



Thursday, 02 September 2021

Issue: 1272

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)	1896	604	2500	275	2775
Storage Change (GWh)	-6	-20	-26	29	3

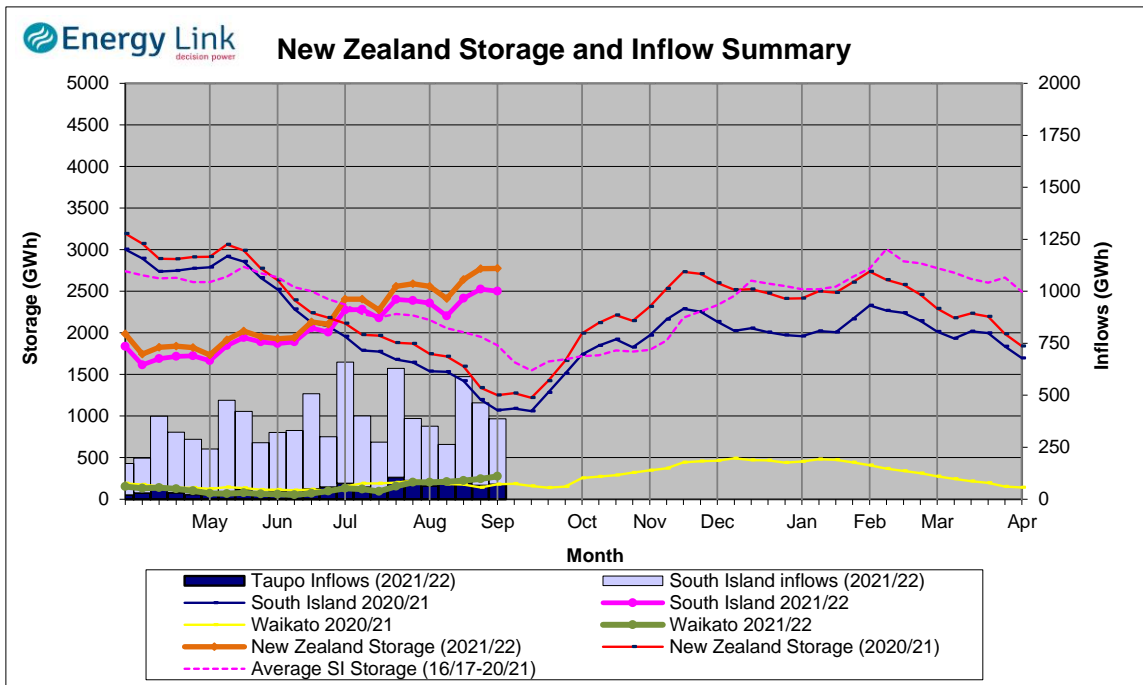
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2372	275	2647

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 increased 2.9 GWh over the last week. South Island controlled storage decreased 0.3% to 1896 GWh; South Island uncontrolled storage decreased 3.2% to 604 GWh; with Taupo storage increasing 11.8% to 275 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
<b>This Week</b>	476	319	1705	275	2775
Last Week	482	325	1719	246	2772
% Change	-1.1%	-2.0%	-0.8%	11.8%	0.1%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
<b>This Week</b>	132	72	110	73	387
Last Week	197	97	102	68	463
% Change	-32.9%	-25.6%	7.7%	7.9%	-16.5%

