



Thursday, 30 July 2020

Issue: 1215

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)	1198	340	1537	209	1746
Storage Change (GWh)	-77	-31	-108	-16	-124

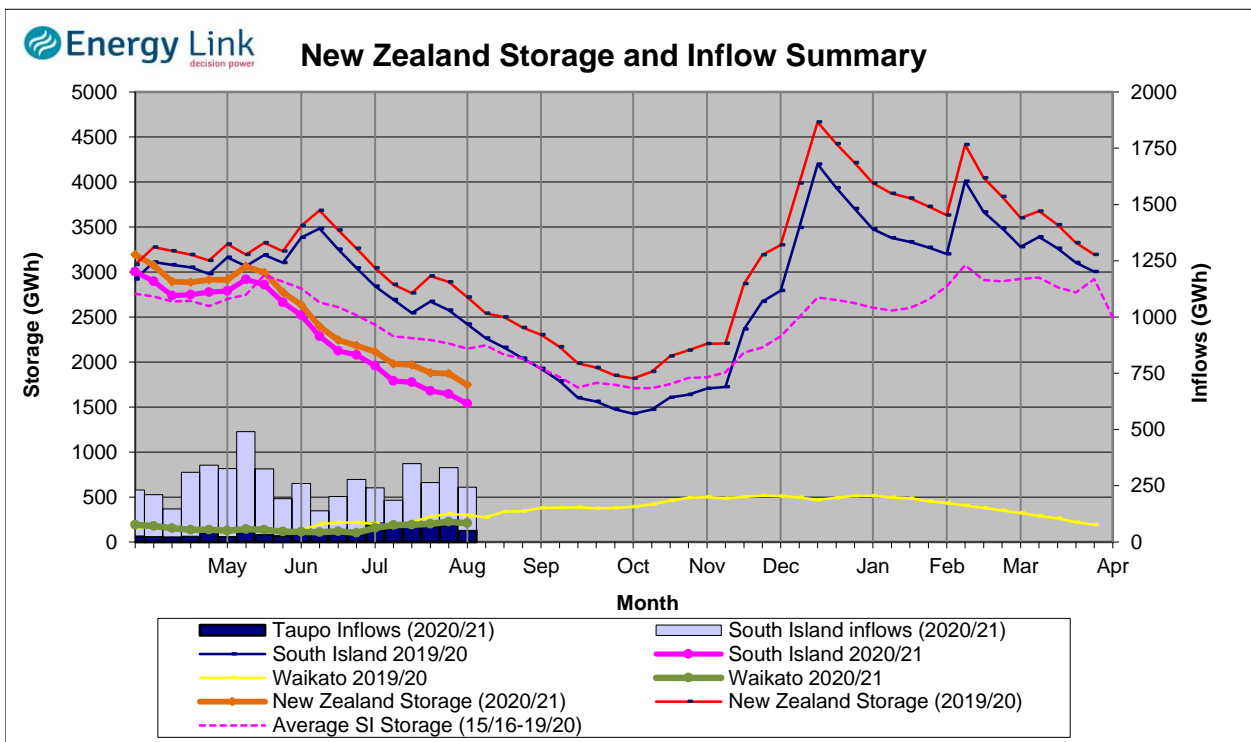
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1447	209	1656

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 124 GWh over the last week. South Island controlled storage decreased 6.1% to 1198 GWh; South Island uncontrolled storage decreased 8.3% to 340 GWh; with Taupo storage decreasing 7.1% to 209 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	249	174	1114	209	1746
Last Week	261	199	1186	225	1870
% Change	-4.4%	-12.6%	-6.0%	-7.1%	-6.6%
Inflow (GWh)					
This Week	74	41	77	52	244
Last Week	82	85	82	81	331
% Change	-9.4%	-52.4%	-6.4%	-36.2%	-26.3%

