



Thursday, 27 August 2020

Issue: 1219

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)	815	256	1071	180	1251
Storage Change (GWh)	-85	-42	-127	38	-89

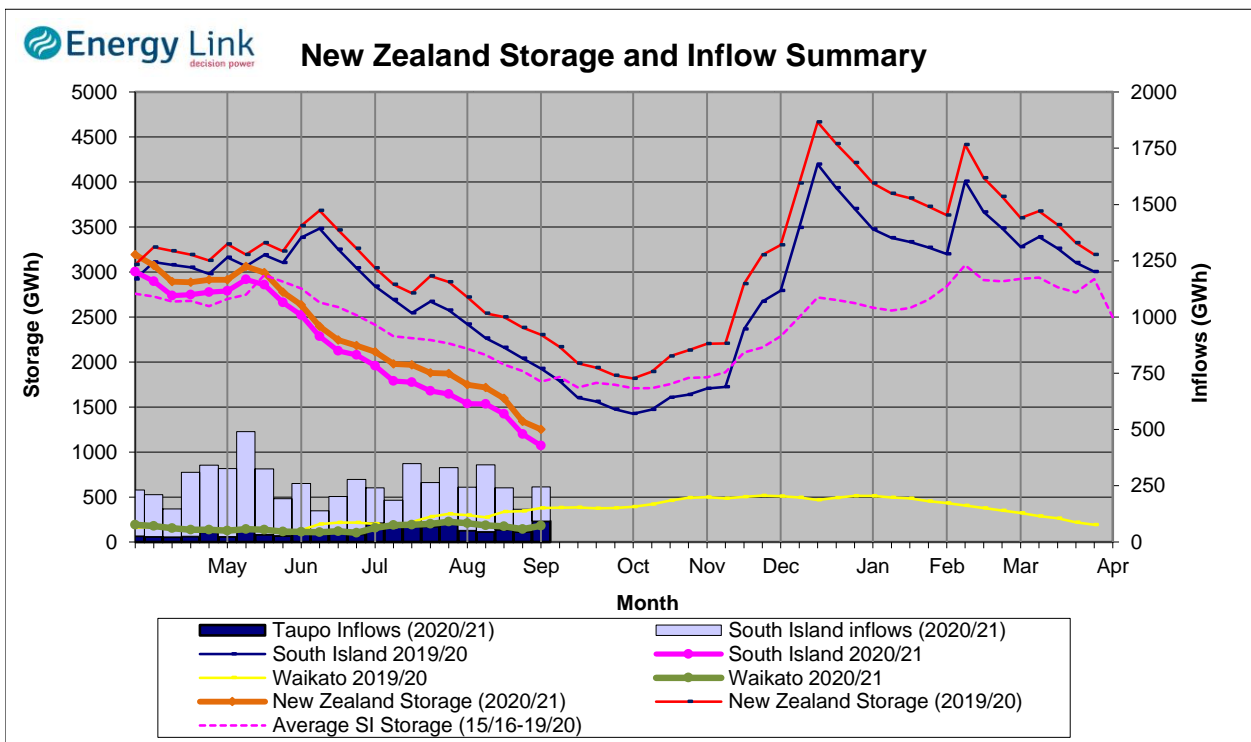
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	996	180	1176

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 89 GWh over the last week. South Island controlled storage decreased 9.4% to 815 GWh; South Island uncontrolled storage decreased 14.2% to 256 GWh; with Taupo storage increasing 26.6% to 180 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	181	113	777	180	1251
Last Week	210	145	843	142	1340
% Change	-13.9%	-21.7%	-7.9%	26.6%	-6.6%
Inflow (GWh)					
This Week	37	39	78	92	245
Last Week	35	33	31	46	146
% Change	4.1%	17.5%	147.8%	100.3%	68.5%