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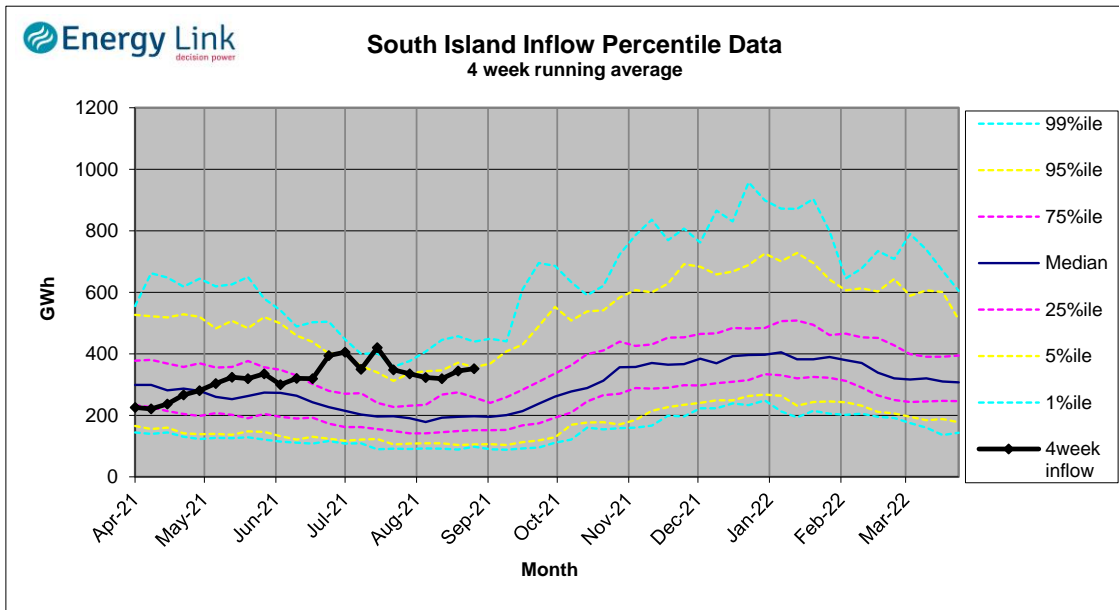
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	178.57	161	66	13
	Te Anau	202.97	316		
Clutha	Wakatipu	309.95	53	202	8
	Wanaka	277.59	75	286	
	Hawea	343.23	191	16	
Waitaki	Tekapo	705.73	350		40
	Pukaki	528.88	1355		
Waikato	Taupo	356.52	275		1

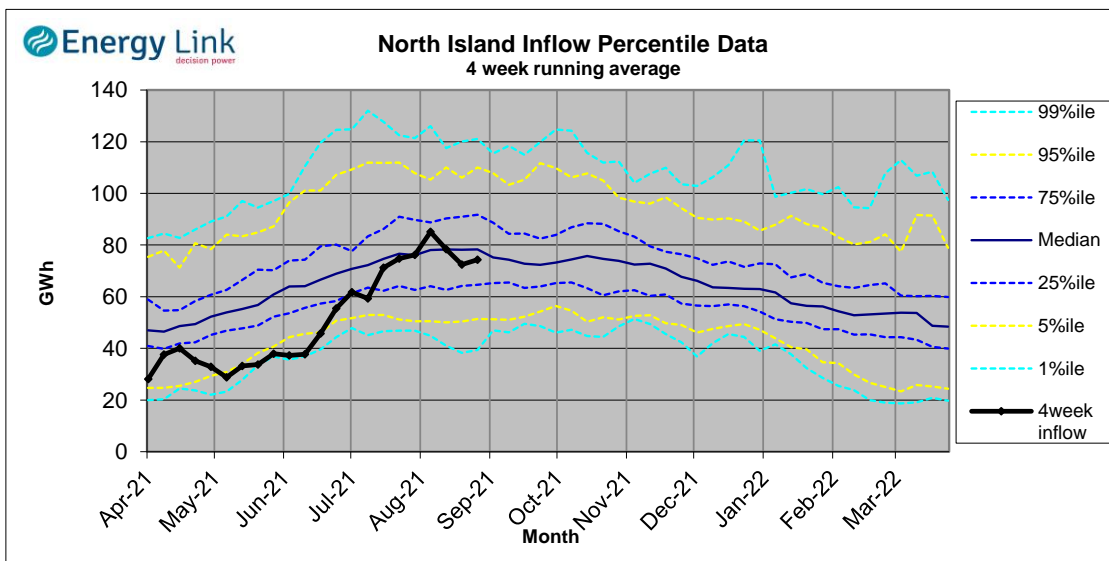
Inflow Summary

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.

