



Thursday, 05 May 2022

Issue: 1307

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)	1742	312	2054	215	2269
Storage Change (GWh)	-122	11	-110	-33	-143

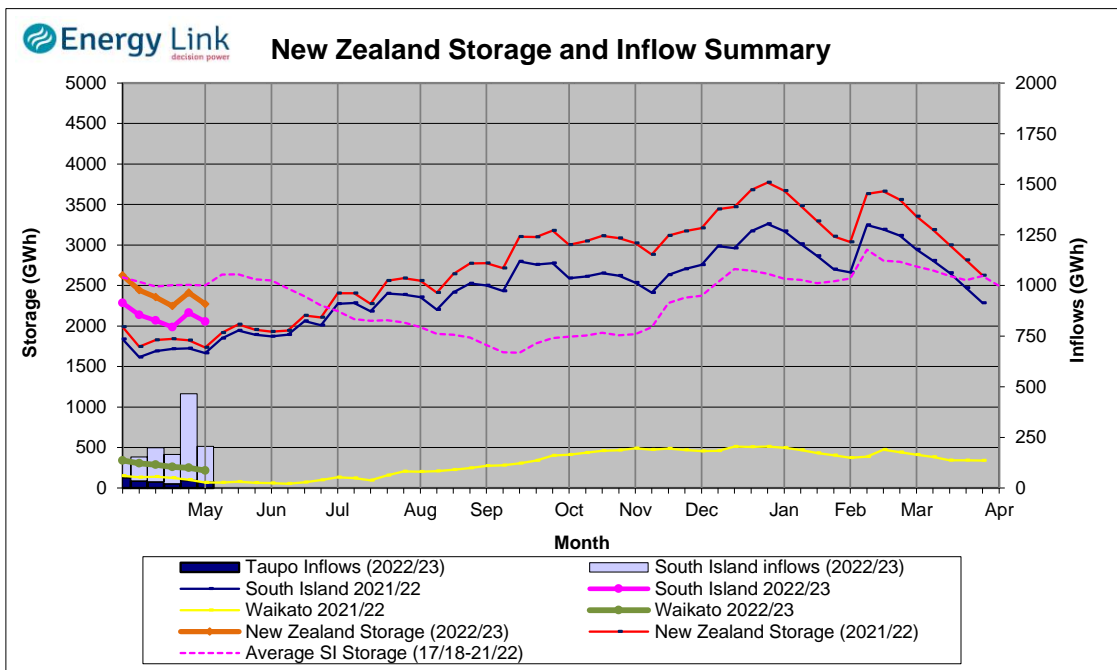
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1990	215	2205

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 143.5 GWh over the last week. South Island controlled storage decreased 6.5% to 1742 GWh; South Island uncontrolled storage increased 3.7% to 312 GWh; with Taupo storage decreasing 13.3% to 215 GWh.



Thursday, 05 May 2022					
Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	248	223	1583	215	2269
Last Week	236	229	1699	248	2413
% Change	5.0%	-2.7%	-6.8%	-13.3%	-5.9%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	78	38	61	29	206
Last Week	119	82	228	37	466
% Change	-34.1%	-53.2%	-73.4%	-22.8%	-55.8%

Subscribe at www.energylink.co.nz/publications

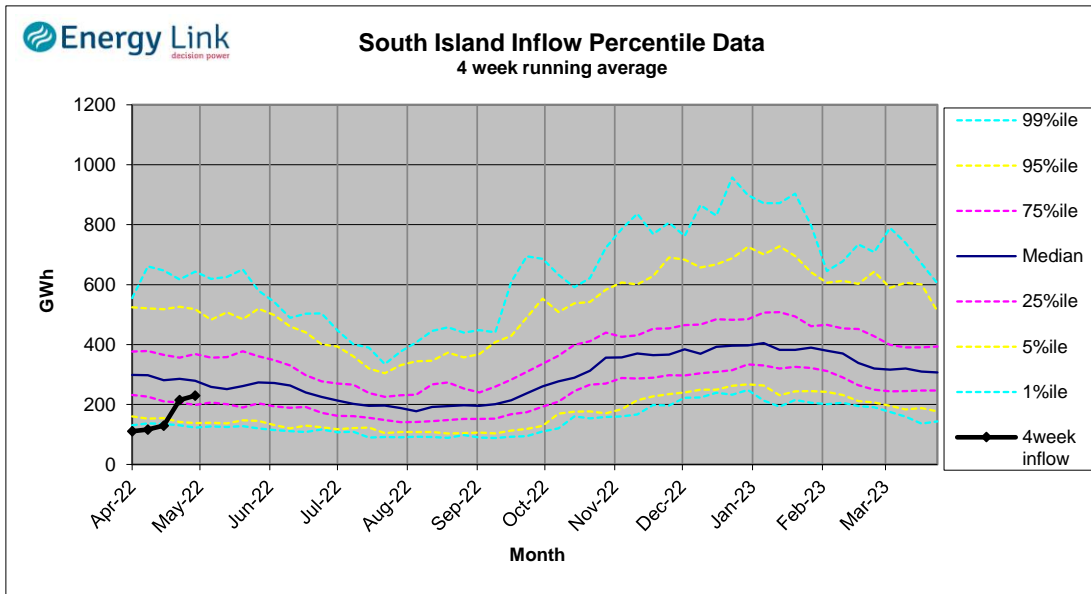
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.20	79	16	-9
	Te Anau	201.99	169		
Clutha	Wakatipu	309.61	27	89	-3
	Wanaka	276.83	37	137	-8
	Hawea	342.37	159	58	8
Waitaki	Tekapo	707.04	484		
	Pukaki	526.95	1099		
Waikato	Taupo	356.38	215		