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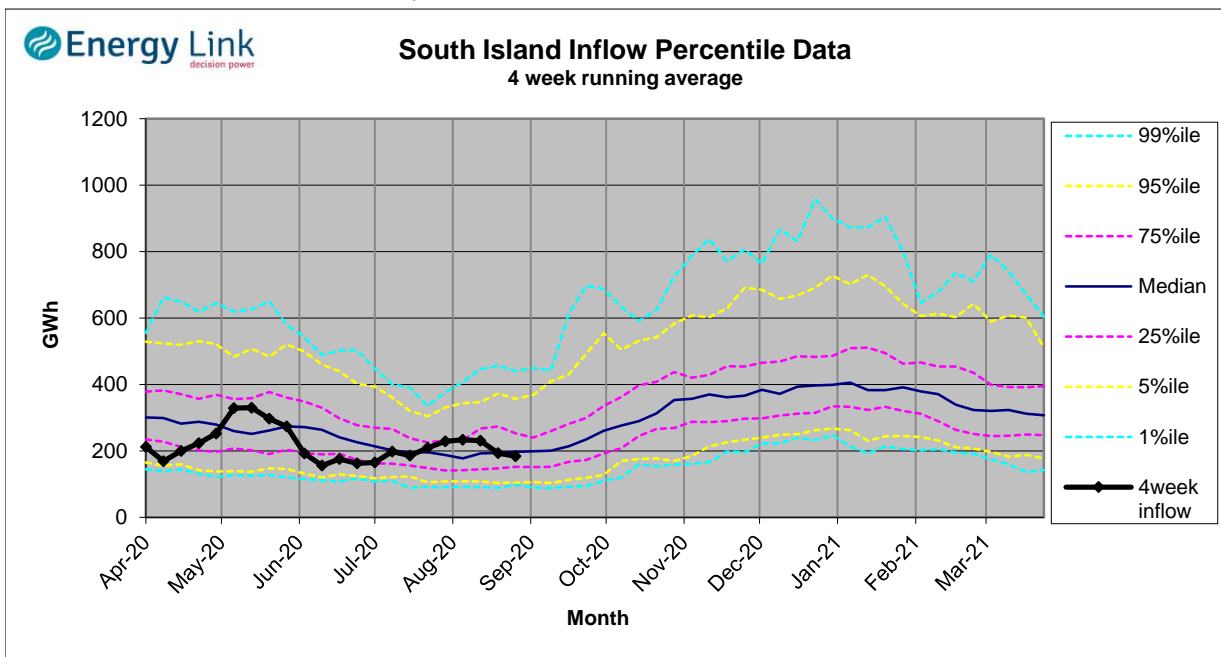
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.05	70	14	-8
	Te Anau	201.60	111		
Clutha	Wakatipu	309.63	28	104	-20
	Wanaka	277.02	47	187	
	Hawea	339.10	38	158	
Waitaki	Tekapo	705.25	302		
	Pukaki	522.08	475		
Waikato	Taupo	356.29	180		