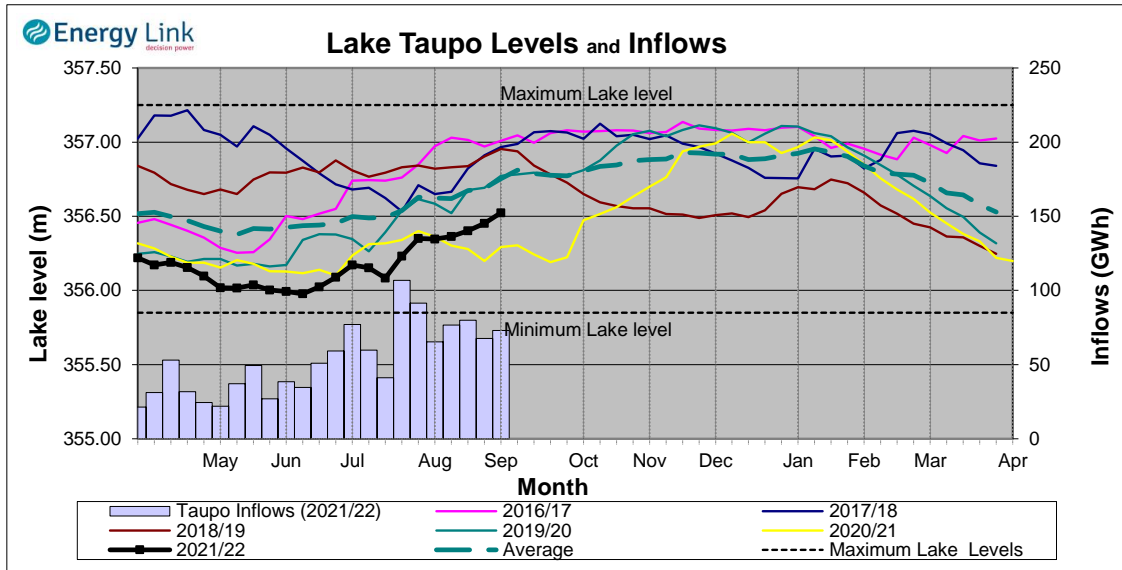
**South Island Inflows** - The past four weeks of S. I. inflows rank as the 7th wettest on record.