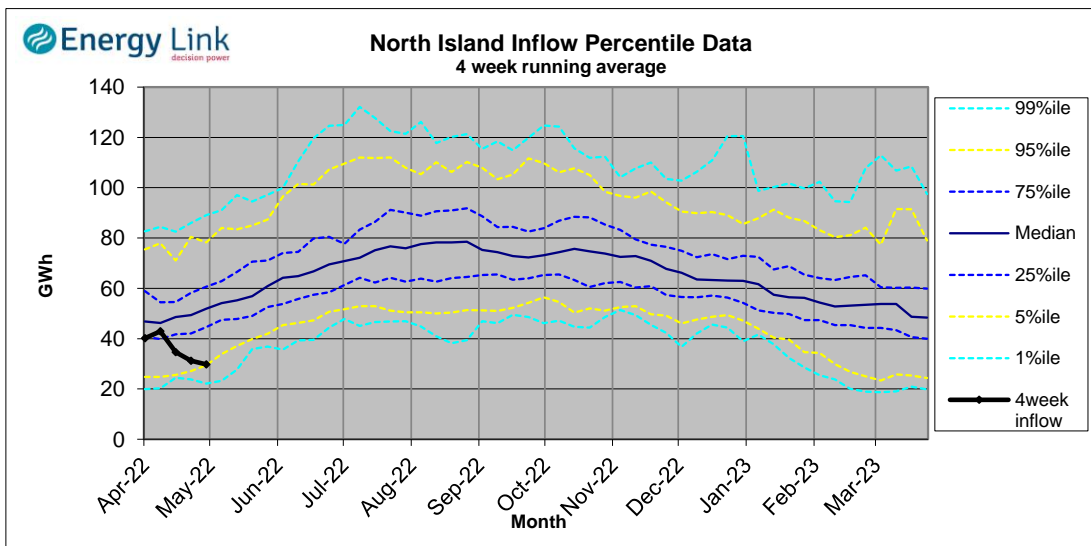
Inflow Summary

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.

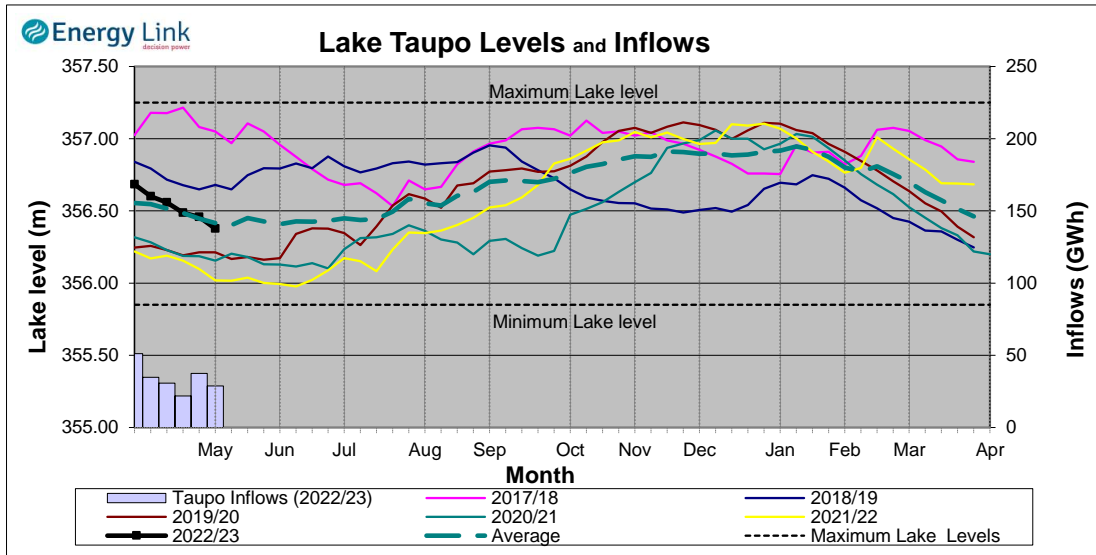
South Island Inflows - The past four weeks of S. I. inflows rank as the 31st driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 8th driest on record.



