



Thursday, 06 August 2020

Issue: 1216

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)	1107	425	1532	184	1717
Storage Change (GWh)	-90	85	-5	-24	-30

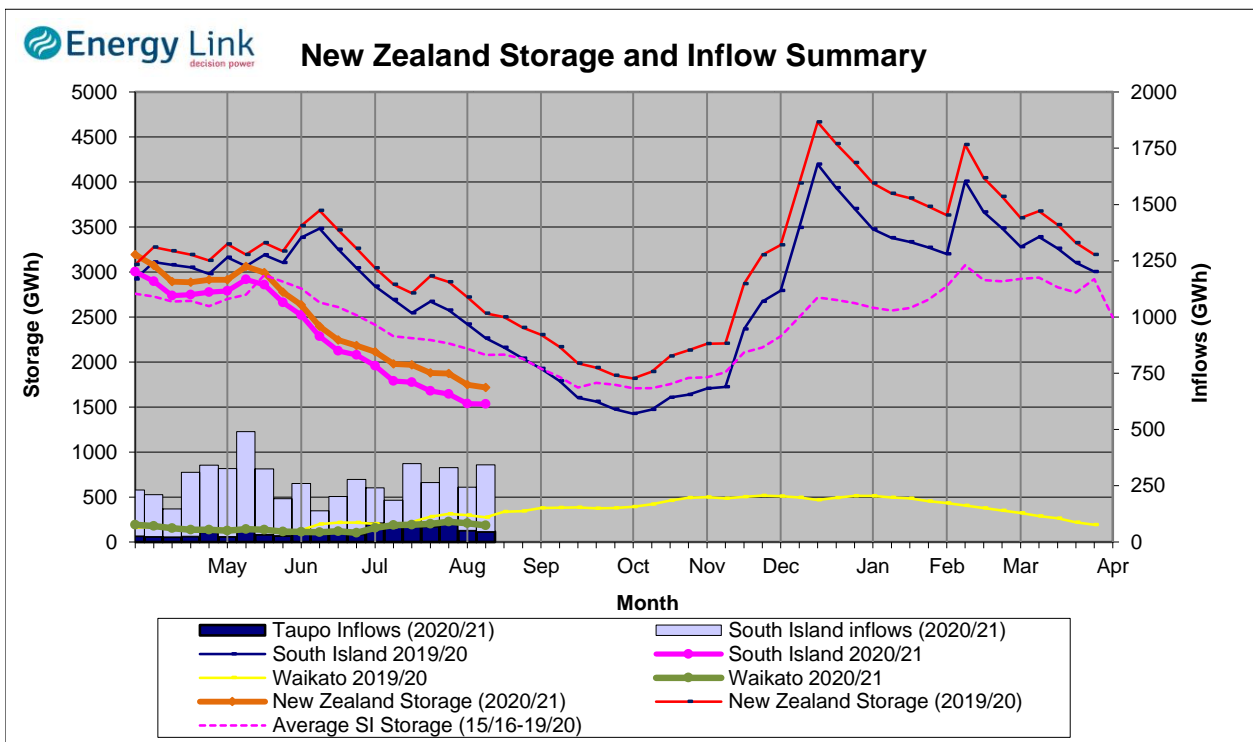
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1402	184	1586

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 29.6 GWh over the last week. South Island controlled storage decreased 7.5% to 1107 GWh; South Island uncontrolled storage increased 25.1% to 425 GWh; with Taupo storage decreasing 11.7% to 184 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
<b>This Week</b>	295	217	1021	184	1717
Last Week	249	174	1114	209	1746
% Change	18.2%	24.5%	-8.4%	-11.7%	-1.7%
Inflow (GWh)					
<b>This Week</b>	145	109	43	47	343
Last Week	74	41	77	52	244
% Change	95.2%	167.1%	-44.4%	-9.8%	40.9%

