



Thursday, 29 April 2021

Issue: 1254

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)	1372	351	1723	101	1824
Storage Change (GWh)	-52	59	7	-24	-16

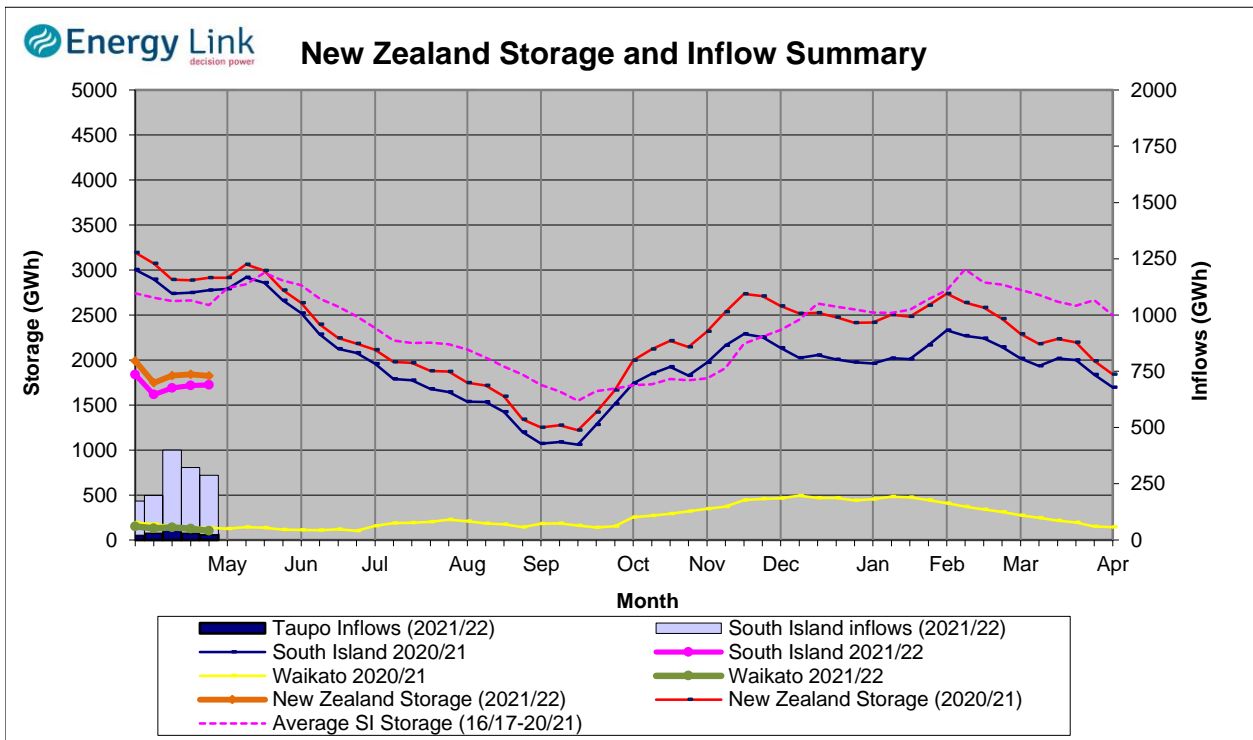
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1638	101	1738

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 16.4 GWh over the last week. South Island controlled storage decreased 3.6% to 1372 GWh; South Island uncontrolled storage increased 20.3% to 351 GWh; with Taupo storage decreasing 19% to 101 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
<b>This Week</b>	266	248	1208	101	1824
Last Week	204	248	1264	124	1840
% Change	30.3%	0.4%	-4.4%	-19.0%	-0.9%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
<b>This Week</b>	133	52	79	25	288
Last Week	105	58	128	32	323
% Change	26.8%	-11.6%	-38.5%	-22.5%	-10.9%

