



Thursday, 15 April 2021

Issue: 1252

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)	1448	241	1689	139	1827
Storage Change (GWh)	40	34	74	8	81

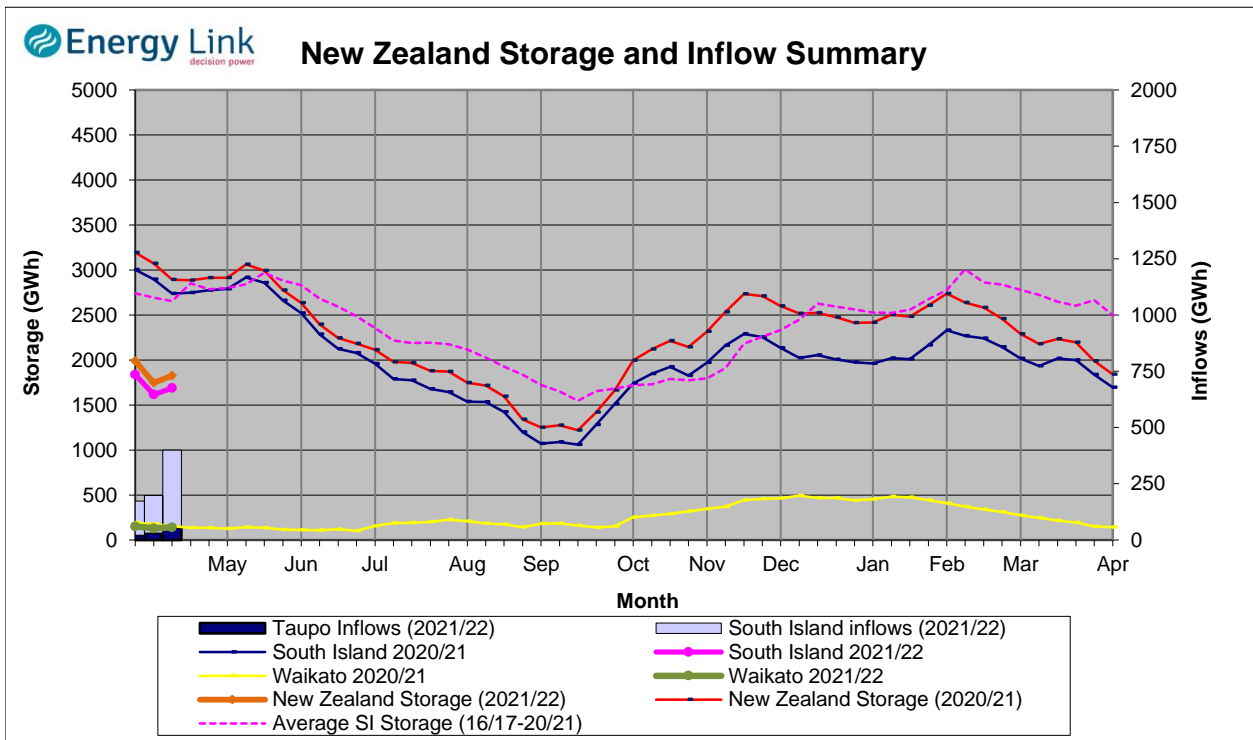
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1602	139	1741

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 81.5 GWh over the last week. South Island controlled storage increased 2.8% to 1448 GWh; South Island uncontrolled storage increased 16.4% to 241 GWh; with Taupo storage increasing 5.9% to 139 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
<b>This Week</b>	154	247	1288	139	1827
Last Week	150	217	1248	131	1746
% Change	2.8%	13.7%	3.2%	5.9%	4.7%
Inflow (GWh)					
<b>This Week</b>	58	82	206	53	399
Last Week	51	30	87	31	198
% Change	13.6%	178.7%	137.7%	70.1%	101.2%