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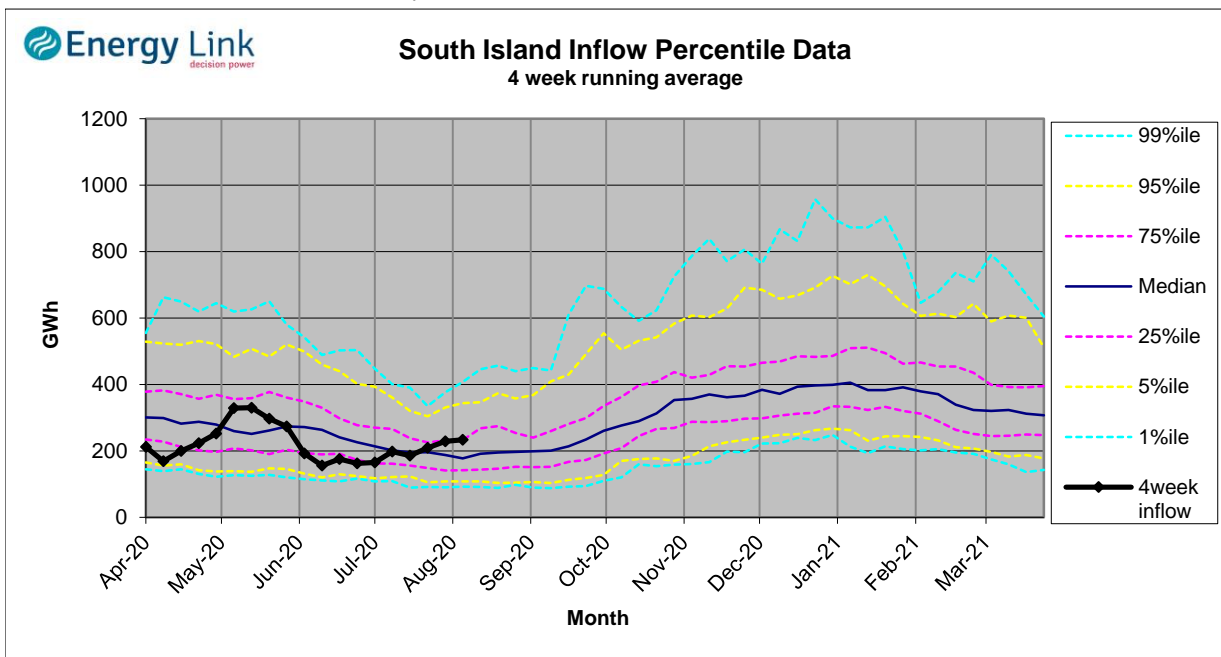
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.43	93	36	-6
	Te Anau	202.21	202		
Clutha	Wakatipu	309.97	54	148	6
	Wanaka	277.61	76	228	26
	Hawea	340.41	86	46	-32
Waitaki	Tekapo	706.66	445		
	Pukaki	522.89	576		
Waikato	Taupo	356.30	184		