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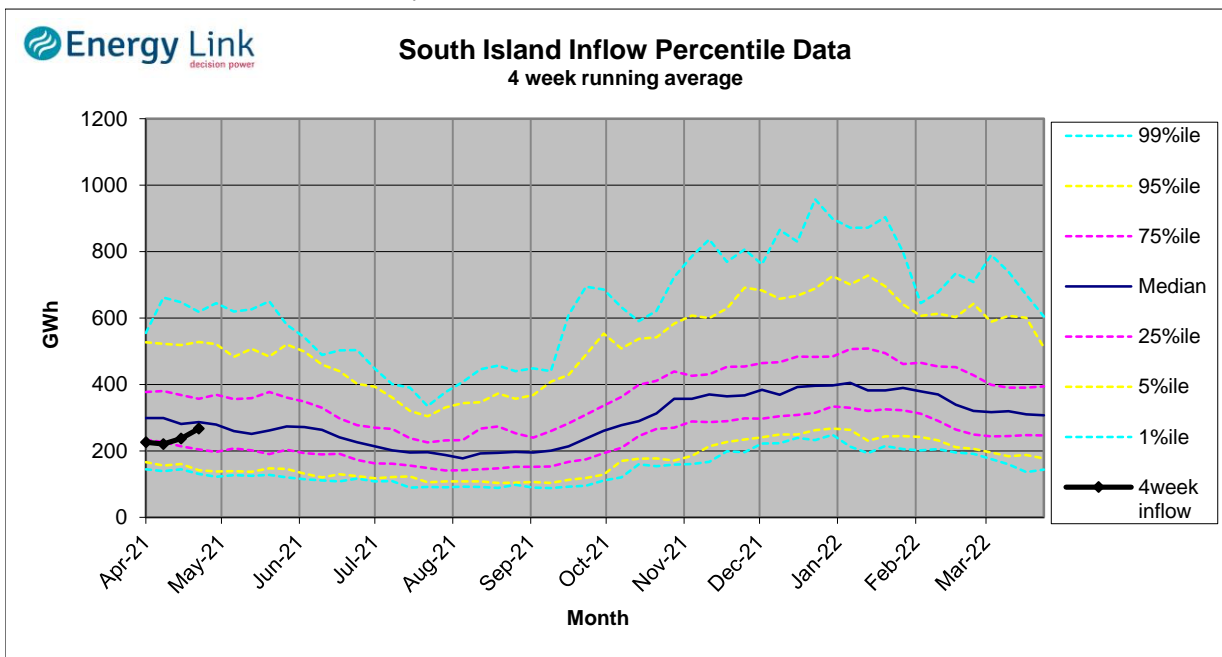
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.35	88	18	3
	Te Anau	202.05	178		
Clutha	Wakatipu	309.68	32	106	-1
	Wanaka	277.14	53	194	
	Hawea	342.49	163	24	
Waitaki	Tekapo	707.26	507		
	Pukaki	523.88	702		
Waikato	Taupo	356.10	101		