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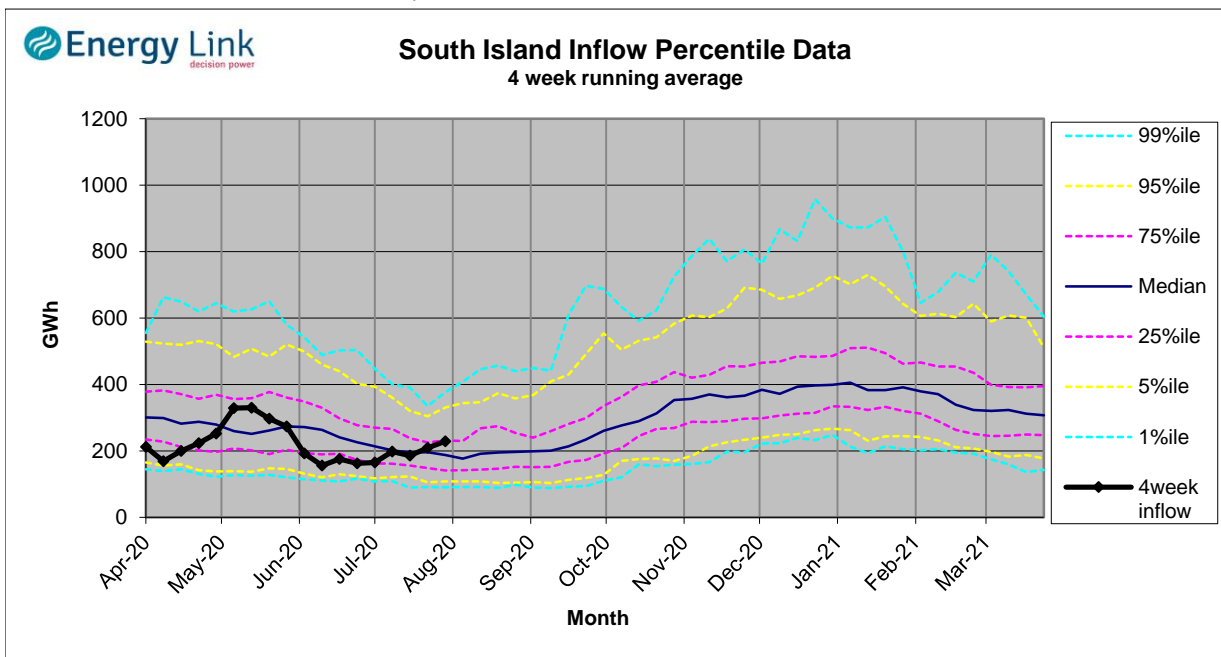
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.37	89	41	1
	Te Anau	201.93	160		
Clutha	Wakatipu	309.76	39	142	13
	Wanaka	277.13	52	202	
	Hawea	340.33	83	78	
Waitaki	Tekapo	707.11	491		
	Pukaki	523.26	623		
Waikato	Taupo	356.36	209		

