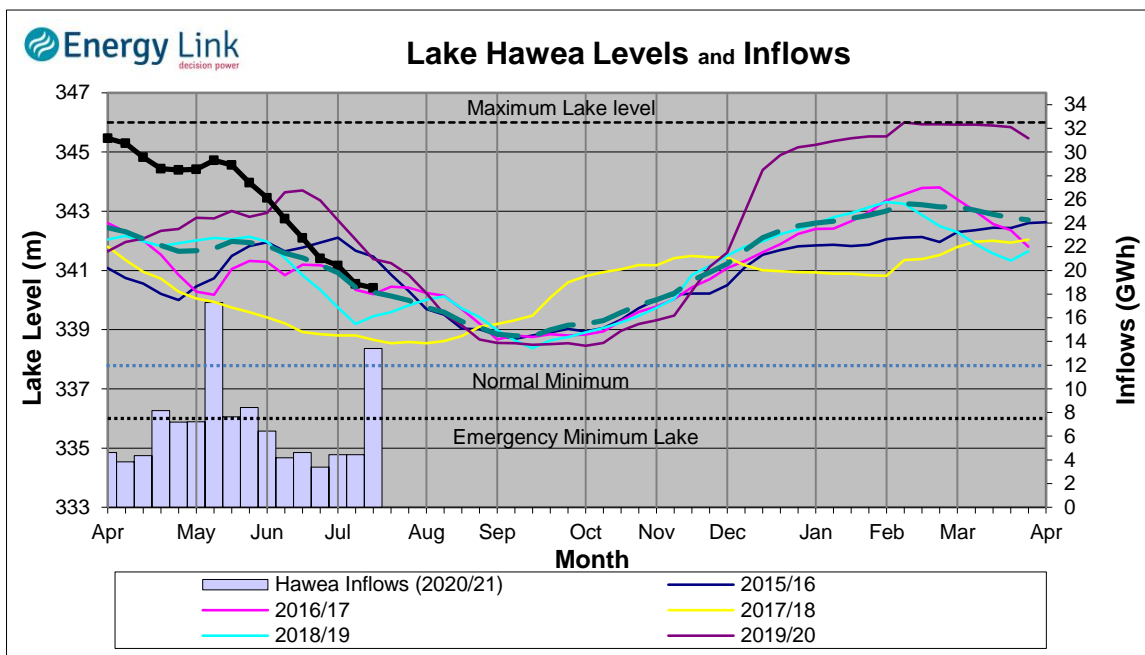
Inflows - Inflows into the Waitaki System increased 88.5% to 38 GWh.

Generation - Average Waikati generation increased 12.9% to 879.9 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 24.7 cumecs while Waitaki River flows were higher than last week averaging 371 cumecs.