Waikato System

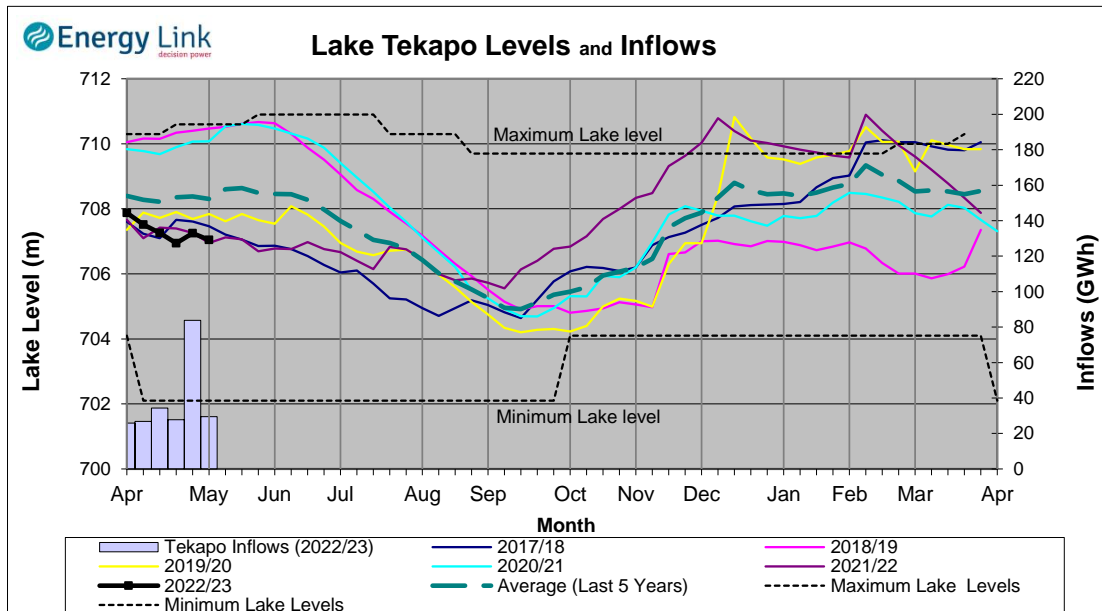


Lake Levels - Lake Taupo storage fell to 37.6% of nominal full at 215 GWh.

Inflows - Inflows decreased 22.8% to 29 GWh.

Generation - Average generation increased 13.8% to 394.7 MW.

Tekapo



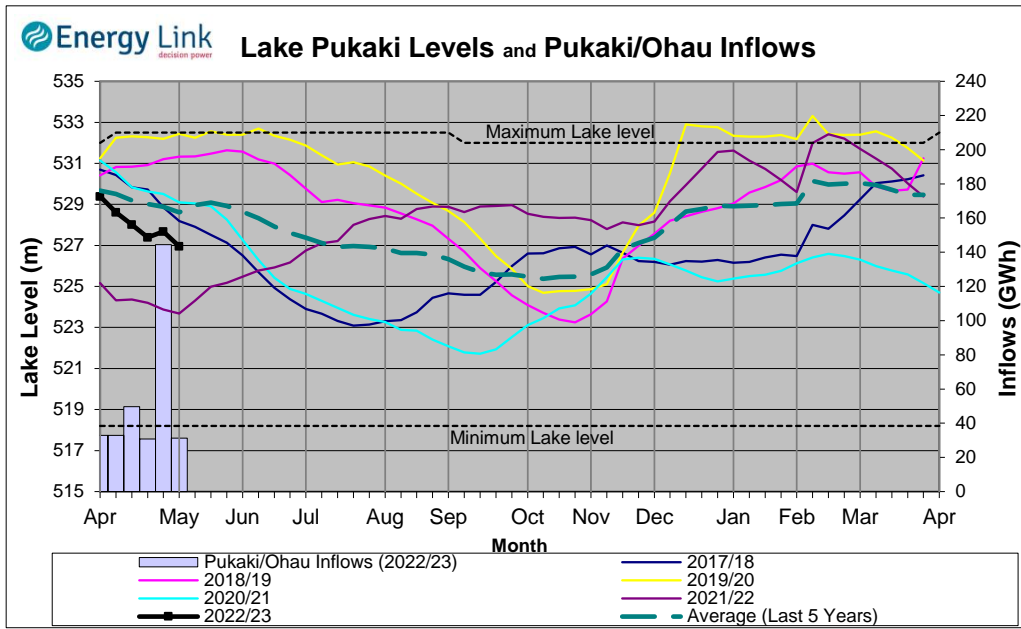
Lake Levels - Lake Tekapo ended the week 61% nominally full with storage falling to 484 GWh.