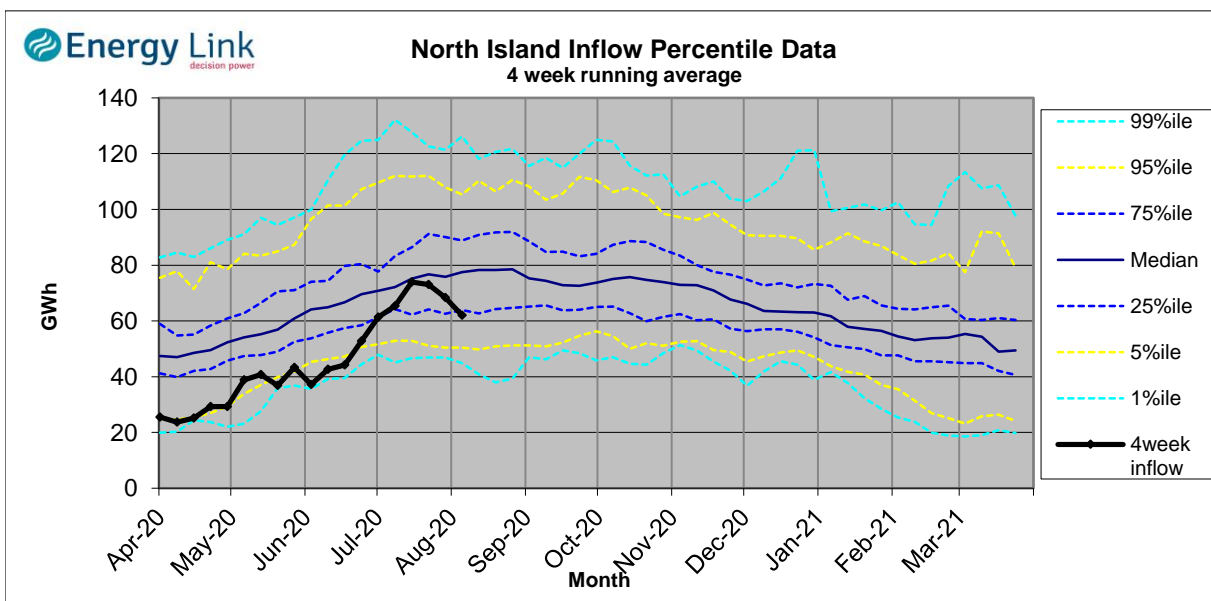
Inflow Summary

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.

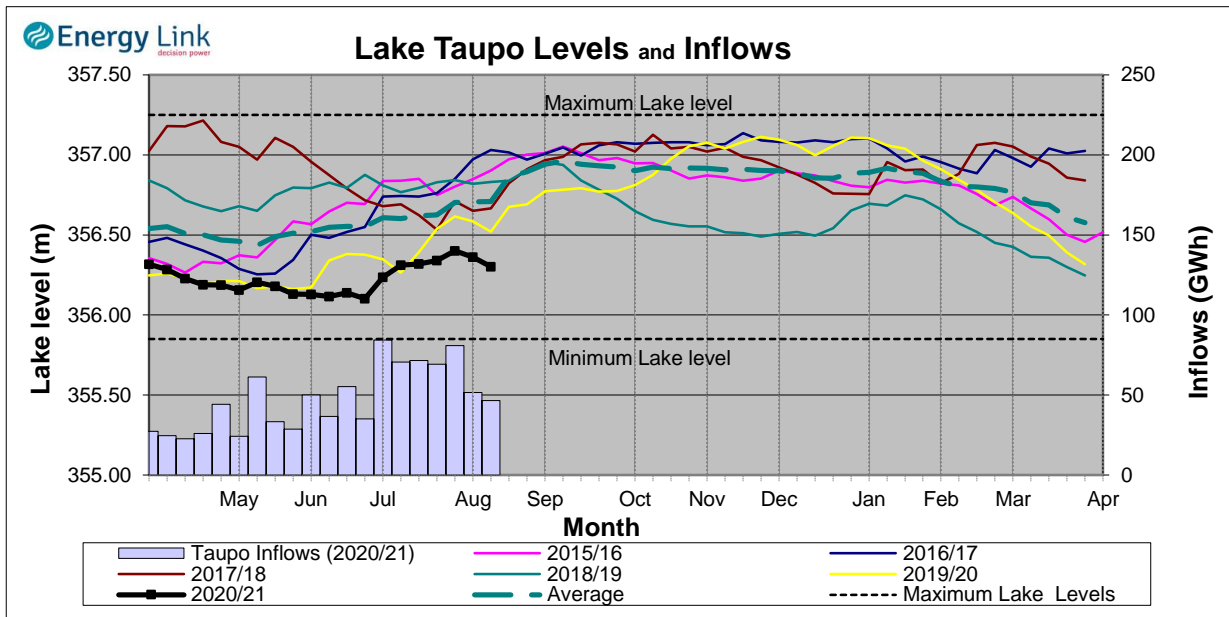
**South Island Inflows** - The past four weeks of S. I. inflows rank as the 23rd wettest on record.