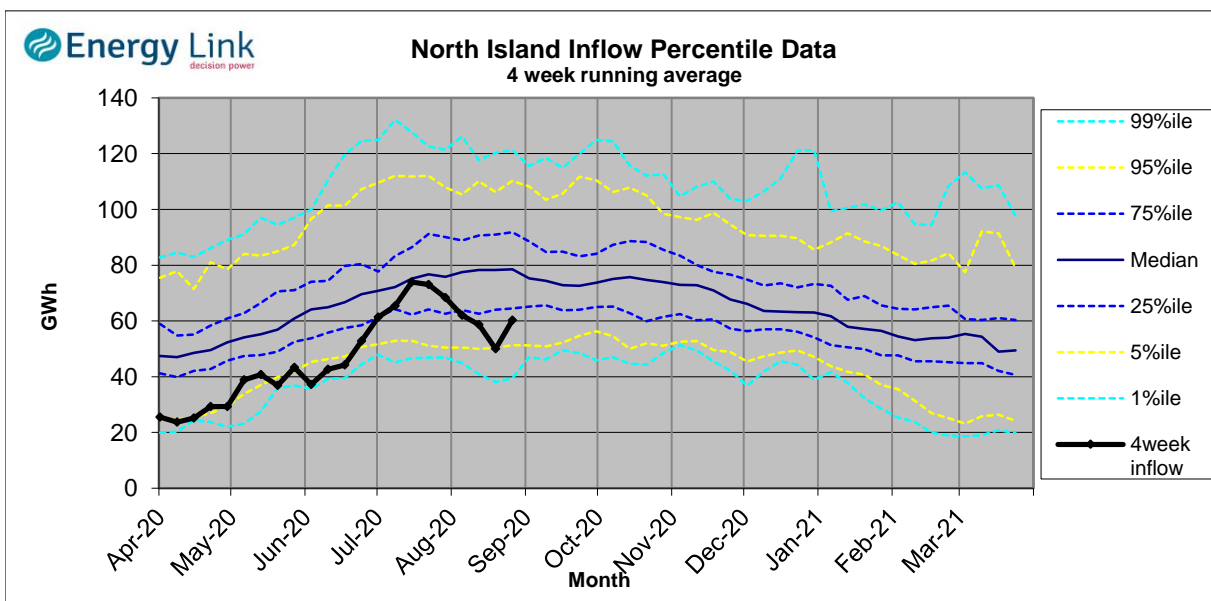
Inflow Summary

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.

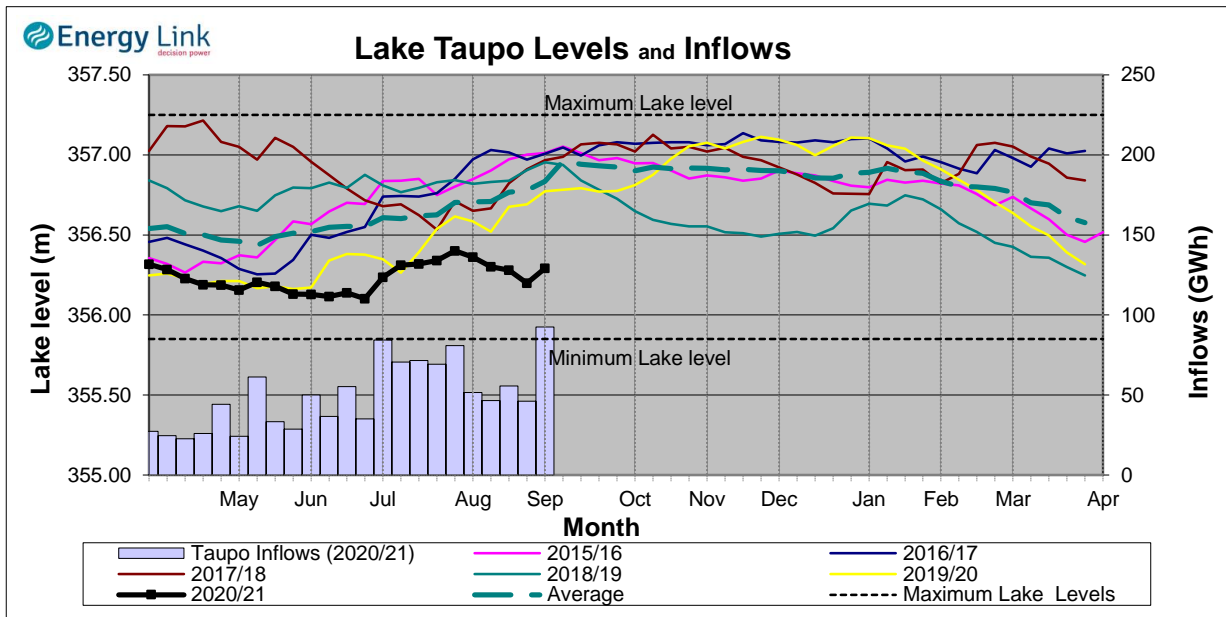
South Island Inflows - The past four weeks of S. I. inflows rank as the 37th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 17th driest on record.