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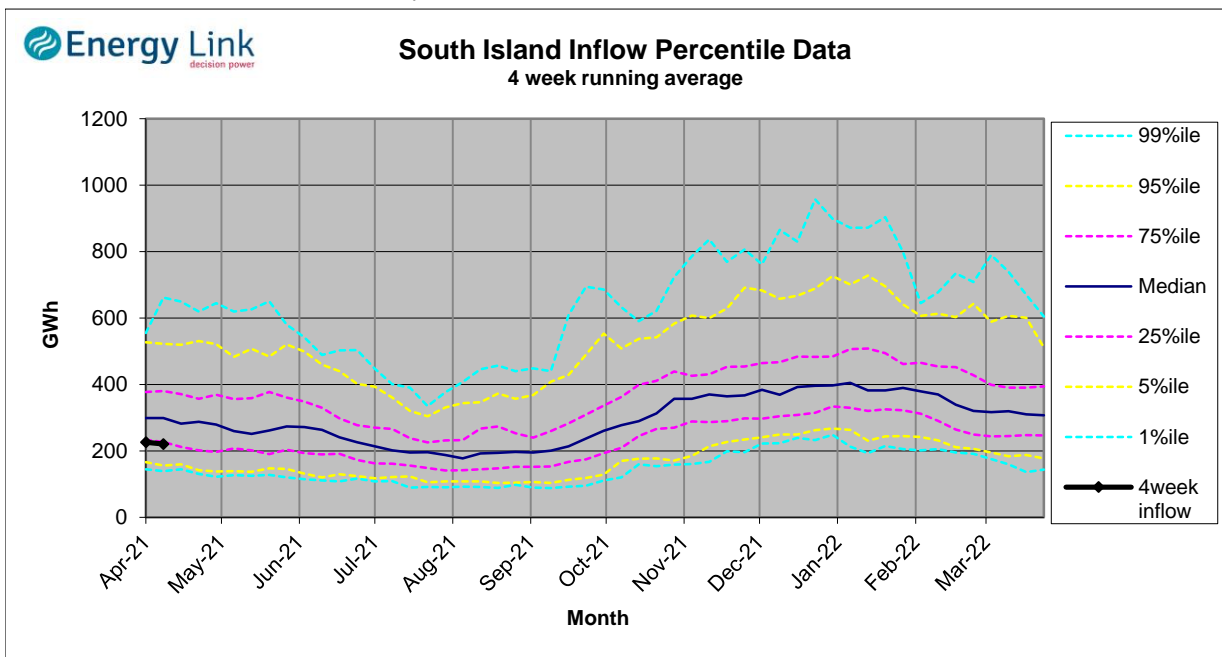
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	176.70	49	17	0
	Te Anau	201.56	105		
Clutha	Wakatipu	309.65	30	87	-3
	Wanaka	277.22	57	155	
	Hawea	342.40	160	96	
Waitaki	Tekapo	707.42	523		20
	Pukaki	524.37	764		
Waikato	Taupo	356.19	139		46