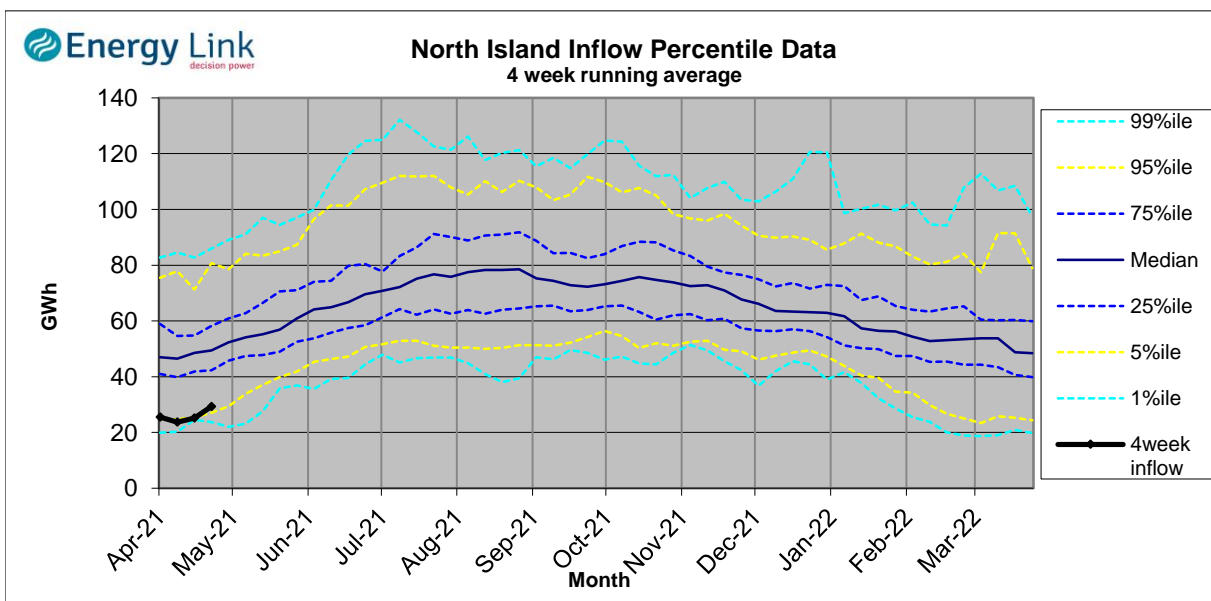
Inflow Summary

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.

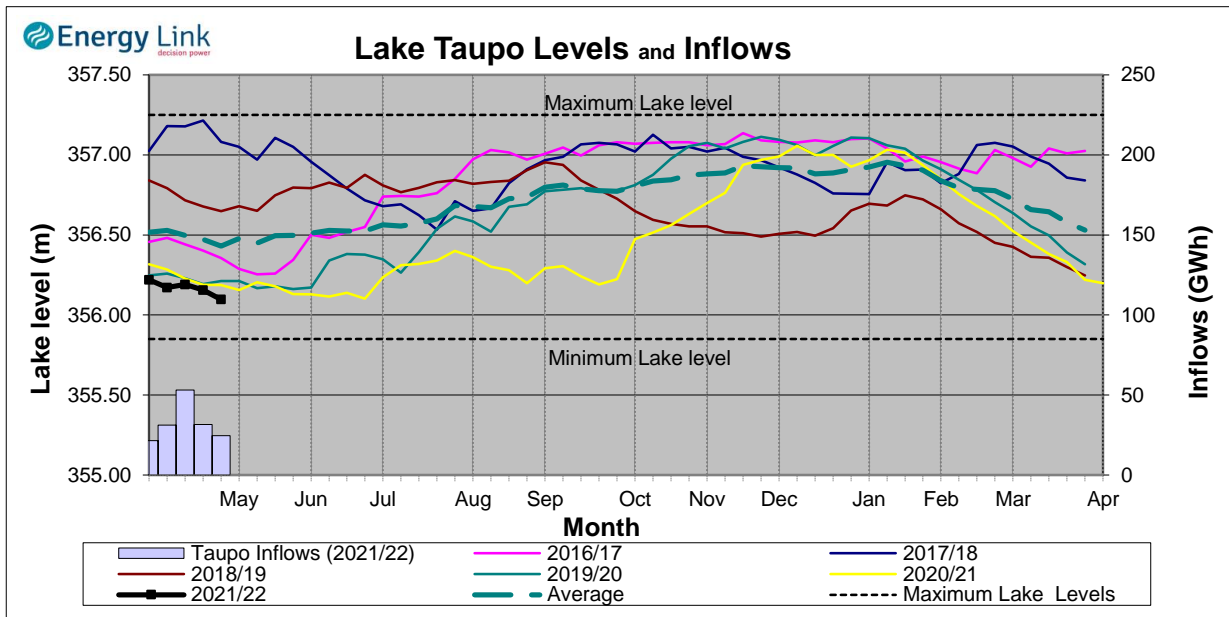
**South Island Inflows** - The past four weeks of S. I. inflows rank as the 41st driest on record.