**North Island Inflows** - The past four weeks of N. I. inflows rank as the 38th driest on record.



## Waikato System

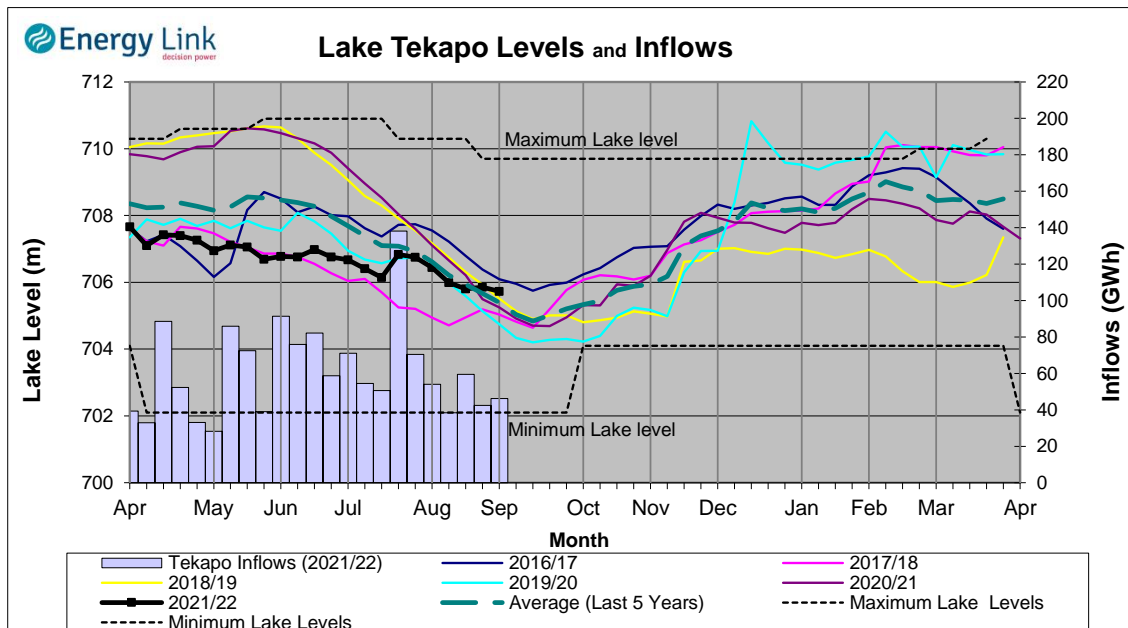


**Lake Levels** - Lake Taupo storage increased to 48.1% of nominal full at 275 GWh.

**Inflows** - Inflows increased 7.9% to 73 GWh.

**Generation** - Average generation decreased 4.7% to 326.3 MW.

## Tekapo



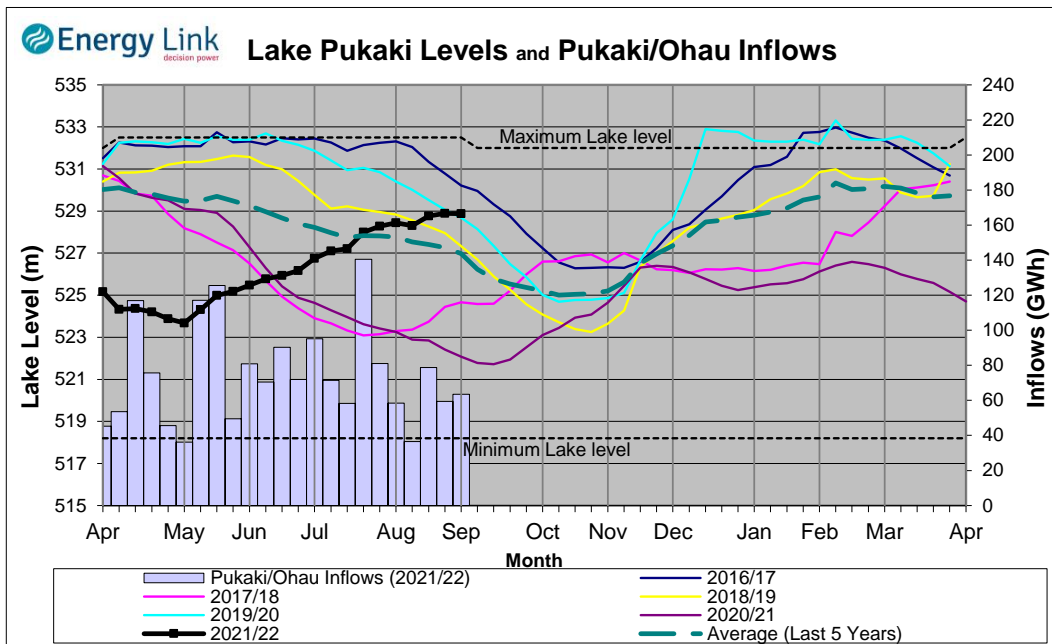
**Lake Levels** - Lake Tekapo ended the week 44% nominally full with storage falling to 350 GWh.

**Inflows** - Inflows into tekapo increased 8.9% to 46 GWh.

**Generation** - Average Tekapo generation increased 59.4% to 123.5 MW.

**Hydro Spill** - Lake Tekapo did not spill.

## Waitaki System



**Lake Levels** - Lake Pukaki ended the week 73% nominally full with storage falling to 1355 GWh.

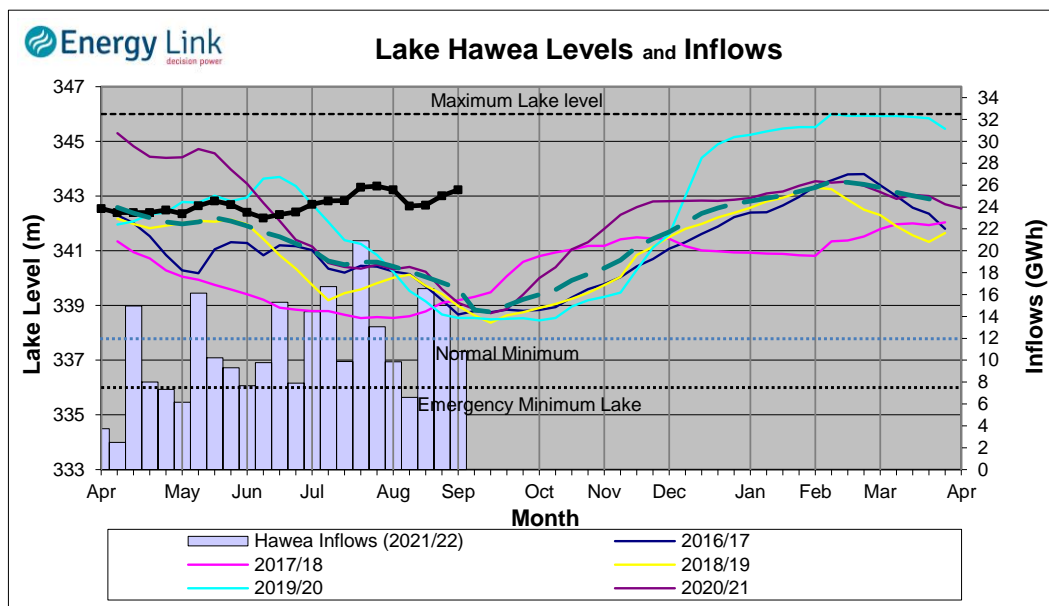
**Inflows** - Inflows into the Waitaki System increased 6.8% to 64 GWh.

