



Thursday, 16 July 2020

Issue: 1213

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)	1342	338	1680	200	1880
Storage Change (GWh)	-98	1	-96	9	-87

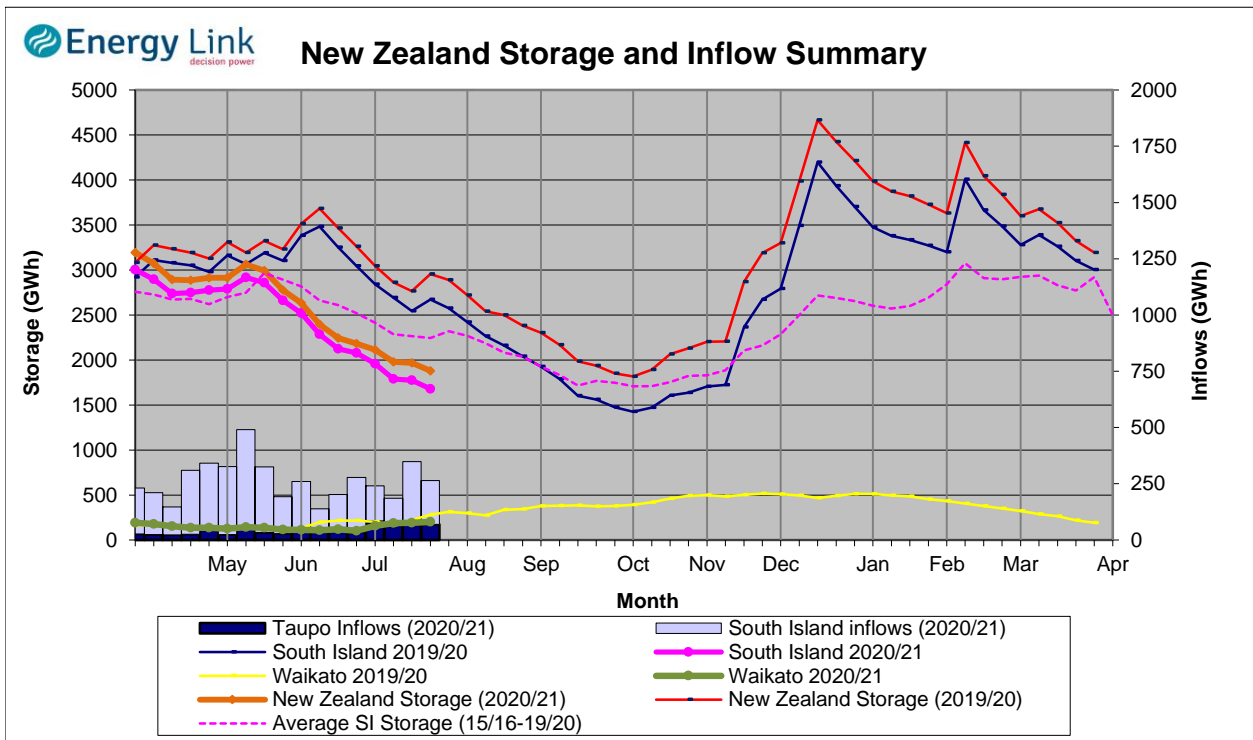
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1593	200	1794

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 87 GWh over the last week. South Island controlled storage decreased 6.8% to 1342 GWh; South Island uncontrolled storage increased 0.4% to 338 GWh; with Taupo storage increasing 4.9% to 200 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	252	171	1257	200	1880
Last Week	255	169	1353	191	1967
% Change	-1.2%	1.2%	-7.1%	4.9%	-4.4%
Inflow (GWh)					
This Week	78	58	59	69	265
Last Week	121	82	74	72	349
% Change	-35.4%	-29.1%	-20.0%	-3.2%	-24.0%