Clutha System



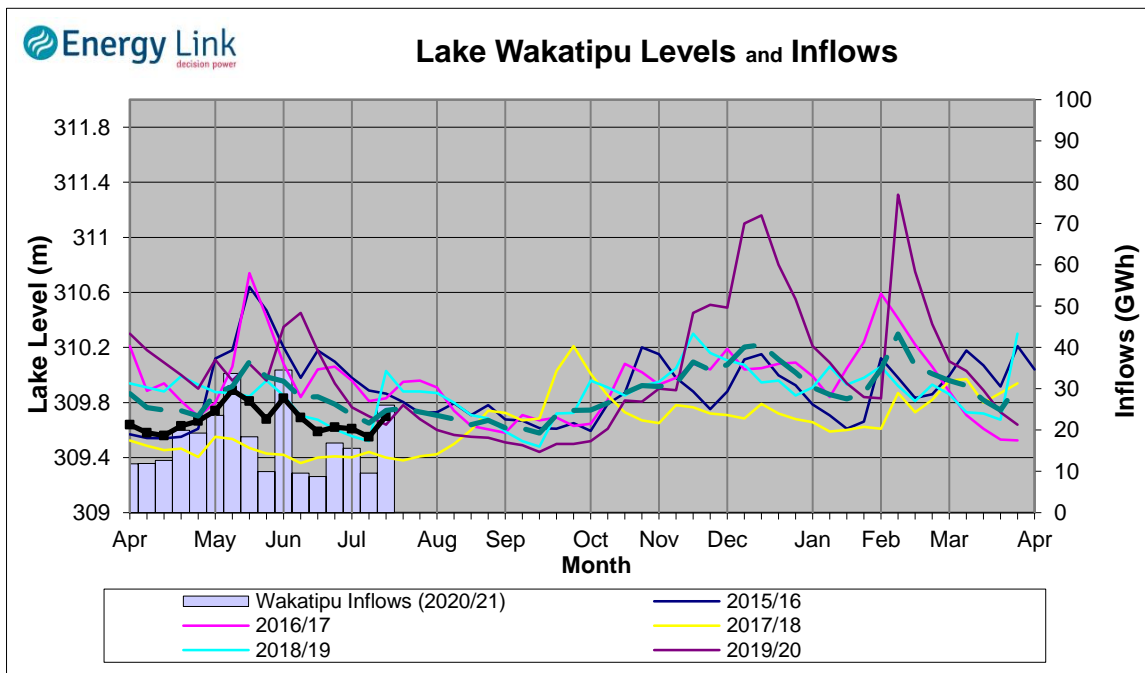
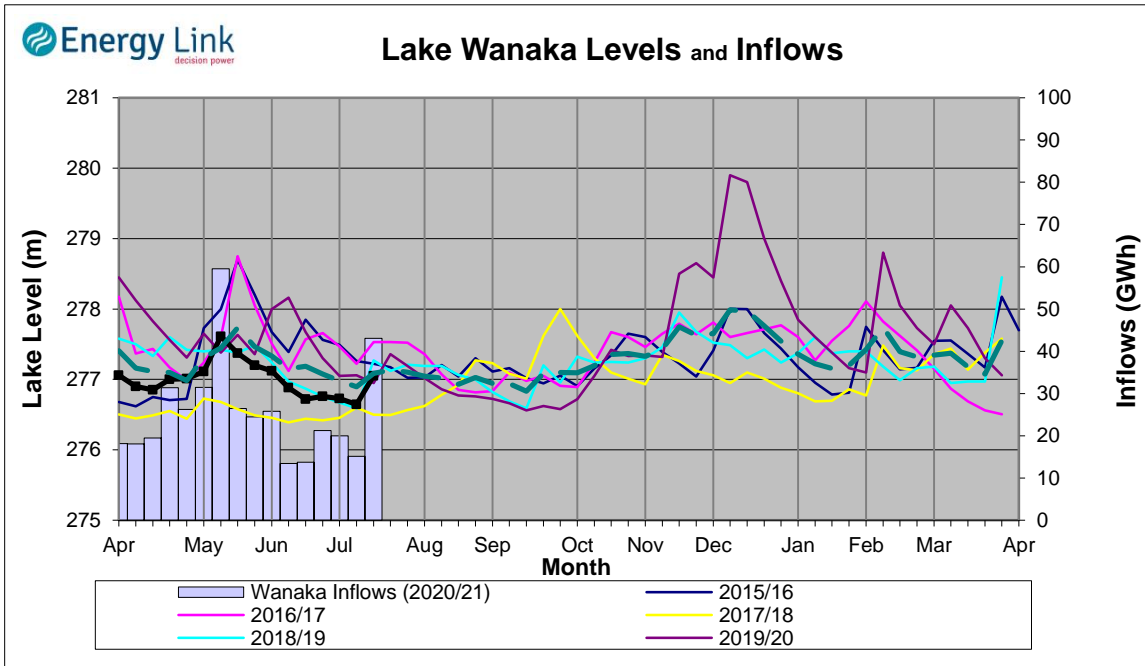
Lake Levels - Total storage for the Clutha System increased by 18.5% to 169 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 29.2%, 42.1% and 32.1% nominally full respectively.