**North Island Inflows** - The past four weeks of N. I. inflows rank as the 11th driest on record.



# Waikato System

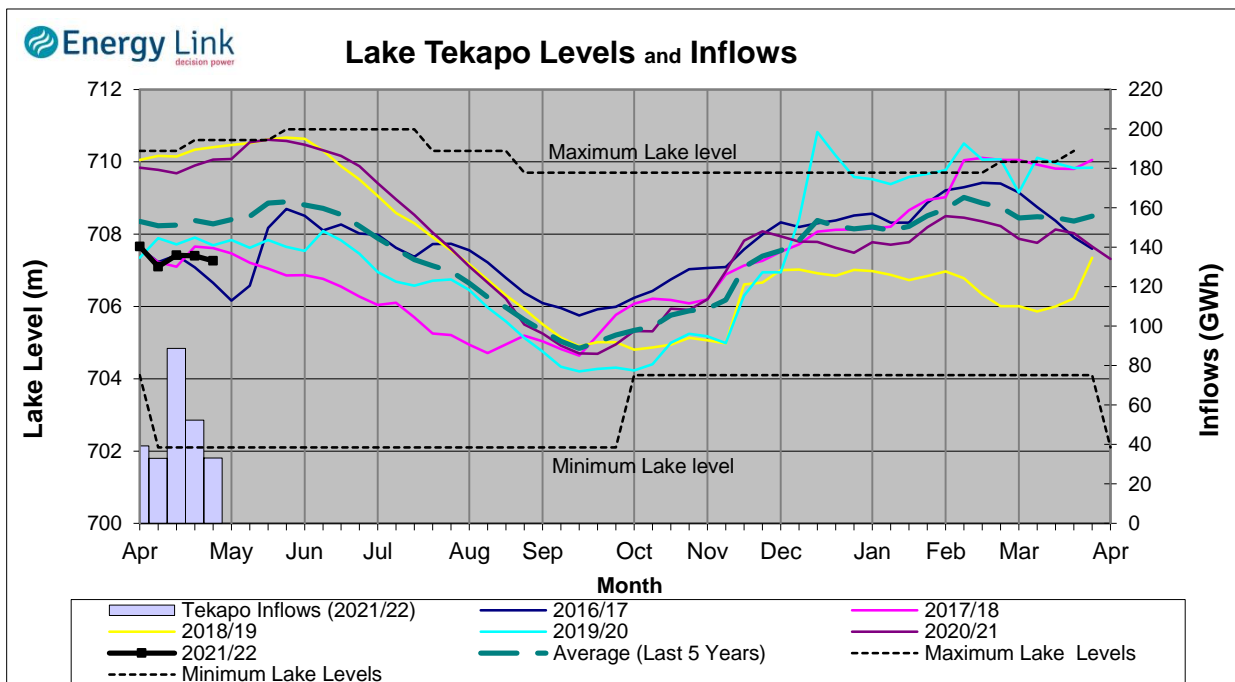


**Lake Levels** - Lake Taupo storage fell to 17.6% of nominal full at 101 GWh.

**Inflows** - Inflows decreased 22.5% to 25 GWh.

**Generation** - Average generation increased 6.5% to 334.2 MW.

# Tekapo



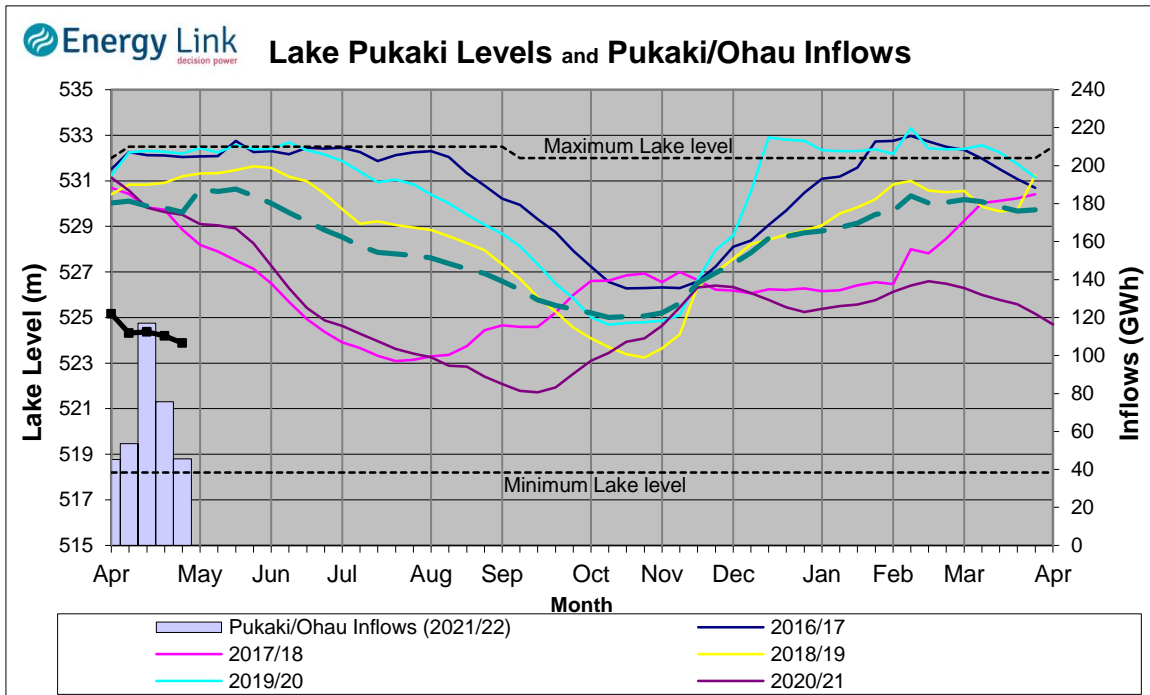
**Lake Levels** - Lake Tekapo ended the week 64% nominally full with storage falling to 507 GWh.