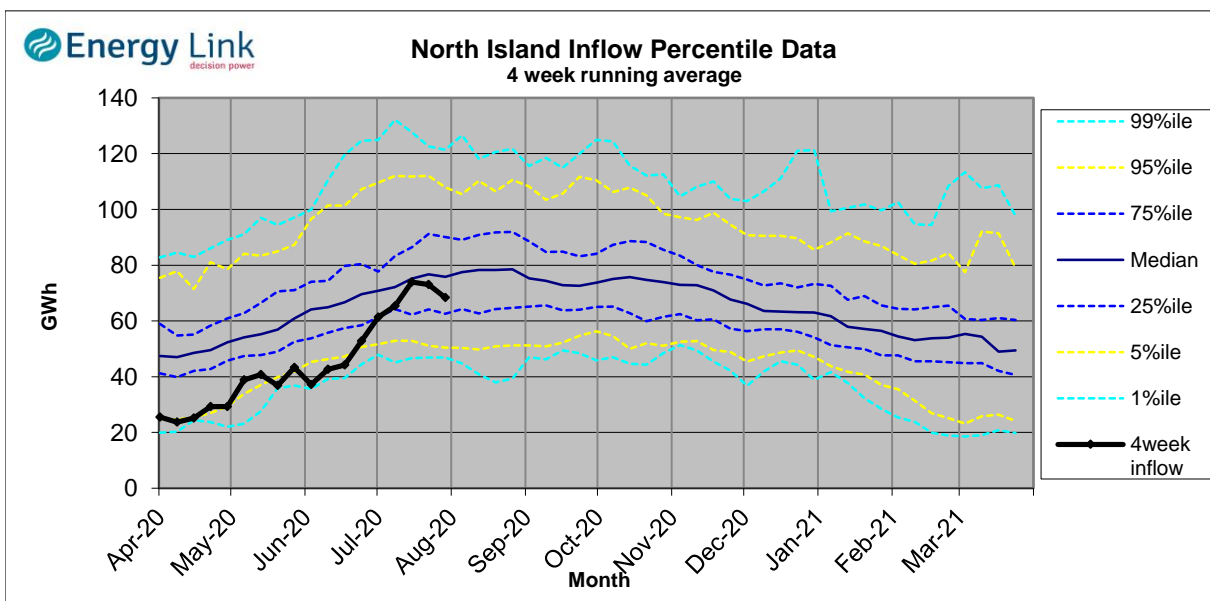
Inflow Summary

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.

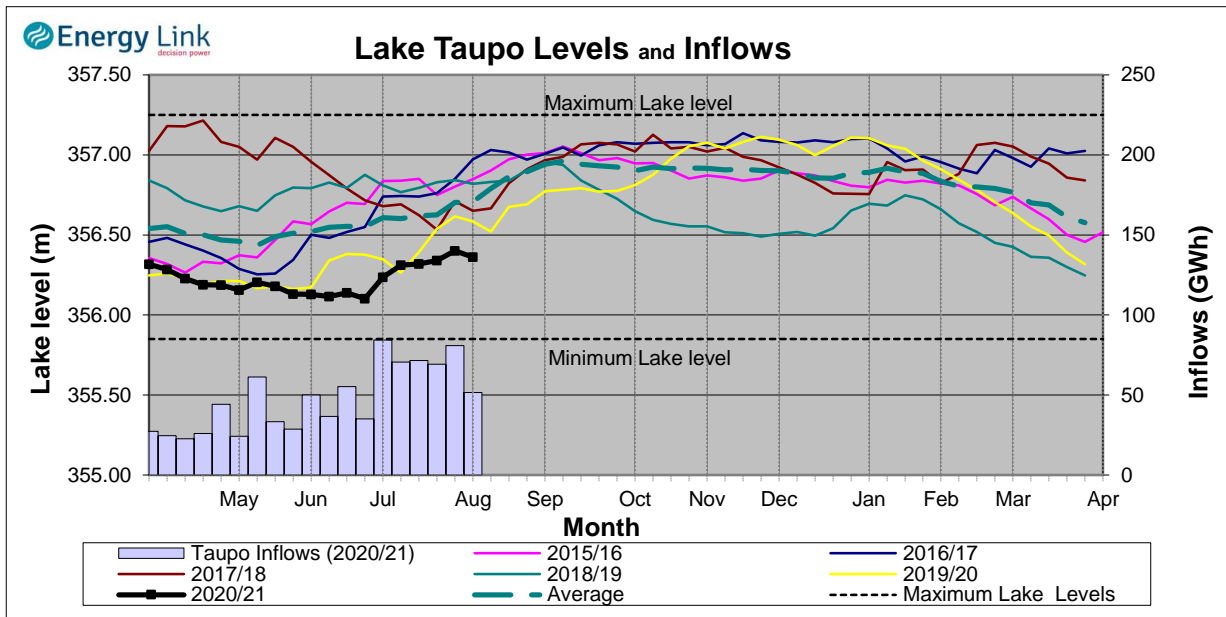
South Island Inflows - The past four weeks of S. I. inflows rank as the 26th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 30th driest on record.