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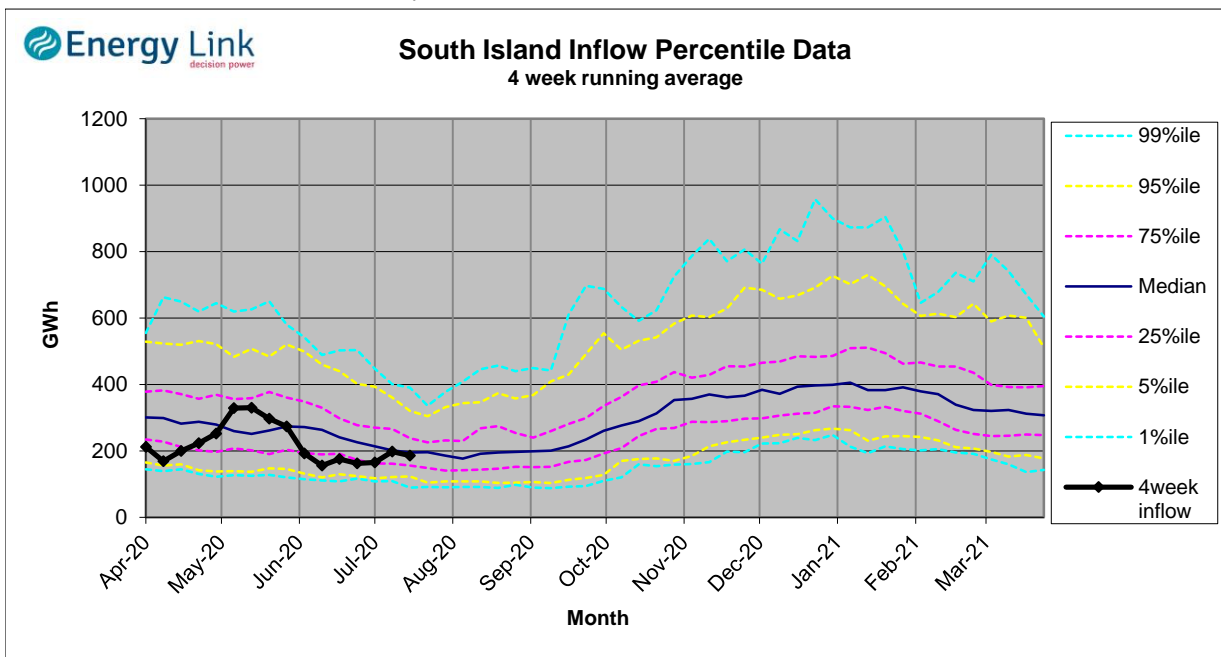
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.01	68	65	-13
	Te Anau	202.09	184		
Clutha	Wakatipu	309.75	38	118	23
	Wanaka	277.06	49	178	
	Hawea	340.35	84	66	
Waitaki	Tekapo	708.04	589		31
	Pukaki	523.62	669		
Waikato	Taupo	356.34	200		-53