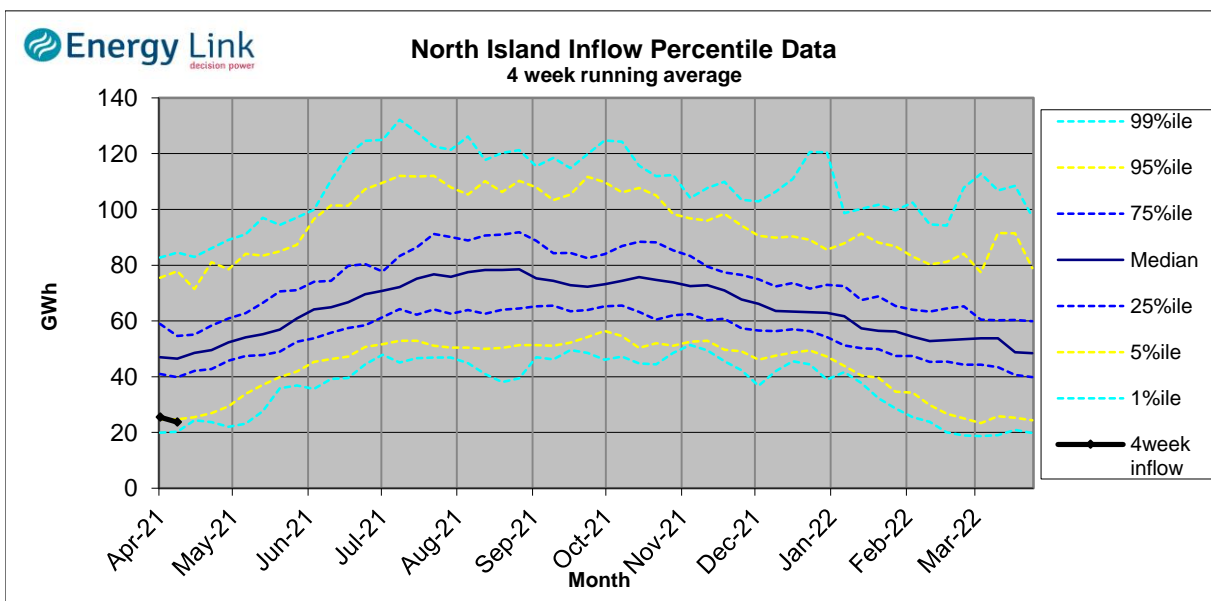
Inflow Summary

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.

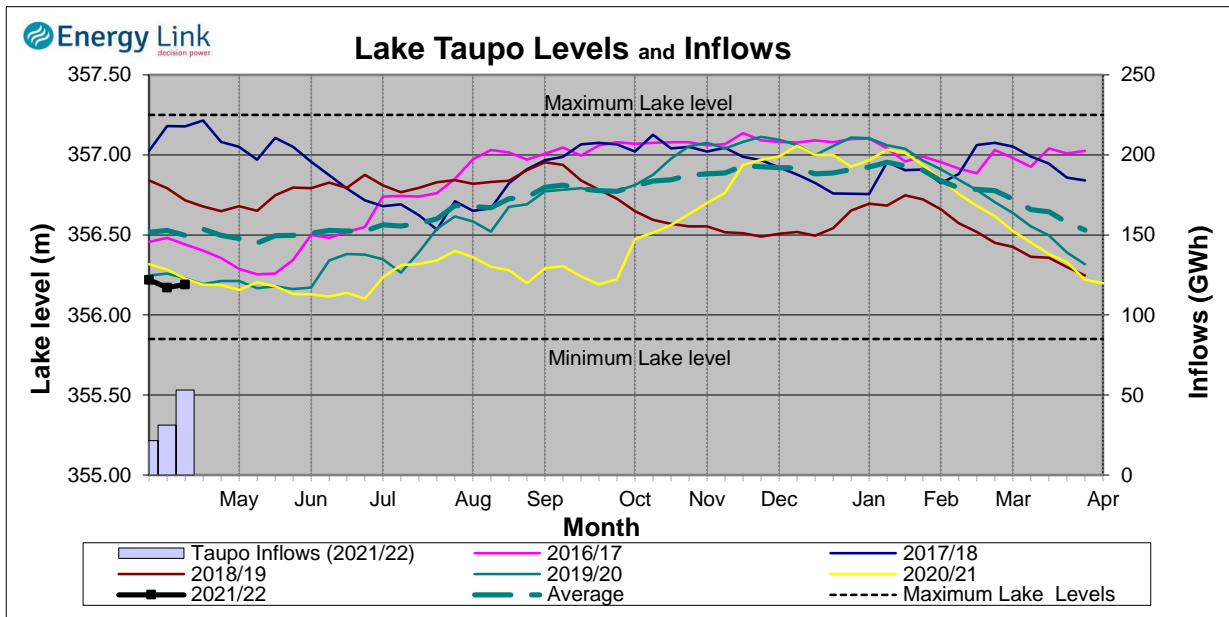
**South Island Inflows** - The past four weeks of S. I. inflows rank as the 21st driest on record.