**Inflows** - Inflows into tekapo decreased 36.8% to 33 GWh.

**Generation** - Average Tekapo generation decreased 12.8% to 100.5 MW.

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

## Waitaki System



**Lake Levels** - Lake Pukaki ended the week 38% nominally full with storage falling to 702 GWh.

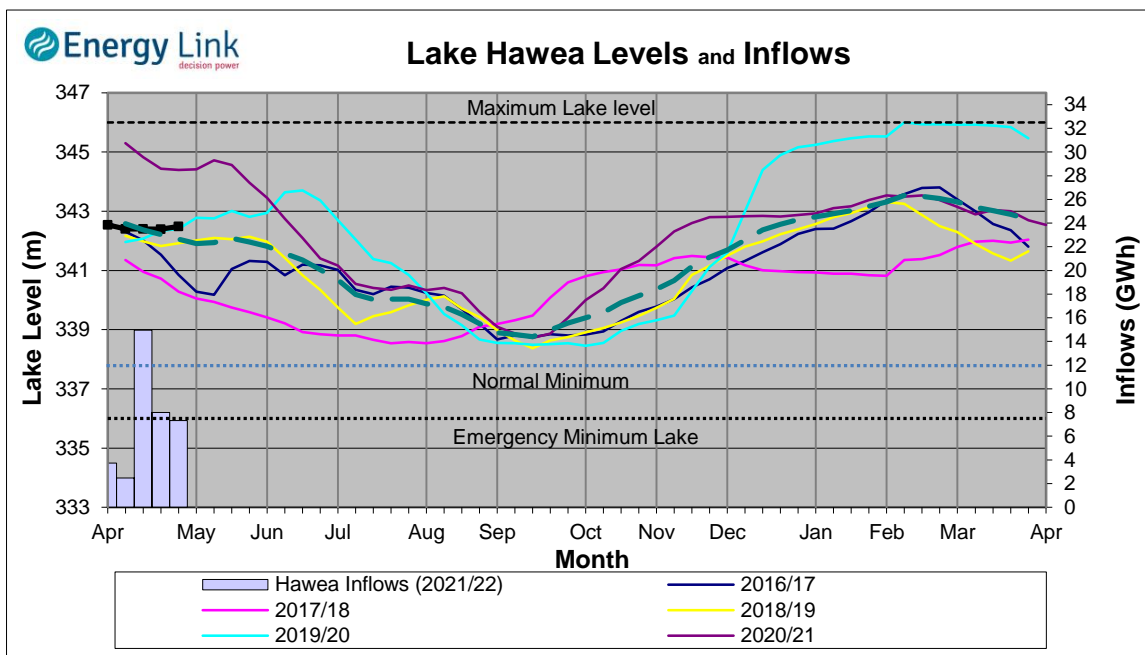
**Inflows** - Inflows into the Waitaki System decreased 39.7% to 46 GWh.

**Generation** - Average Waikati generation decreased 11.4% to 748 MW.

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

**River Flows** - Flows from the Ahuriri River fell to 15.6 cumecs while Waitaki River flows were lower than last week averaging 289.7 cumecs.