Waikato System

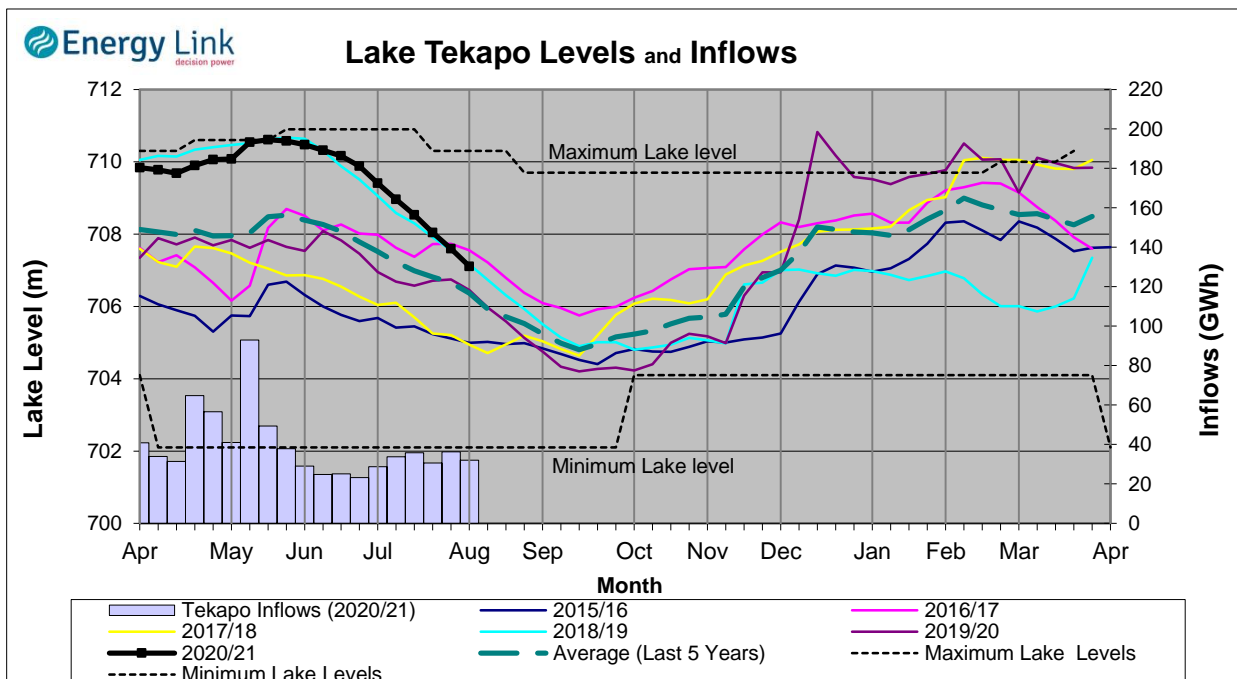


Lake Levels - Lake Taupo storage fell to 36.6% of nominal full at 209 GWh.

Inflows - Inflows decreased 36.2% to 52 GWh.

Generation - Average generation increased 15.6% to 464.7 MW.

Tekapo



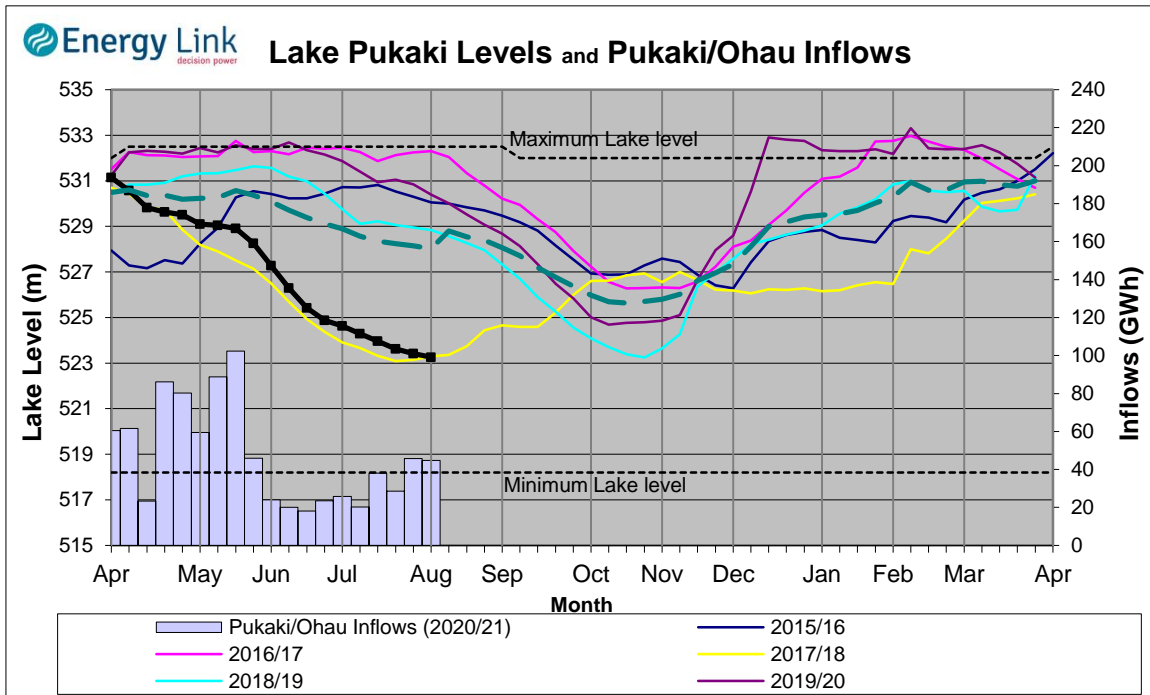
Lake Levels - Lake Tekapo ended the week 58% nominally full with storage falling to 491 GWh.