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



## Waikato System

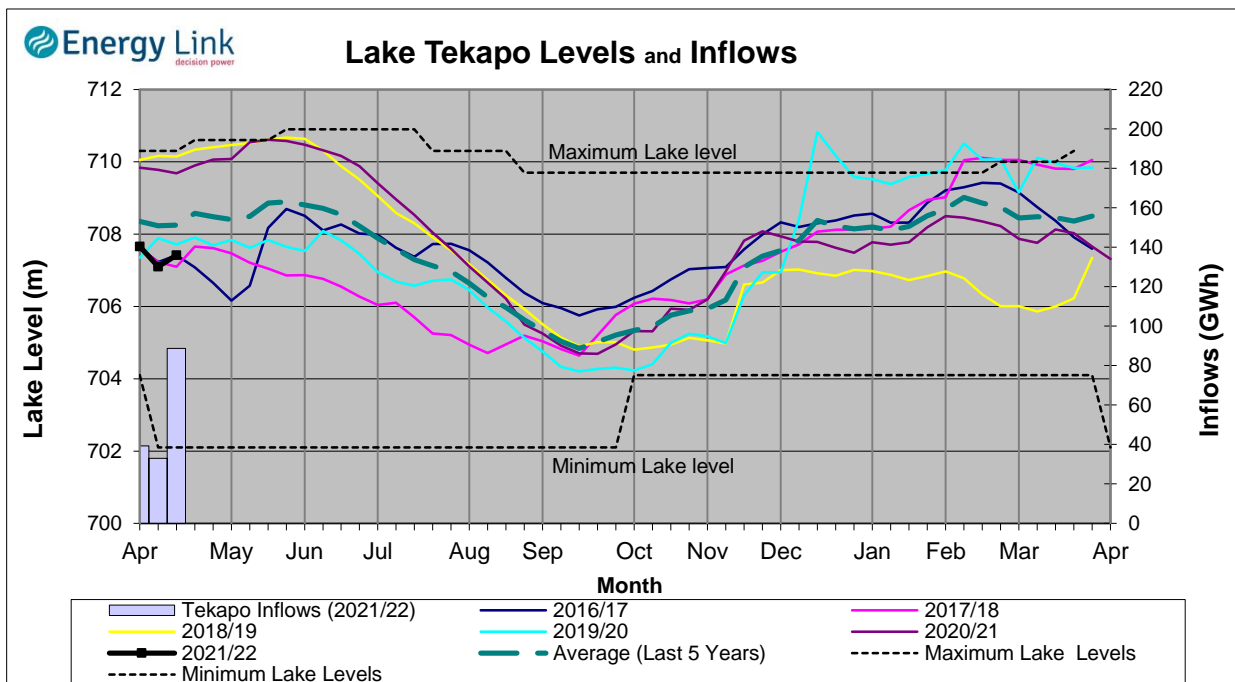


**Lake Levels** - Lake Taupo storage increased to 24.3% of nominal full at 139 GWh.

**Inflows** - Inflows increased 70.1% to 53 GWh.

**Generation** - Average generation increased 8.3% to 331.5 MW.

## Tekapo



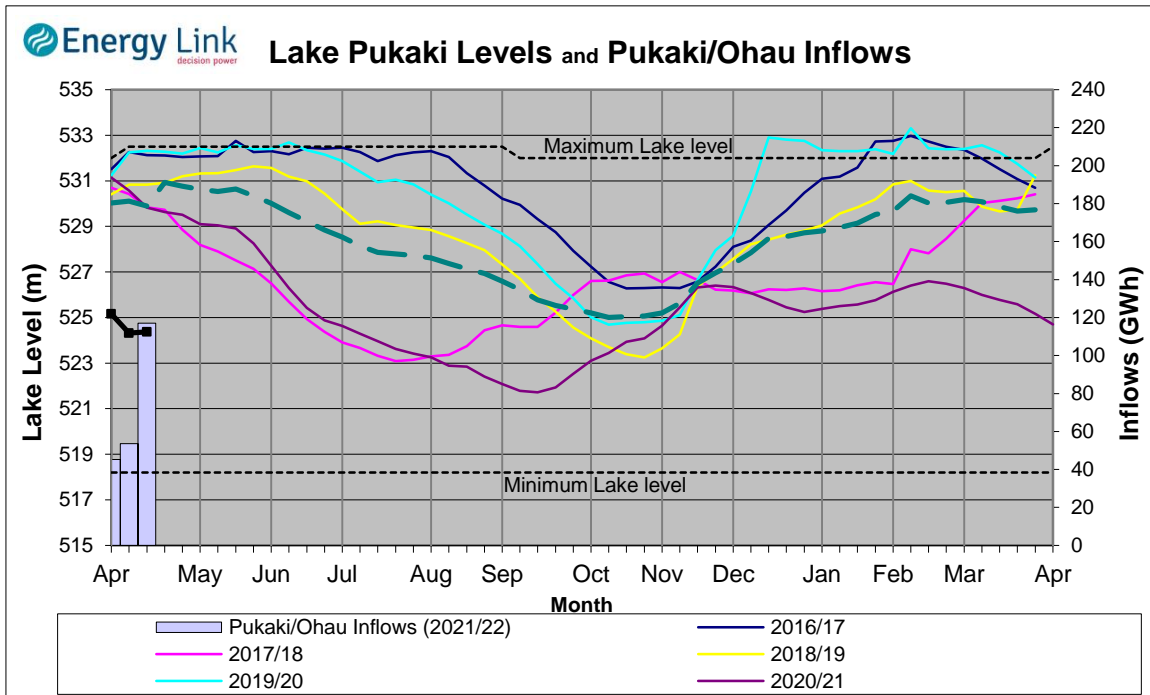
**Lake Levels** - Lake Tekapo ended the week 66% nominally full with storage increasing to 523 GWh.