**Generation** - Average Waikati generation increased 38.3% to 743.8 MW.

**Hydro Spill** - Lake Pukaki did not spill.

**River Flows** - Flows from the Ahuriri River fell to 35.6 cumecs while Waitaki River flows were higher than last week averaging 322.4 cumecs.

## Clutha System



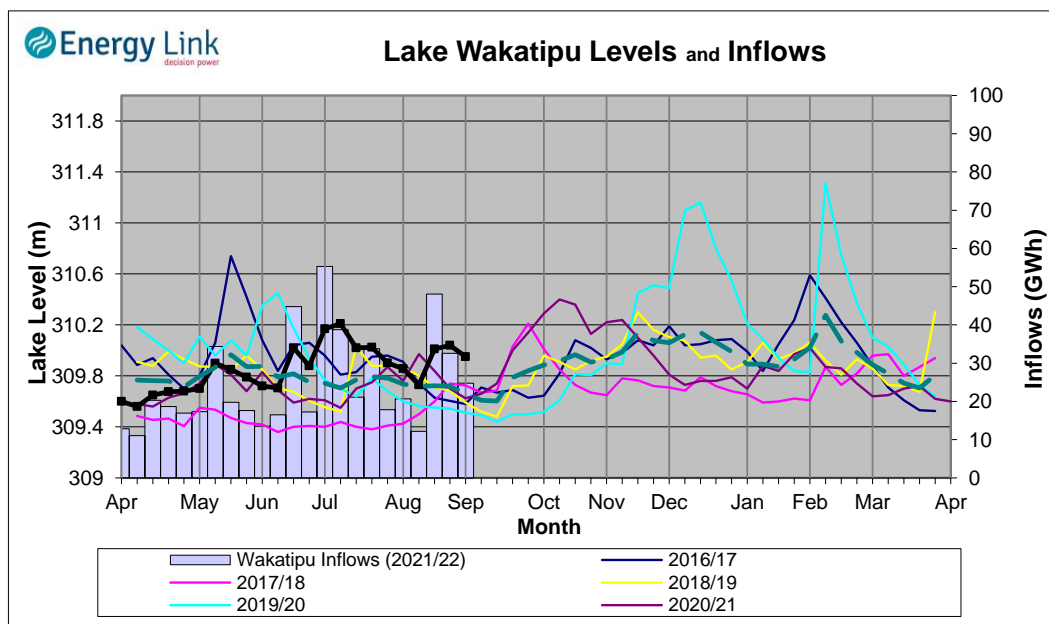
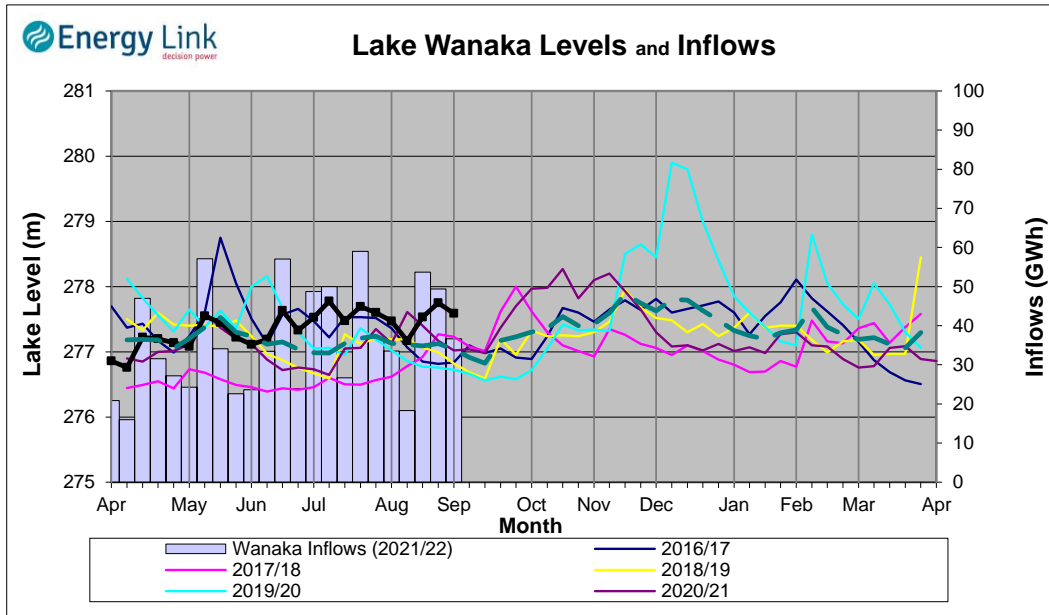
**Lake Levels** - Total storage for the Clutha System decreased 2% to 319 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 64.6%, 65.6% and 50% nominally full respectively.