## Clutha System



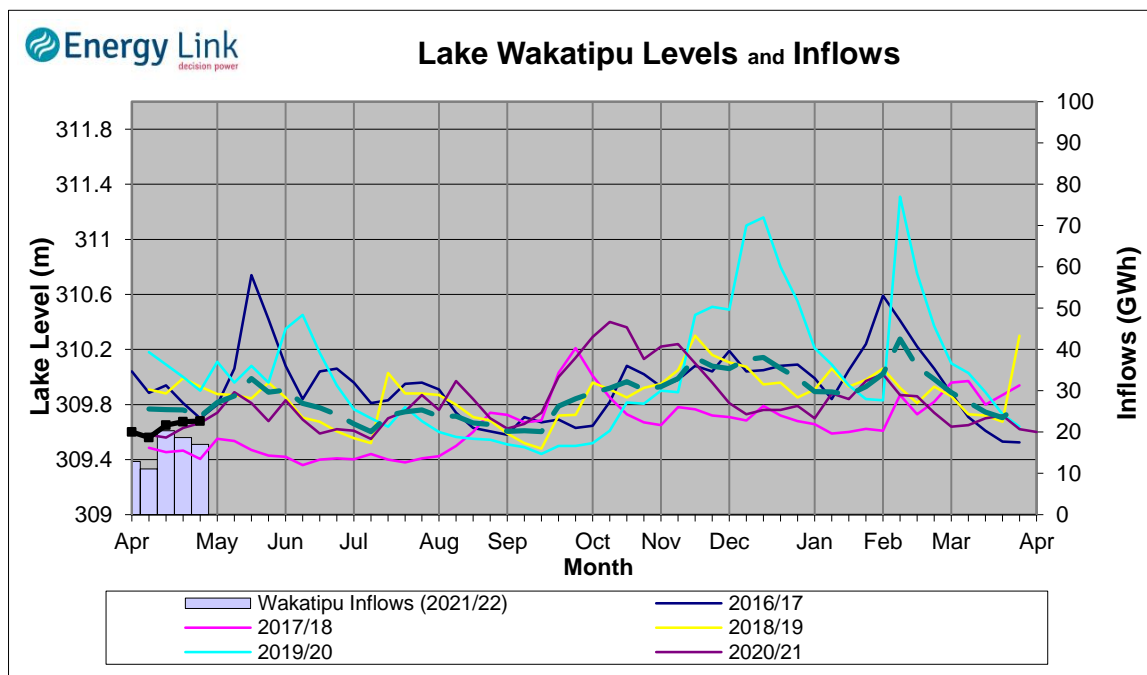
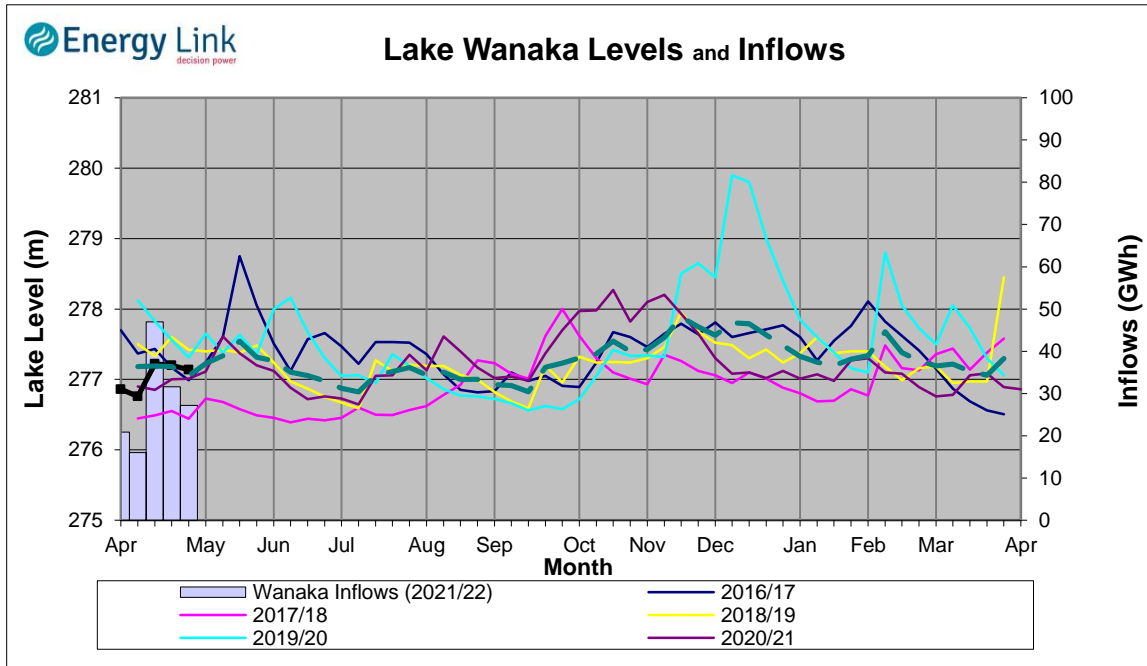
**Lake Levels** - Total storage for the Clutha System remained steady at 248 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 55.3%, 46% and 30.7% nominally full respectively.