**Inflows** - Inflows into tekapo increased 169.4% to 89 GWh.

**Generation** - Average Tekapo generation increased 1.5% to 116.6 MW.

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

## Waitaki System



**Lake Levels** - Lake Pukaki ended the week 41% nominally full with storage increasing to 764 GWh

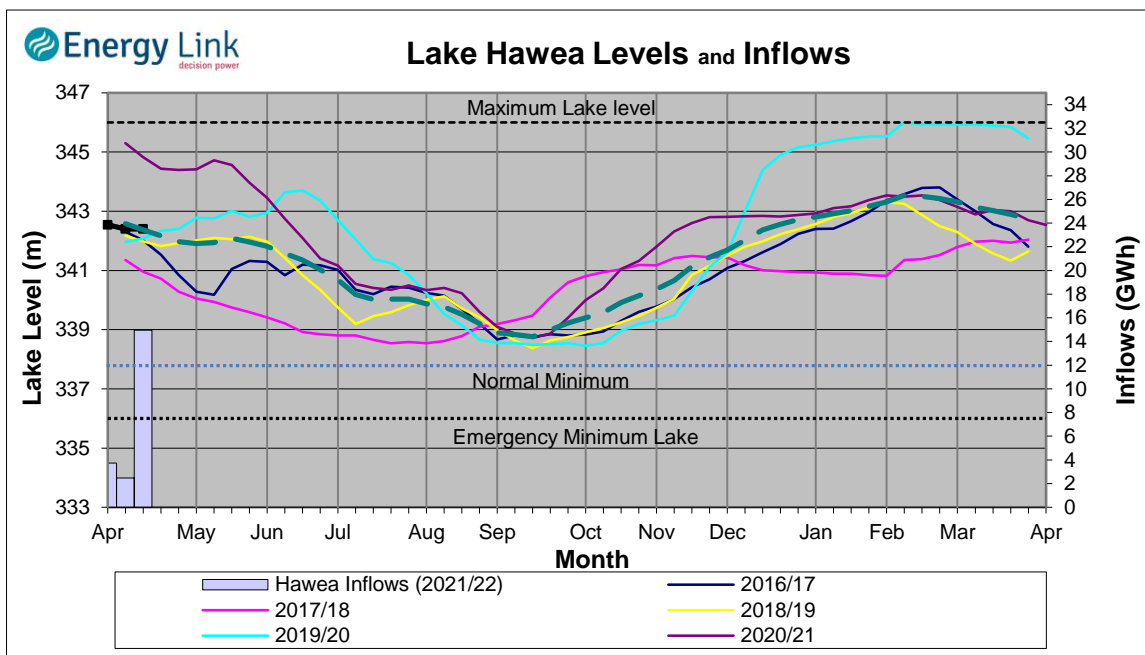
**Inflows** - Inflows into the Waitaki System increased 118.2% to 117 GWh.

**Generation** - Average Waikati generation increased 11.7% to 962 MW.

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

**River Flows** - Flows from the Ahuriri River increased to 14.6 cumecs while Waitaki River flows were higher than last week averaging 390.5 cumecs.