**Inflows** - Total Inflows into the Clutha System 25.6% lower at 72 GWh.

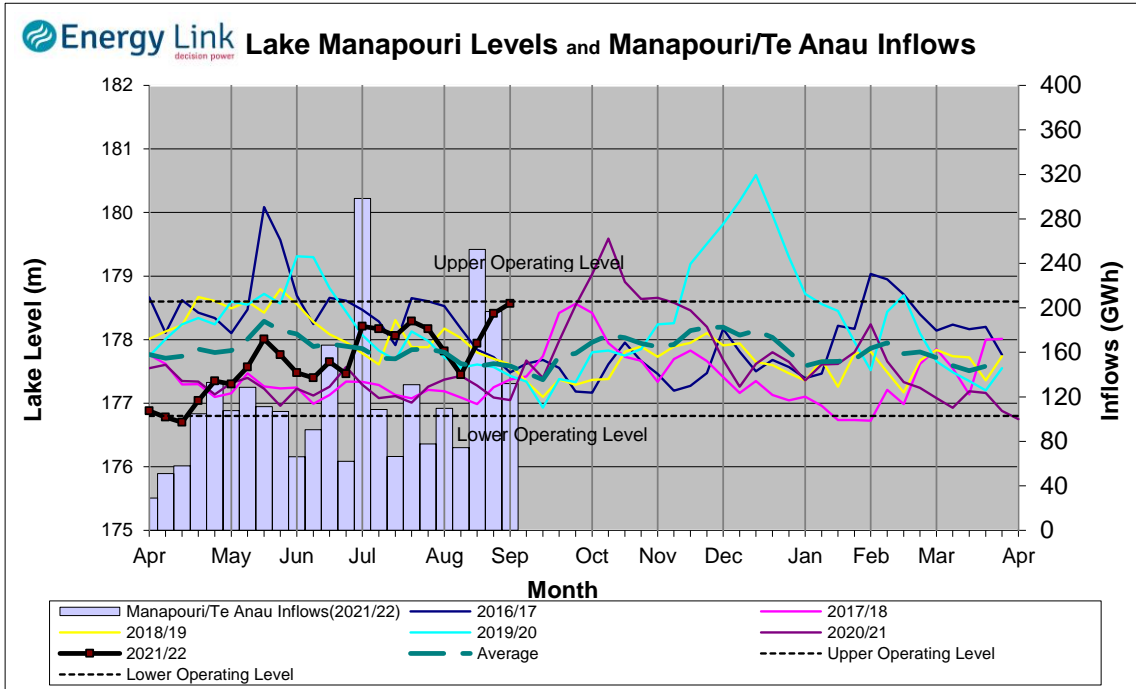
**Generation** - Average generation was 16.5% higher at 548 MW.

**Hydro Spill** - There was no estimated spill

**River Flows** - Total outflows from the lakes and Shotover River increased to 562.9 cumecs. This comprised of 16 cumecs from Lake Hawea, 286 cumecs from Lake Wanaka, 202 cumecs from Lake Wakatipu and 58 cumecs from the Shotover River.



### Manapouri System



**Lake Levels** - Total storage for the Manapouri System decreased 1.1% to 476 GWh with Lake Manapouri ending the week 98.9% nominally full and Lake Te Anau ending the week 114.7% nominally full.

**Inflows** - Total inflows into the Manapouri System decreased 32.9% to 132 GWh.

**Generation** - Average generation was 0.1% lower at 734 MW.

**Hydro Spill** - Estimated spill at the Mararoa Weir was 66.4 cumecs.

**Operating Range** - Lake Manapouri is operating in the upper end of its 'Main operating range' while Lake Te Anau is operating in the lower end of its 'High operating range'.