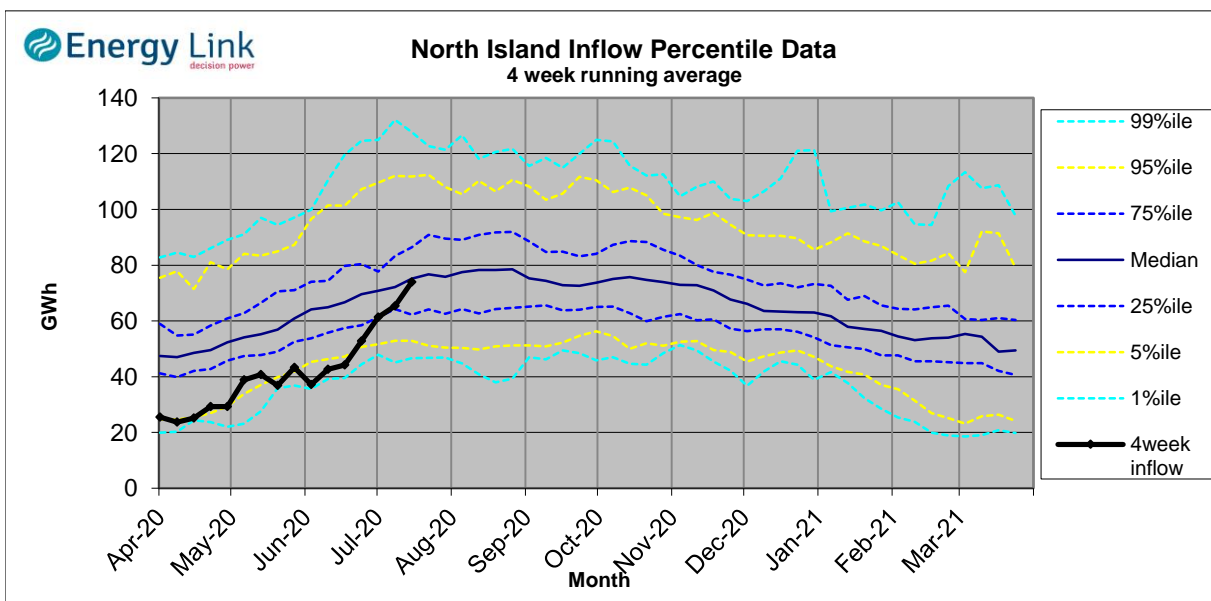
Inflow Summary

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.

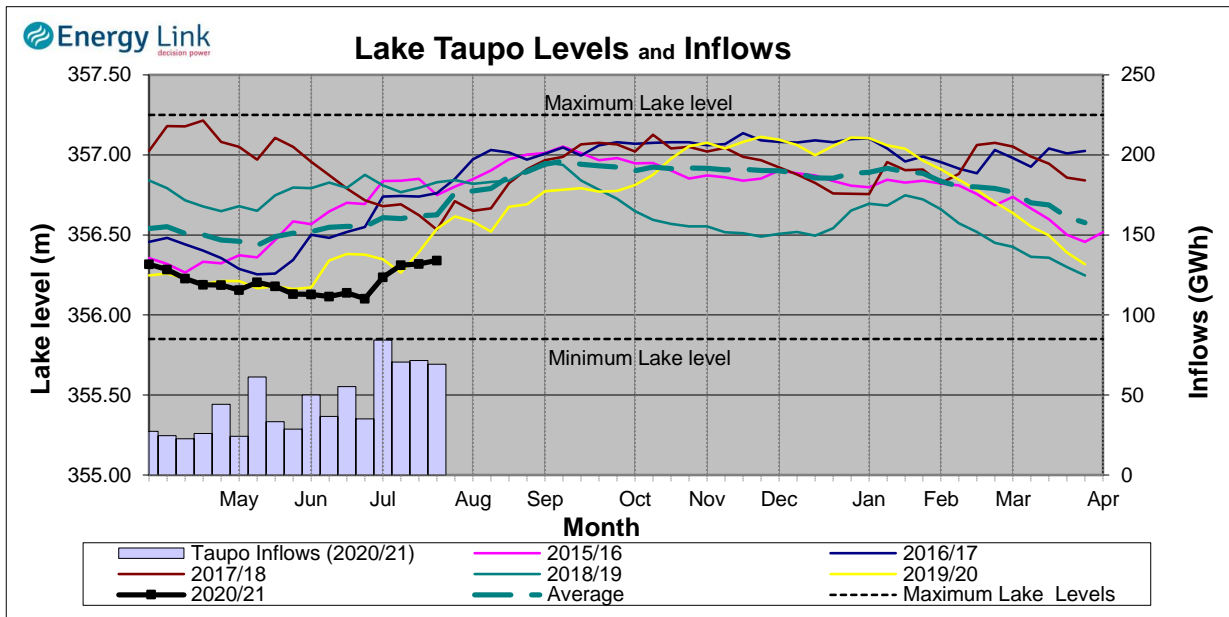
South Island Inflows - The past four weeks of S. I. inflows rank as the 43rd driest on record.