## Clutha System



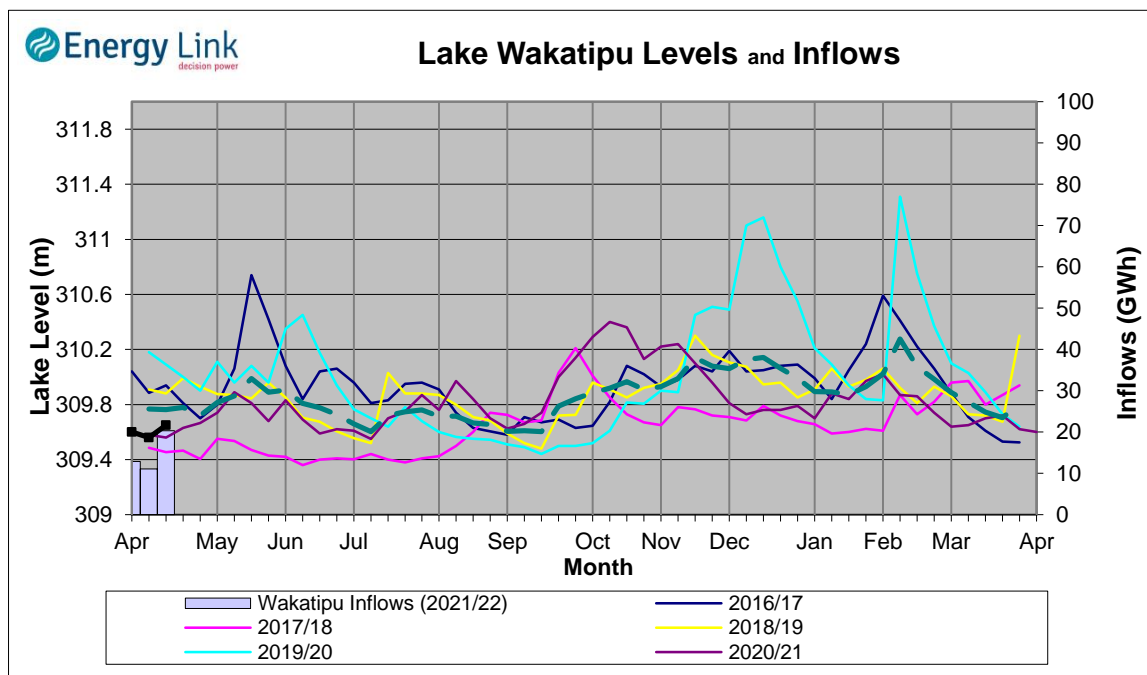
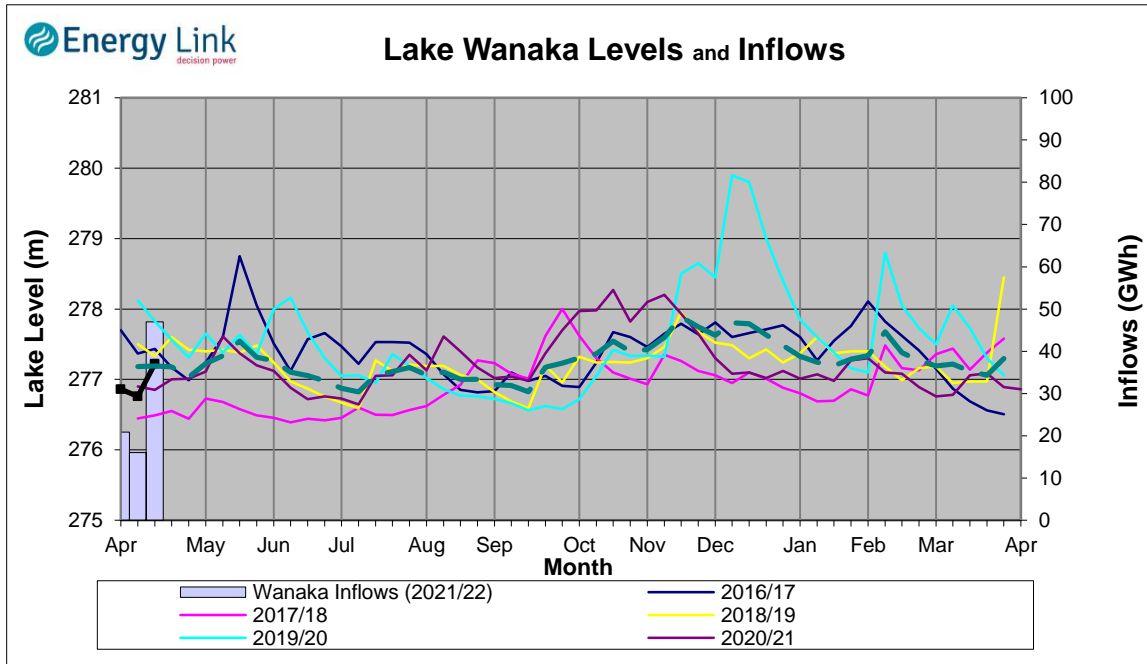
**Lake Levels** - Total storage for the Clutha System increased by 13.7% to 247 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 54.2%, 49.5% and 28.6% nominally full respectively.