Waikato System

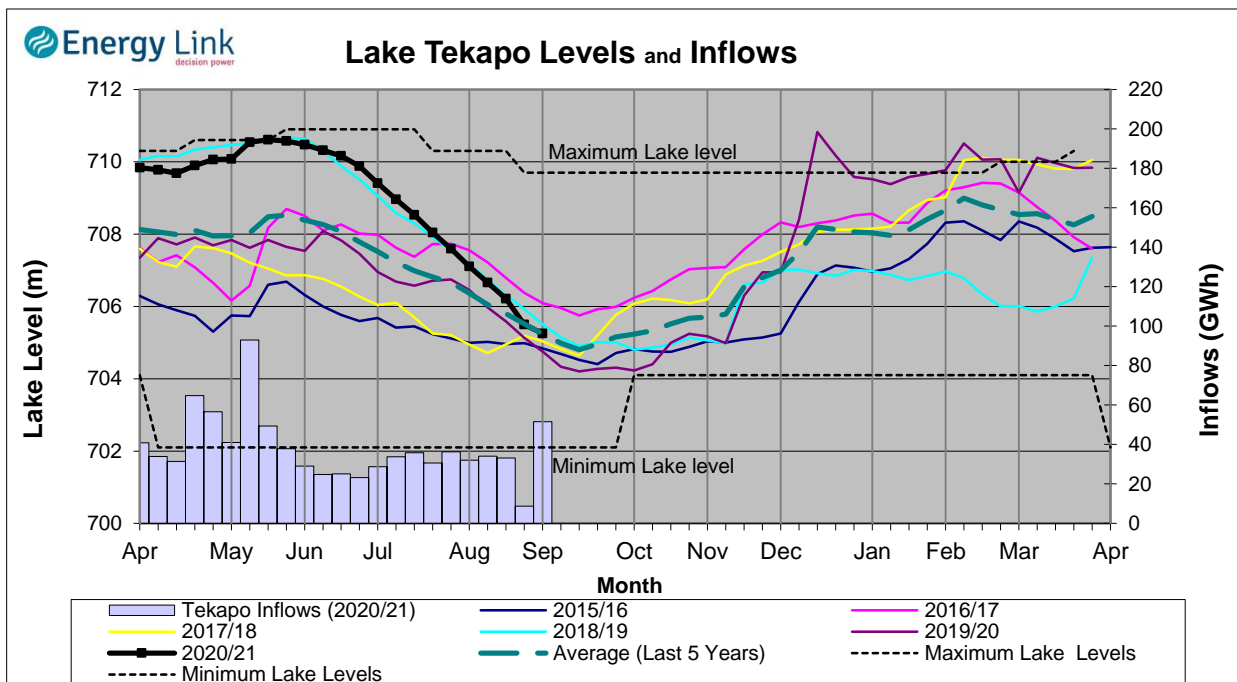


Lake Levels - Lake Taupo storage increased to 31.6% of nominal full at 180 GWh.

Inflows - Inflows increased 100.3% to 92 GWh.

Generation - Average generation decreased 18% to 399.9 MW.

Tekapo



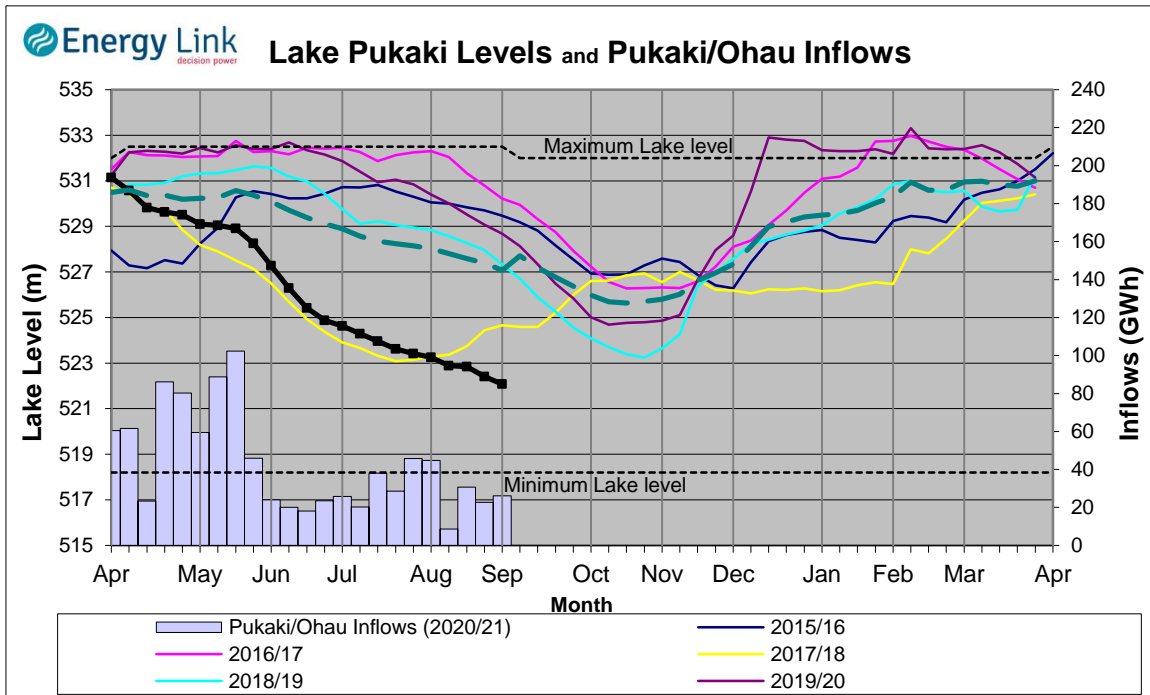
Lake Levels - Lake Tekapo ended the week 38% nominally full with storage falling to 302 GWh.