Inflows - Inflows into tekapo decreased 11.7% to 32 GWh.

Generation - Average Tekapo generation increased 0.3% to 174.9 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 34% nominally full with storage falling to 623 GWh.

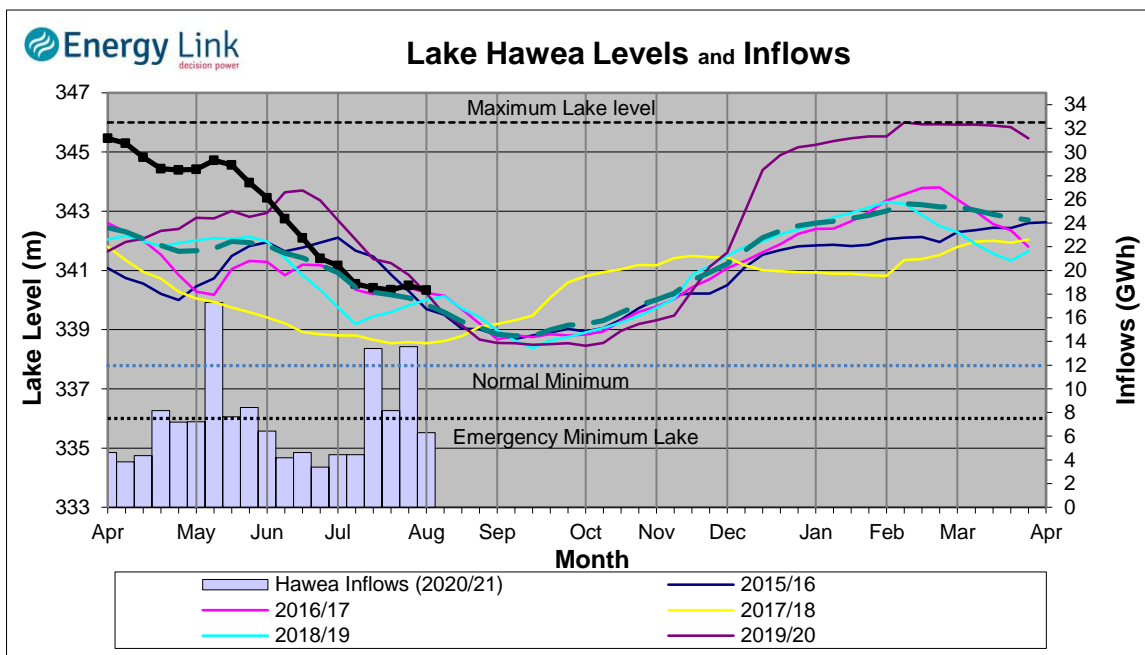
Inflows - Inflows into the Waitaki System decreased 2.3% to 45 GWh.

Generation - Average Waikati generation decreased 2.7% to 800.5 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 21 cumecs while Waitaki River flows were lower than last week averaging 333.4 cumecs.