**Inflows** - Total Inflows into the Clutha System 178.7% higher at 82 GWh.

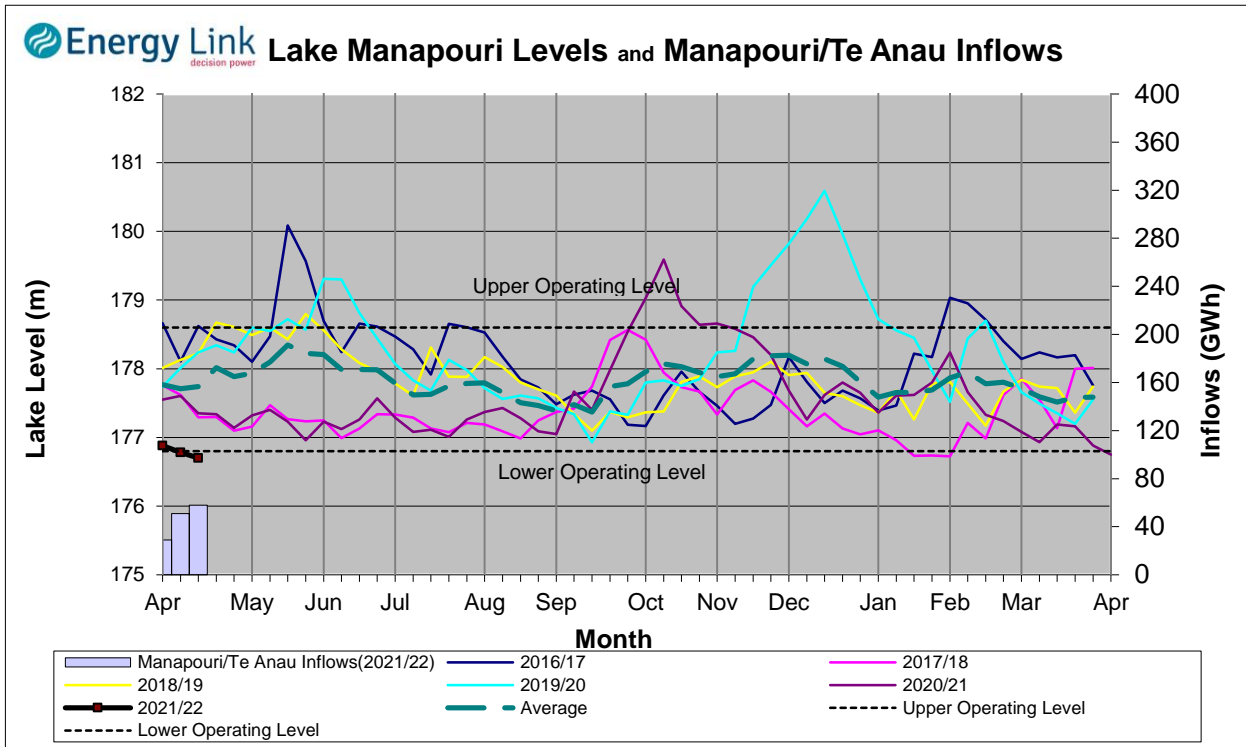
**Generation** - Average generation was 22.6% higher at 338 MW.

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

**River Flows** - Total outflows from the lakes and Shotover River increased to 369.8 cumecs. This comprised of 96 cumecs from Lake Hawea, 155 cumecs from Lake Wanaka, 87 cumecs from Lake Wakatipu and 33 cumecs from the Shotover River.



### Manapouri System



**Lake Levels** - Total storage for the Manapouri System increased by 2.8% to 154 GWh with Lake Manapouri ending the week 30.4% nominally full and Lake Te Anau ending the week 38% nominally full.

**Inflows** - Total inflows into the Manapouri System increased 13.6% to 58 GWh.

**Generation** - Average generation was 9% higher at 319 MW.

**Hydro Spill** - Estimated spill at the Mararoa Weir was 17 cumecs.

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