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



Waikato System

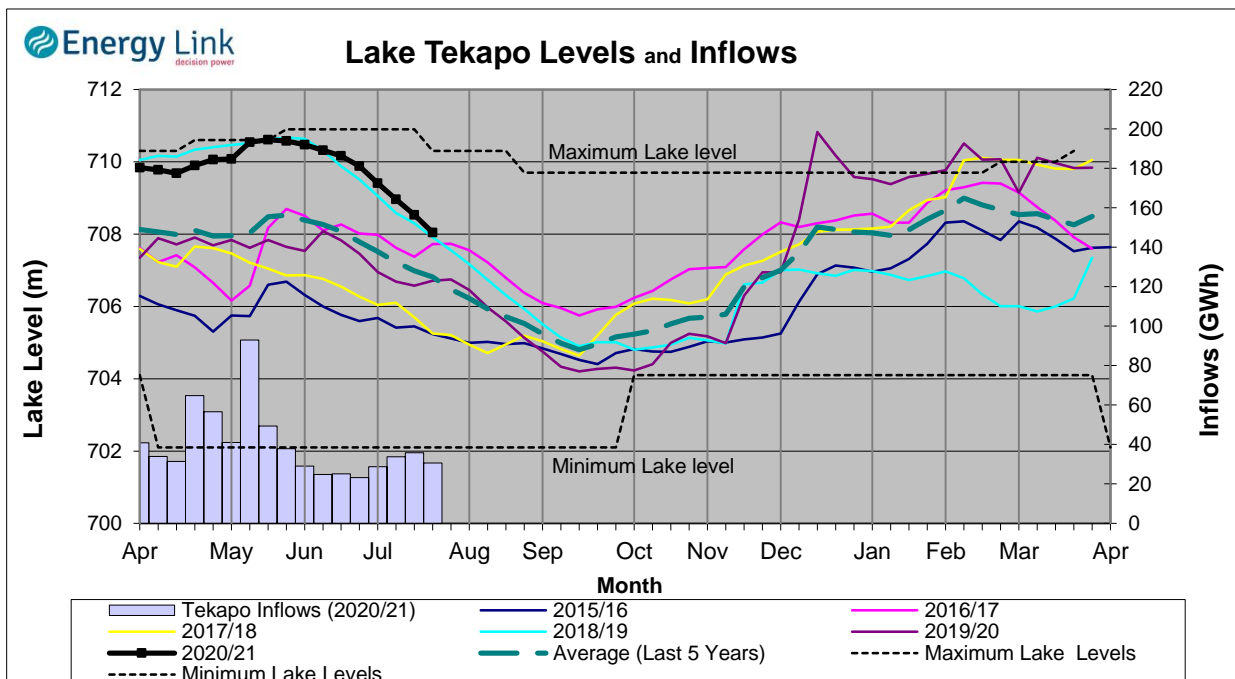


Lake Levels - Lake Taupo storage increased to 35.1% of nominal full at 200 GWh.

Inflows - Inflows decreased 3.2% to 69 GWh.

Generation - Average generation decreased 7.5% to 437.6 MW.

Tekapo



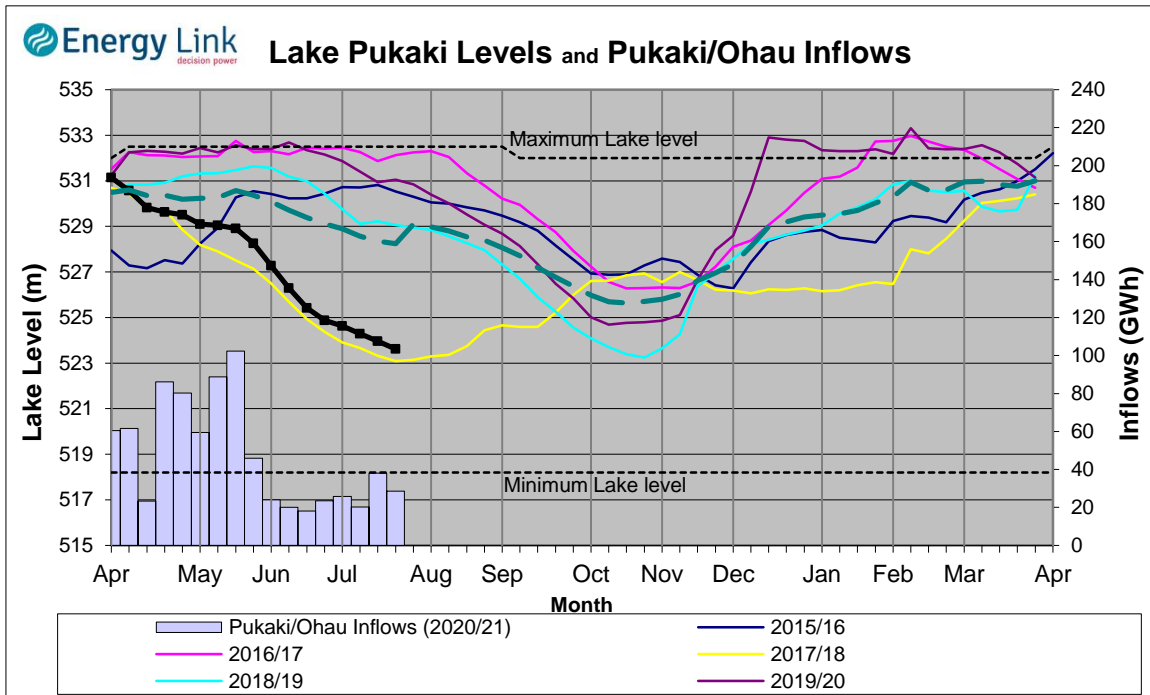
Lake Levels - Lake Tekapo ended the week 69% nominally full with storage falling to 589 GWh.