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



# Waikato System

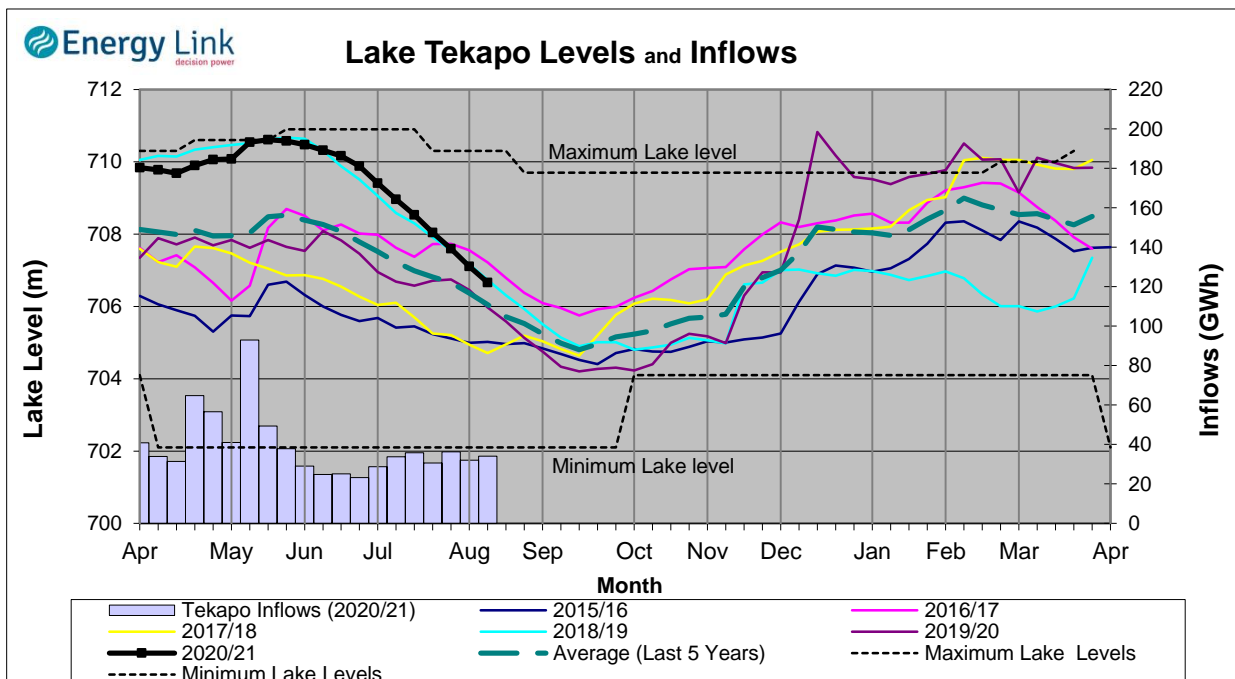


**Lake Levels** - Lake Taupo storage fell to 32.3% of nominal full at 184 GWh.

**Inflows** - Inflows decreased 9.8% to 47 GWh.

**Generation** - Average generation decreased 2.1% to 454.9 MW.

# Tekapo



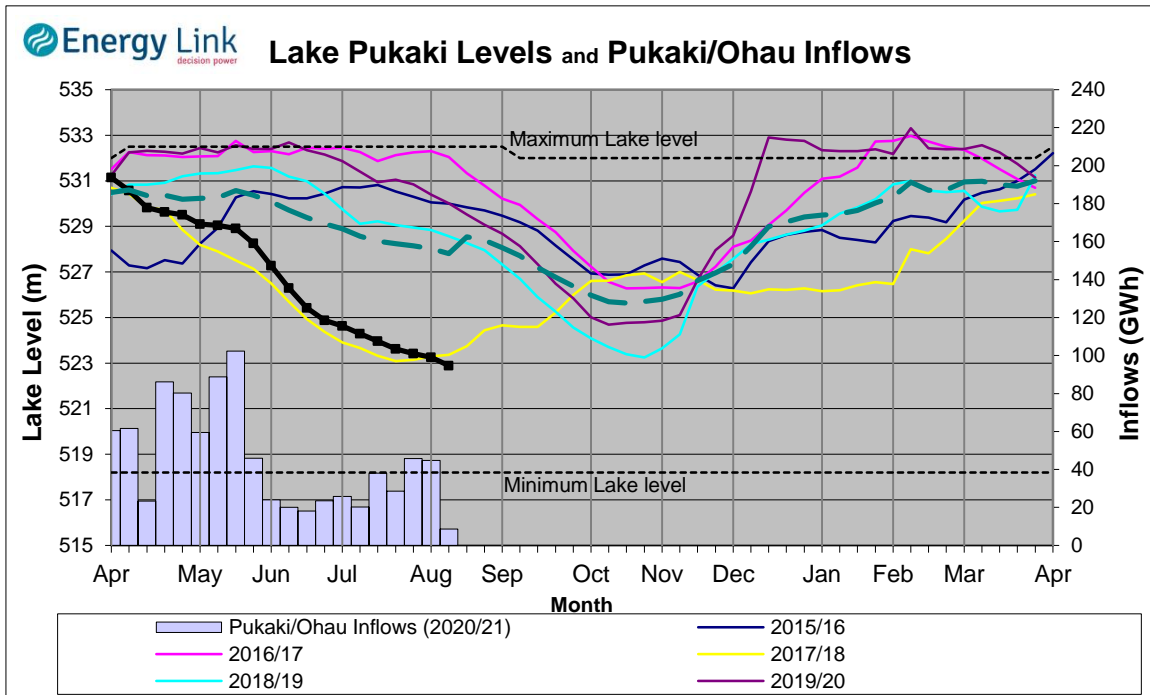
**Lake Levels** - Lake Tekapo ended the week 56% nominally full with storage falling to 445 GWh.