Inflows - Inflows into tekapo increased 494.9% to 51 GWh.

Generation - Average Tekapo generation decreased 3.2% to 155.1 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 26% nominally full with storage falling to 475 GWh.

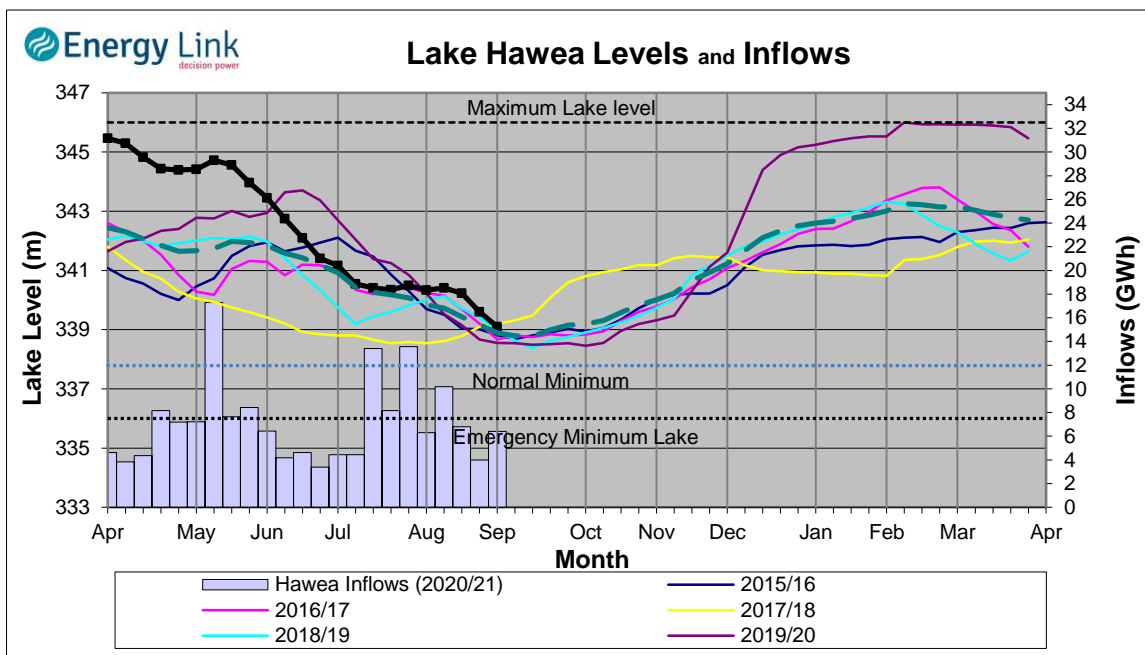
Inflows - Inflows into the Waitaki System increased 15.2% to 26 GWh.

Generation - Average Waikati generation decreased 6% to 775.8 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 12.8 cumecs while Waitaki River flows were lower than last week averaging 317.5 cumecs.