Inflows - Inflows into tekapo decreased 14.6% to 31 GWh.

Generation - Average Tekapo generation increased 1.1% to 175.1 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 36% nominally full with storage falling to 669 GWh.

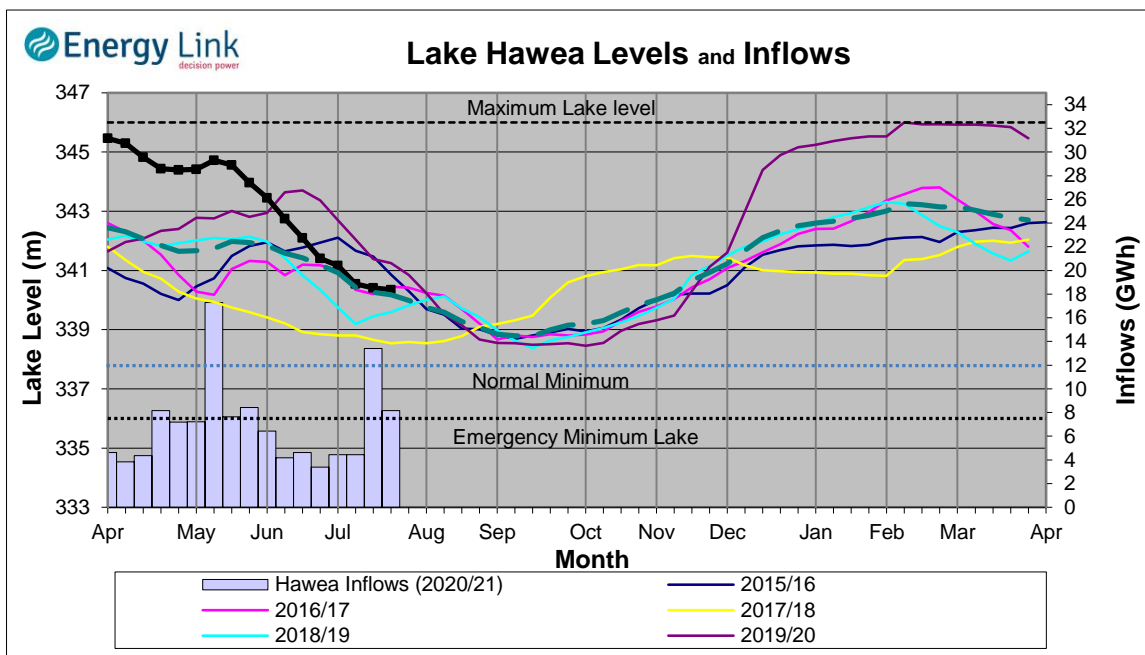
Inflows - Inflows into the Waitaki System decreased 25.1% to 29 GWh.

Generation - Average Waikati generation decreased 3.6% to 848.1 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 21.6 cumecs while Waitaki River flows were lower than last week averaging 357.9 cumecs.