**Inflows** - Inflows into tekapo increased 6.3% to 34 GWh.

**Generation** - Average Tekapo generation decreased 3.4% to 168.9 MW.

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

## Waitaki System



**Lake Levels** - Lake Pukaki ended the week 31% nominally full with storage falling to 576 GWh.

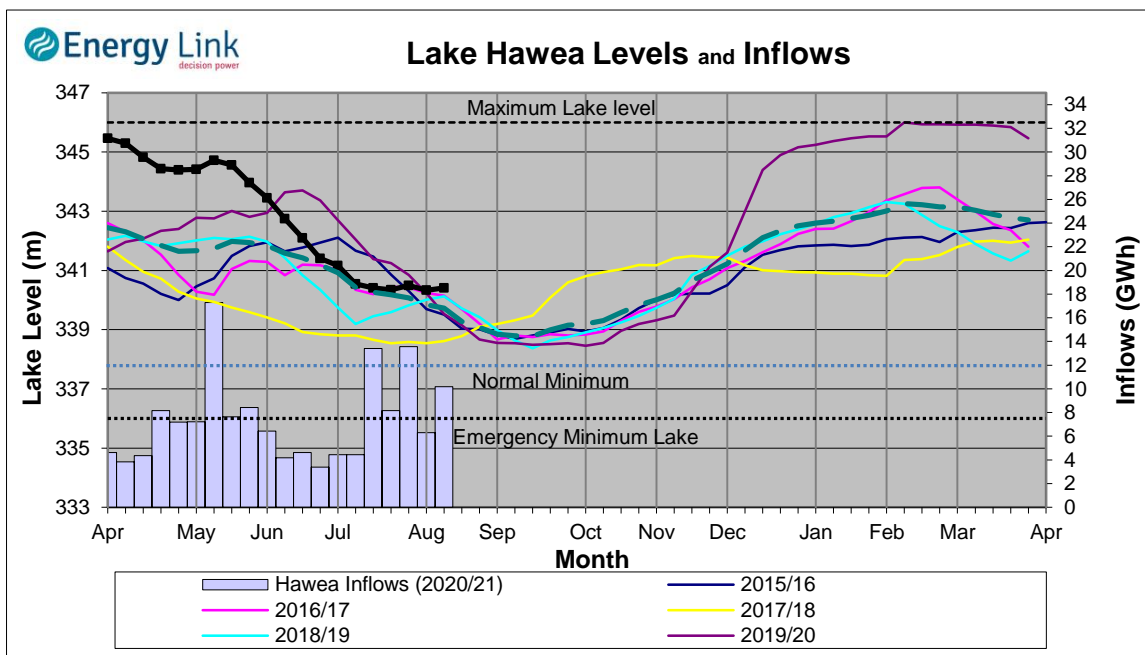
**Inflows** - Inflows into the Waitaki System decreased 80.7% to 9 GWh.

**Generation** - Average Waikati generation decreased 12.8% to 697.7 MW.

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

**River Flows** - Flows from the Ahuriri River fell to 16.8 cumecs while Waitaki River flows were lower than last week averaging 296.7 cumecs.