**Inflows** - Total Inflows into the Clutha System 11.6% lower at 52 GWh.

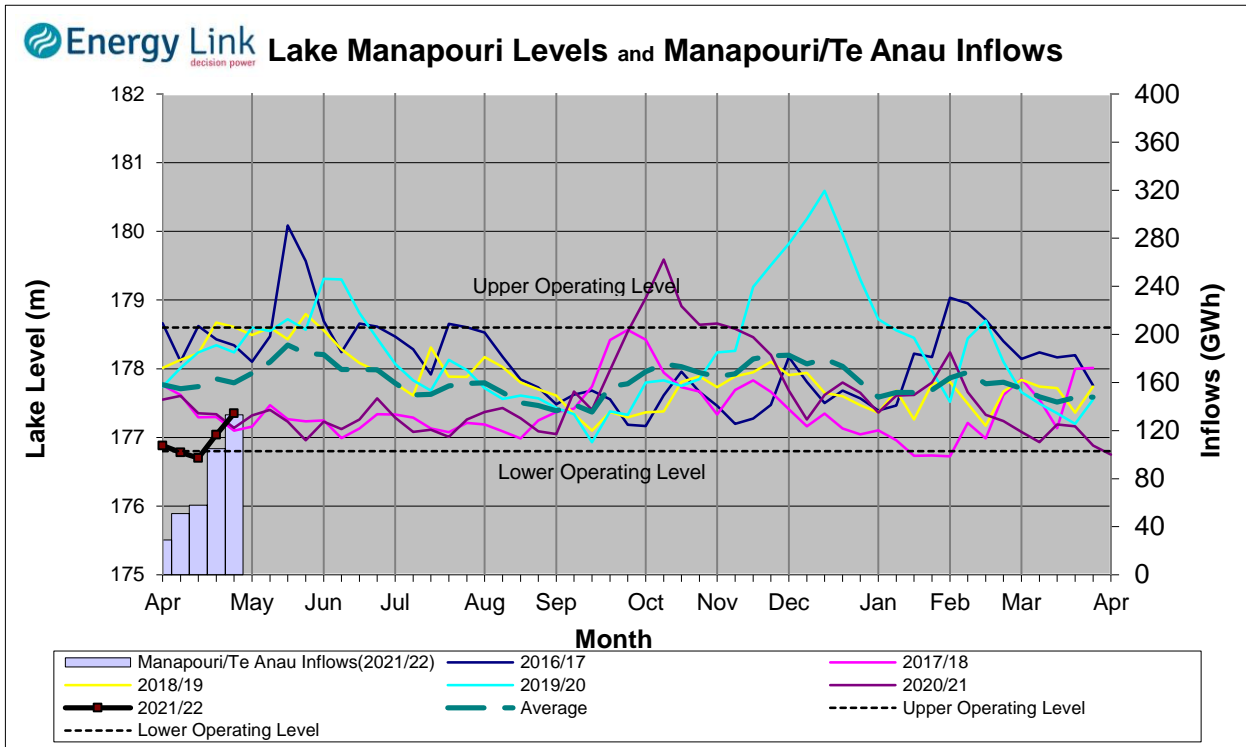
**Generation** - Average generation was 13.7% lower at 333 MW.

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

**River Flows** - Total outflows from the lakes and Shotover River fell to 351.9 cumecs. This comprised of 24 cumecs from Lake Hawea, 194 cumecs from Lake Wanaka, 106 cumecs from Lake Wakatipu and 28 cumecs from the Shotover River.



### Manapouri System



**Lake Levels** - Total storage for the Manapouri System increased by 30.3% to 266 GWh with Lake Manapouri ending the week 54.1% nominally full and Lake Te Anau ending the week 64.7% nominally full.

**Inflows** - Total inflows into the Manapouri System increased 26.8% to 133 GWh.

**Generation** - Average generation was 29.9% higher at 424 MW.

**Hydro Spill** - Estimated spill at the Mararoa Weir was 18.4 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'.