Clutha System



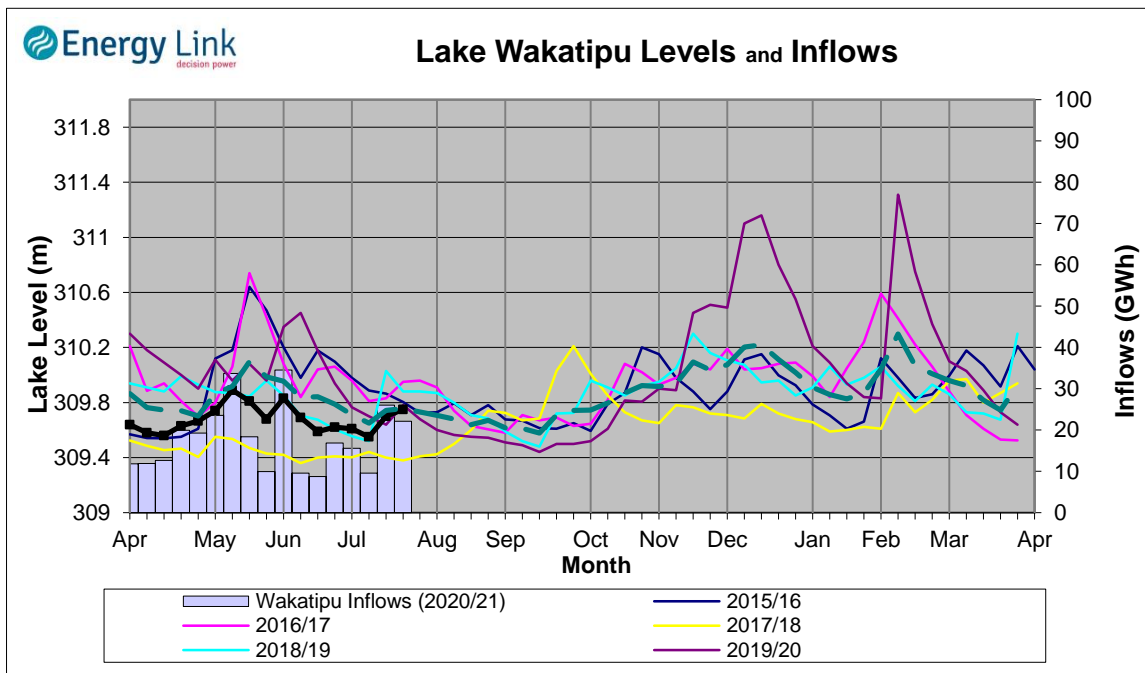
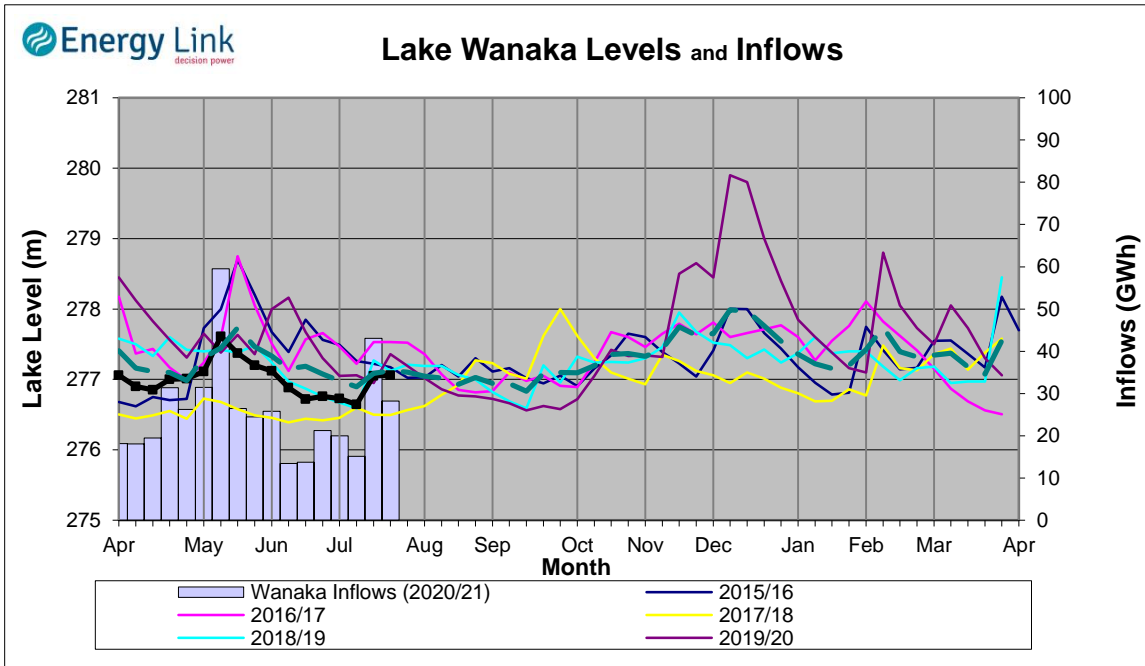
Lake Levels - Total storage for the Clutha System increased by 1.2% to 171 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 28.5%, 42.5% and 35.7% nominally full respectively.