## Clutha System



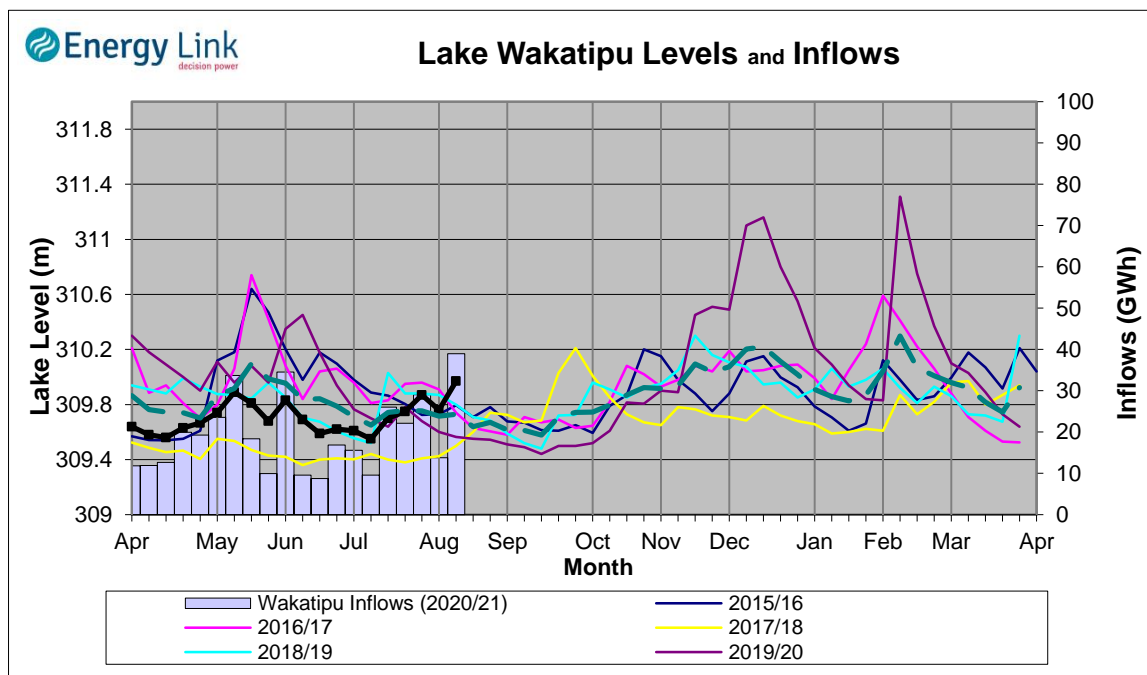
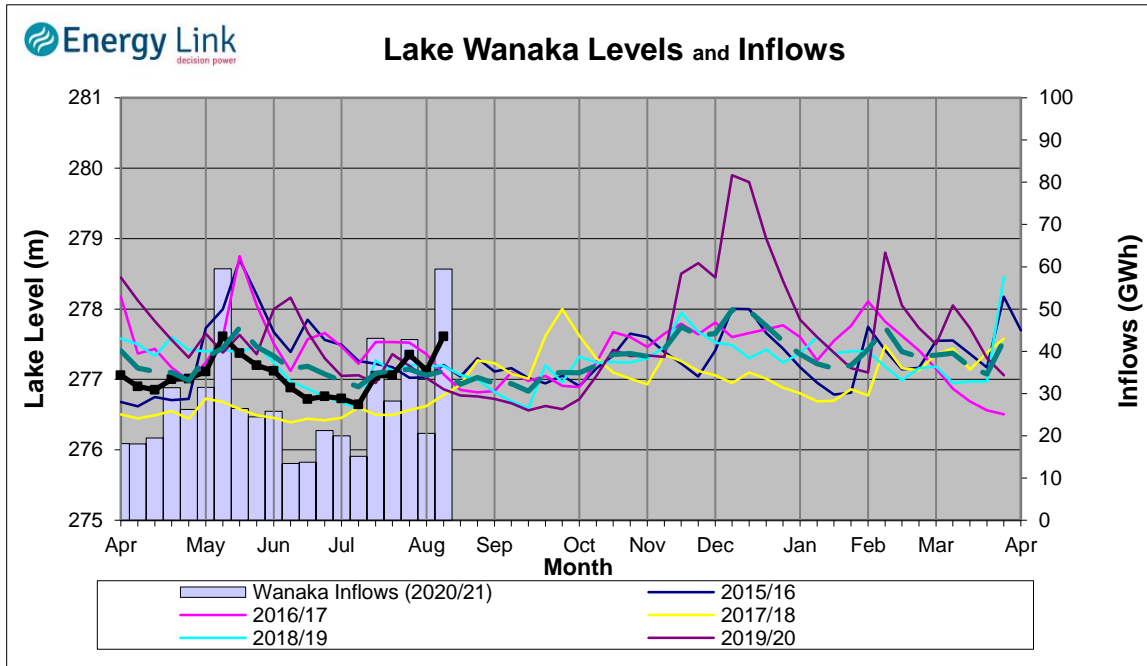
**Lake Levels** - Total storage for the Clutha System increased by 24.5% to 217 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 29.2%, 66.4% and 51.4% nominally full respectively.