Clutha System



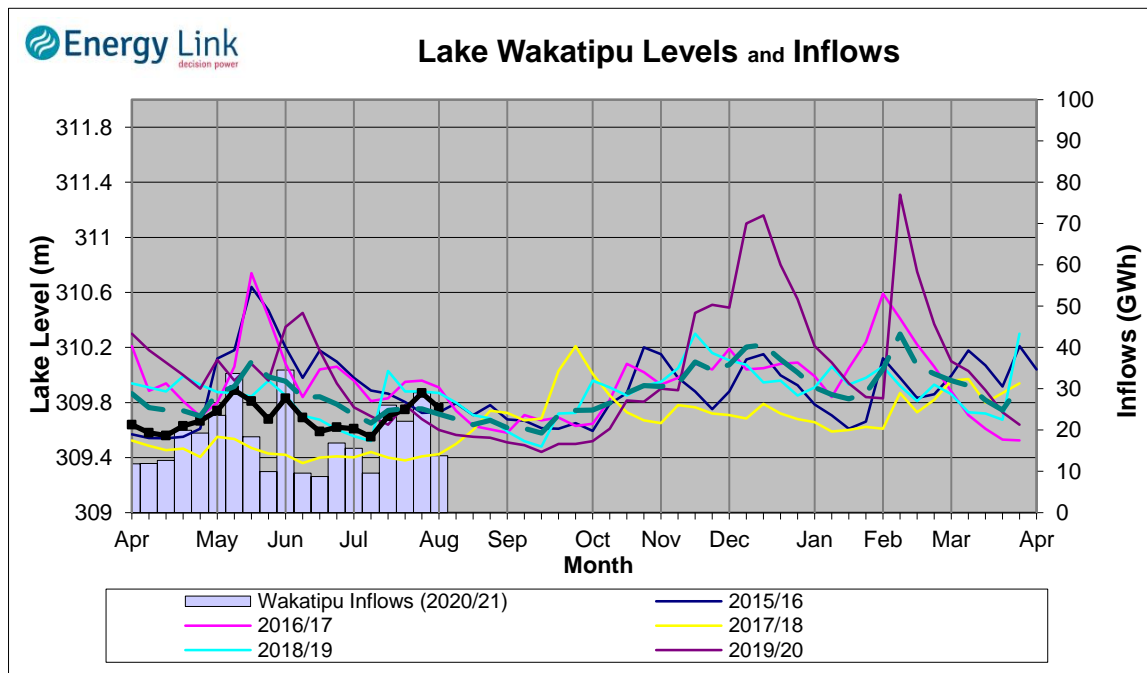
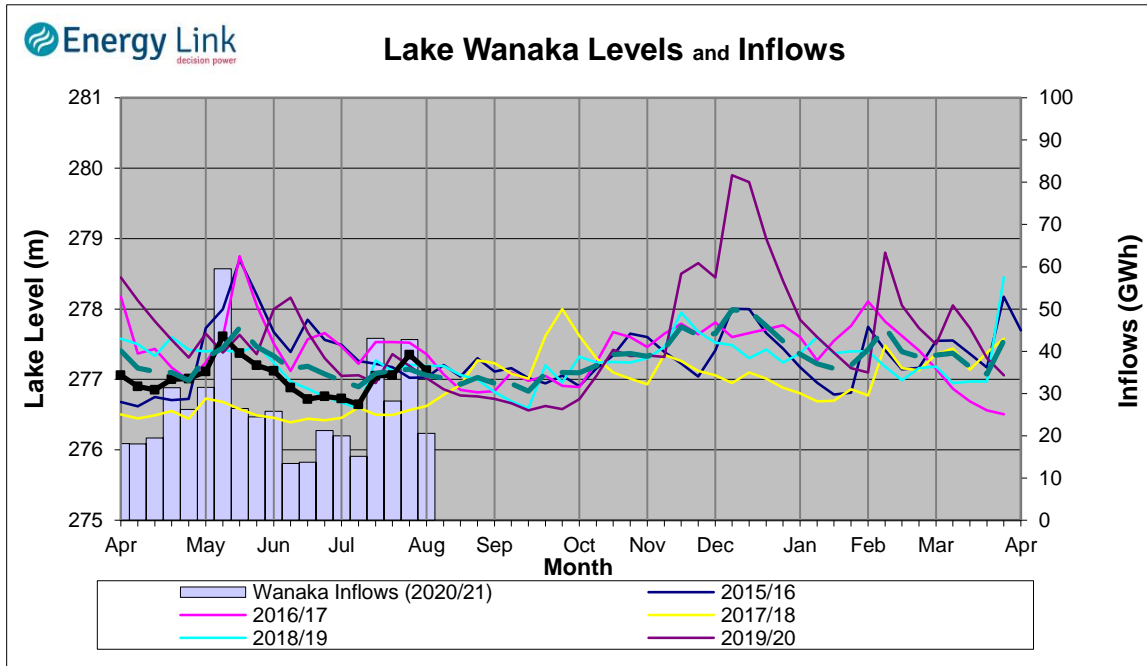
Lake Levels - Total storage for the Clutha System decreased 12.6% to 174 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 28.2%, 45.6% and 36.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 52.4% lower at 41 GWh.