Clutha System



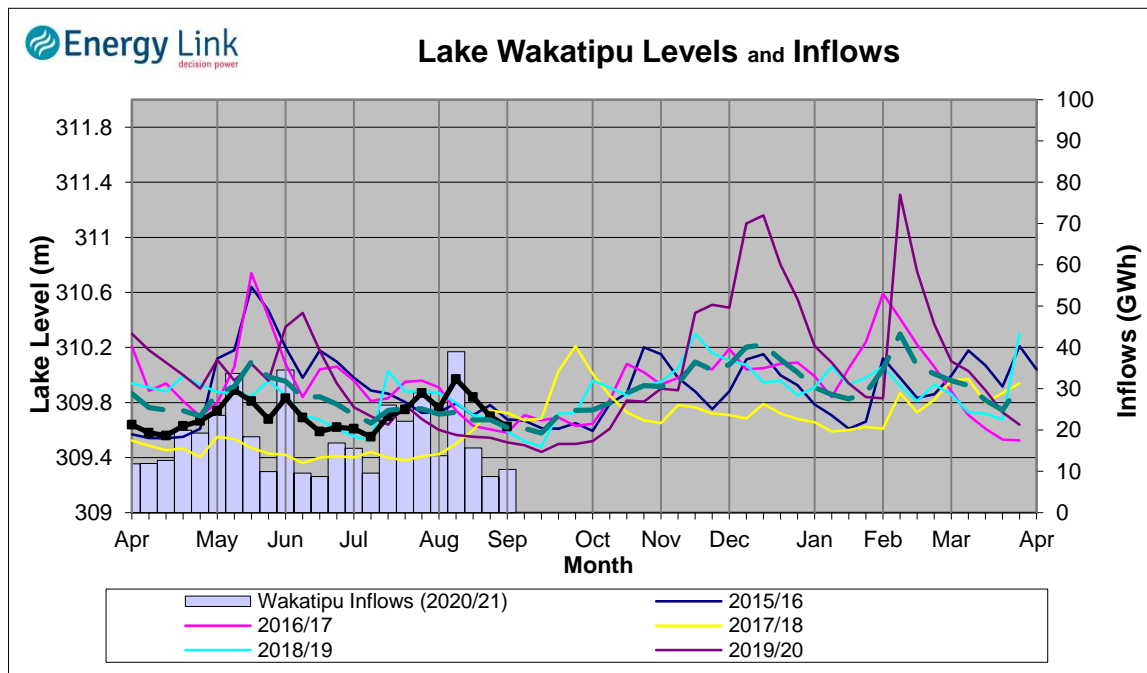
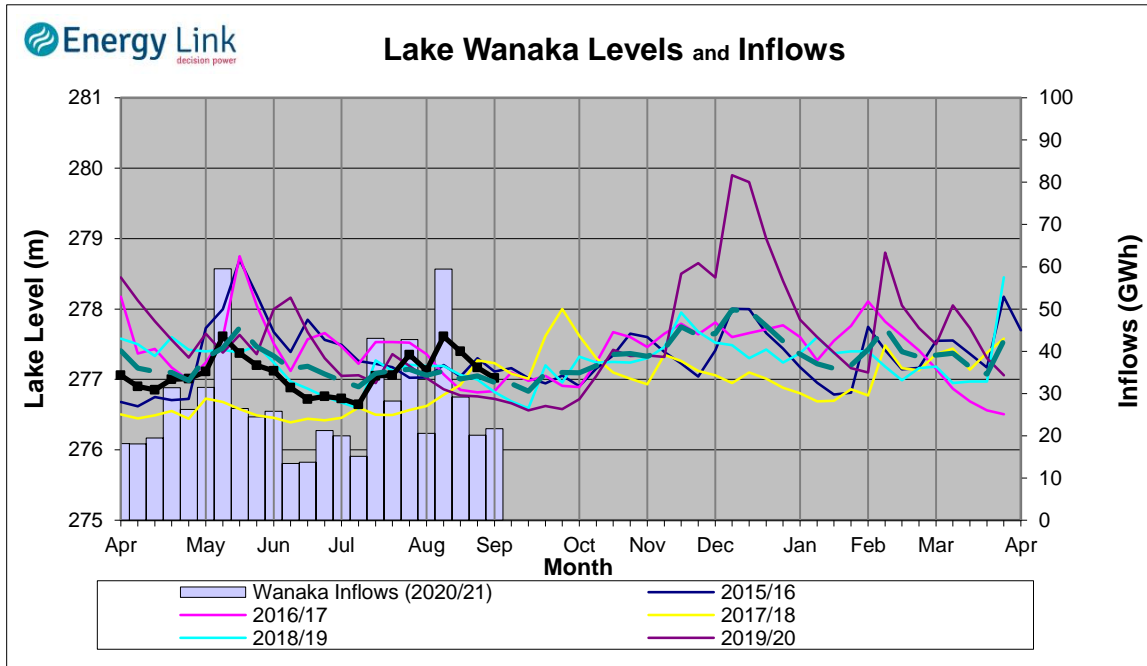
Lake Levels - Total storage for the Clutha System decreased 21.7% to 113 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 13%, 40.8% and 26.8% nominally full respectively.