**Inflows** - Total Inflows into the Clutha System 167.1% higher at 109 GWh.

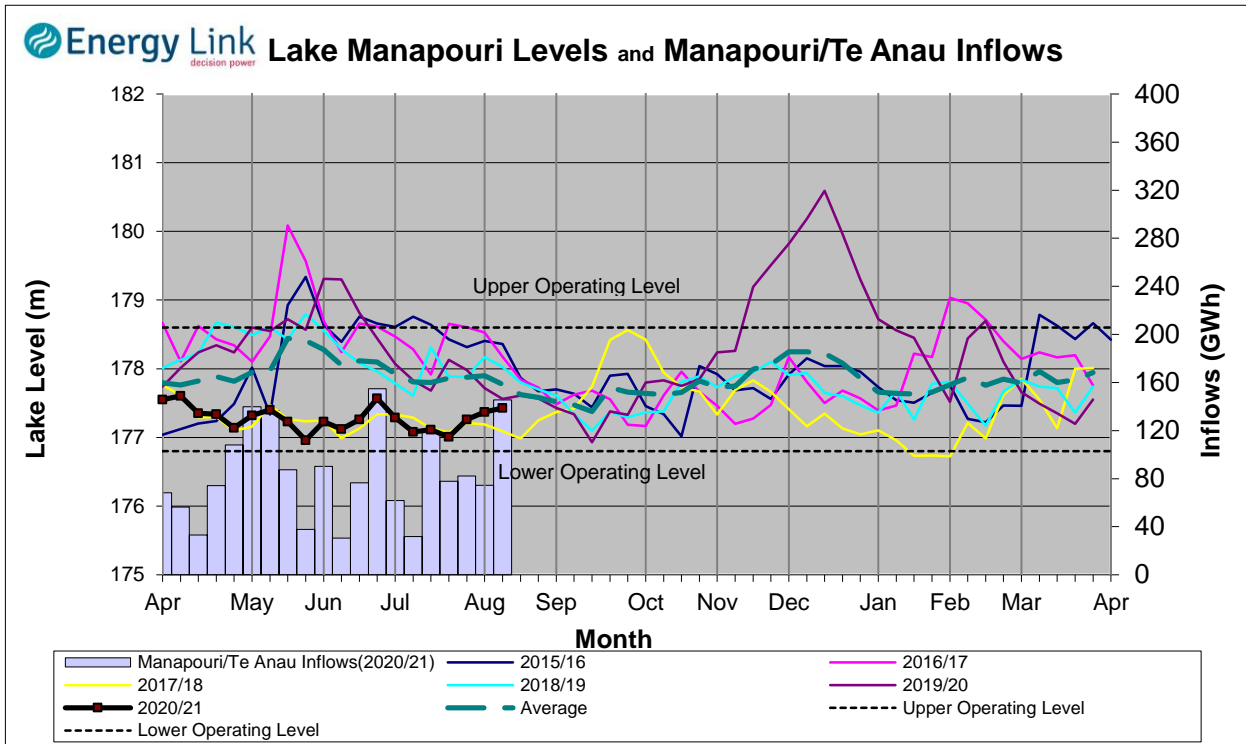
**Generation** - Average generation was 5.9% higher at 484 MW.

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

**River Flows** - Total outflows from the lakes and Shotover River increased to 491.7 cumecs. This comprised of 46 cumecs from Lake Hawea, 228 cumecs from Lake Wanaka, 148 cumecs from Lake Wakatipu and 69 cumecs from the Shotover River.



## Manapouri System



**Lake Levels** - Total storage for the Manapouri System increased by 18.2% to 295 GWh with Lake Manapouri ending the week 57% nominally full and Lake Te Anau ending the week 73.4% nominally full.

**Inflows** - Total inflows into the Manapouri System increased 95.2% to 145 GWh.

**Generation** - Average generation was 16.3% higher at 595 MW.

**Hydro Spill** - Estimated spill at the Mararoa Weir was 35.5 cumecs.

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