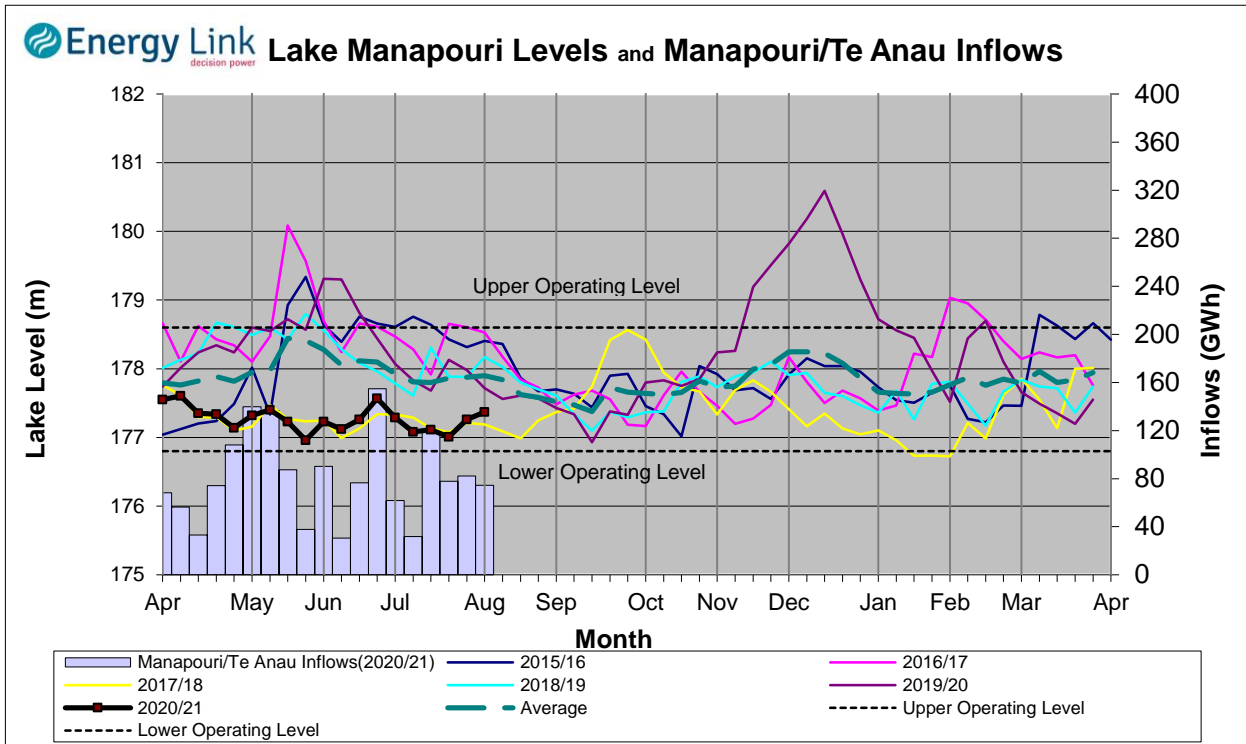
Generation - Average generation was 8.8% higher at 458 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 469.1 cumecs. This comprised of 78 cumecs from Lake Hawea, 202 cumecs from Lake Wanaka, 142 cumecs from Lake Wakatipu and 47 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 4.4% to 249 GWh with Lake Manapouri ending the week 54.8% nominally full and Lake Te Anau ending the week 58.2% nominally full.

Inflows - Total inflows into the Manapouri System decreased 9.4% to 74 GWh.

Generation - Average generation was 17% higher at 511 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 41.4 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'.