Inflows - Total Inflows into the Clutha System 183.7% higher at 82 GWh.

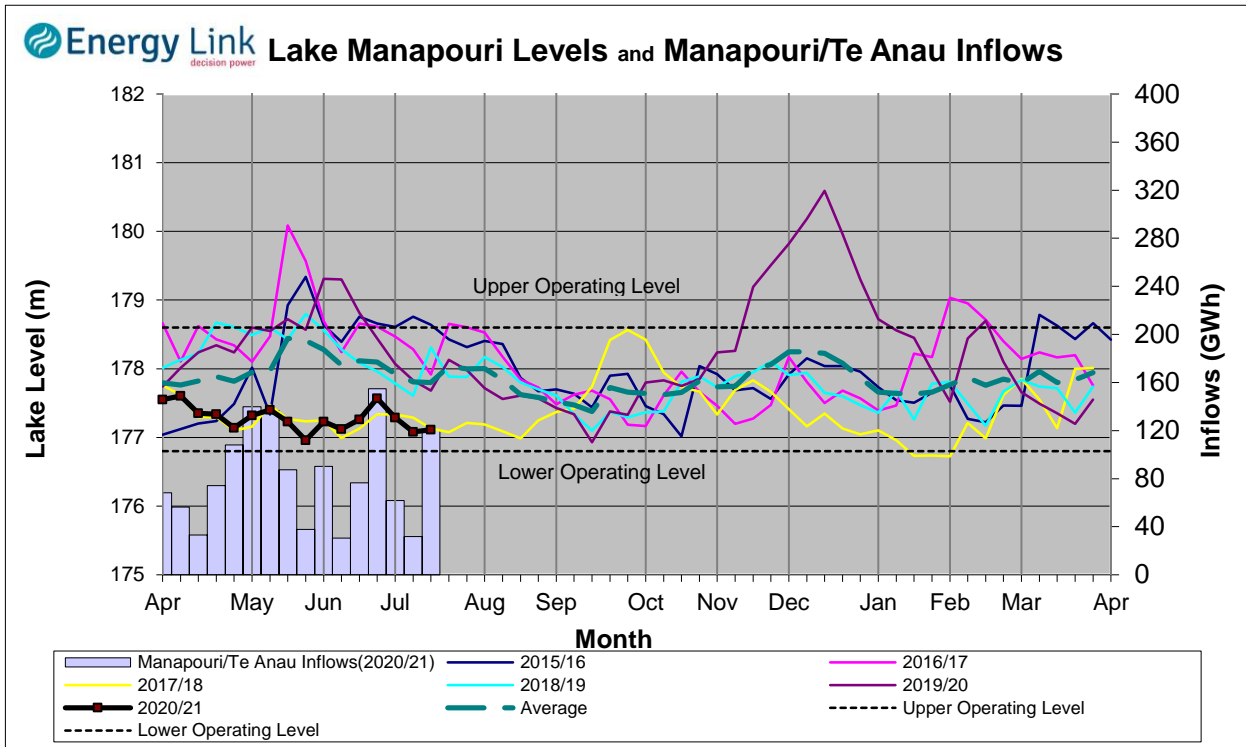
Generation - Average generation was 2.1% higher at 409 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 413.2 cumecs. This comprised of 119 cumecs from Lake Hawea, 147 cumecs from Lake Wanaka, 94 cumecs from Lake Wakatipu and 53 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 23.3% to 255 GWh with Lake Manapouri ending the week 45.3% nominally full and Lake Te Anau ending the week 65.8% nominally full.

Inflows - Total inflows into the Manapouri System increased 279.8% to 121 GWh.

Generation - Average generation was 2.3% lower at 431 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 77.5 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'.