Inflows - Total Inflows into the Clutha System 17.5% higher at 39 GWh.

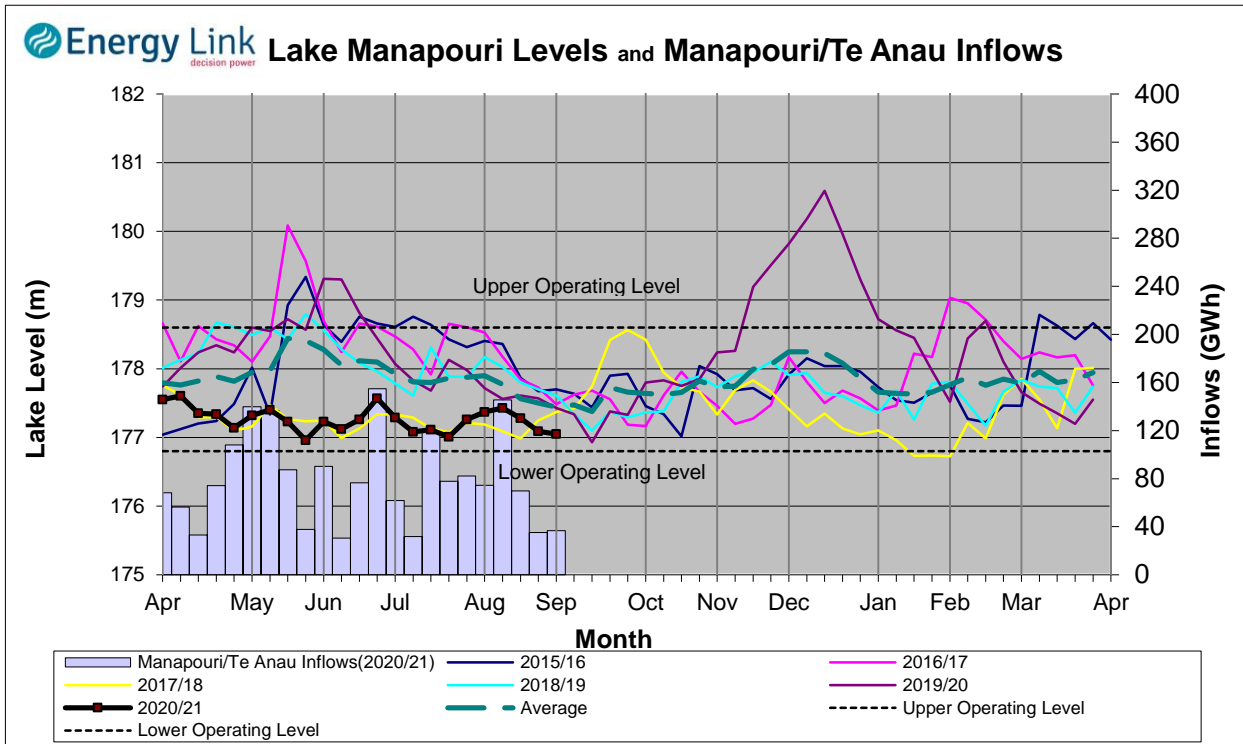
Generation - Average generation was 10.1% lower at 462 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 487.3 cumecs. This comprised of 158 cumecs from Lake Hawea, 187 cumecs from Lake Wanaka, 104 cumecs from Lake Wakatipu and 38 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 13.9% to 181 GWh with Lake Manapouri ending the week 43.1% nominally full and Lake Te Anau ending the week 40.2% nominally full.

Inflows - Total inflows into the Manapouri System increased 4.1% to 37 GWh.

Generation - Average generation was 24.1% lower at 393 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 13.7 cumecs.

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