Inflows - Total Inflows into the Clutha System 29.1% lower at 58 GWh.

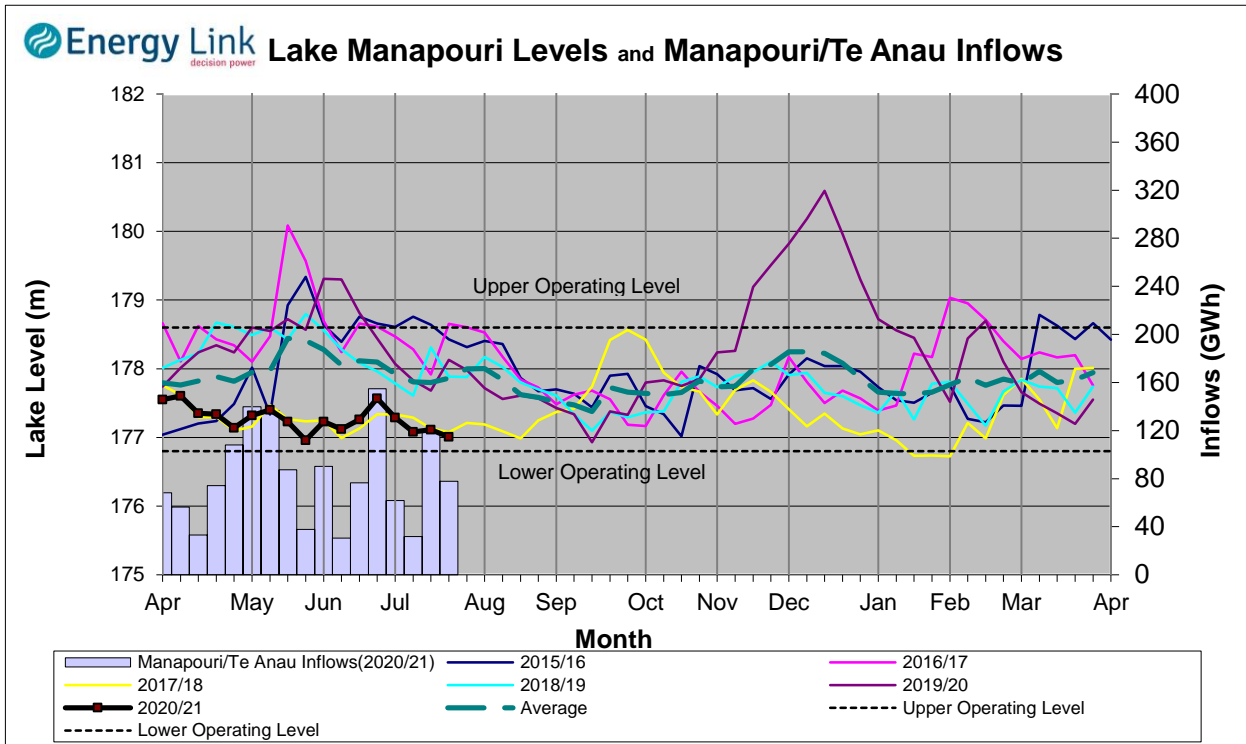
Generation - Average generation was 1.2% lower at 404 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 410.7 cumecs. This comprised of 66 cumecs from Lake Hawea, 178 cumecs from Lake Wanaka, 118 cumecs from Lake Wakatipu and 49 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 1.2% to 252 GWh with Lake Manapouri ending the week 41.7% nominally full and Lake Te Anau ending the week 66.8% nominally full.

Inflows - Total inflows into the Manapouri System decreased 35.4% to 78 GWh.

Generation - Average generation was 11.6% higher at 481 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 64.6 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'.