Inflows - Inflows into tekapo decreased 64.9% to 29 GWh.

Generation - Average Tekapo generation decreased 1.8% to 107.9 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 59% nominally full with storage falling to 1099 GWh.

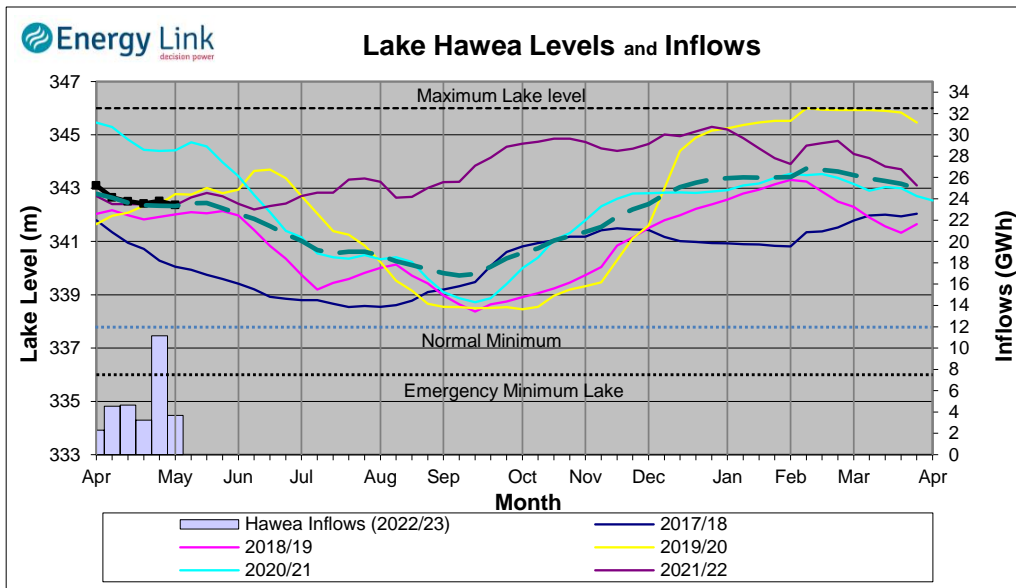
Inflows - Inflows into the Waitaki System decreased 78.4% to 31 GWh.

Generation - Average Waikati generation increased 9.3% to 1037.2 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 13.6 cumecs while Waitaki River flows were lower than last week averaging 401.7 cumecs.

Clutha System



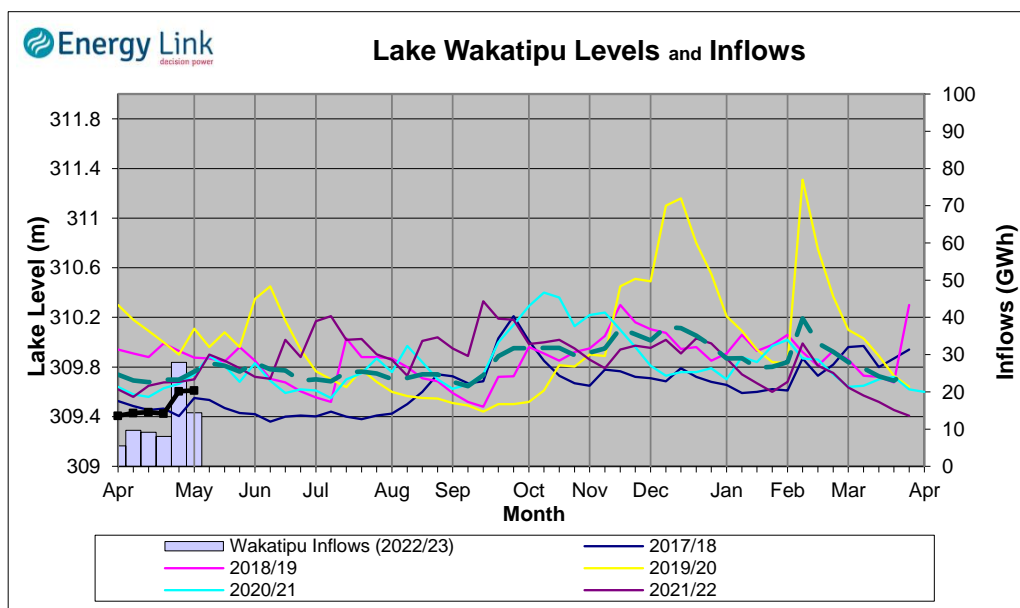
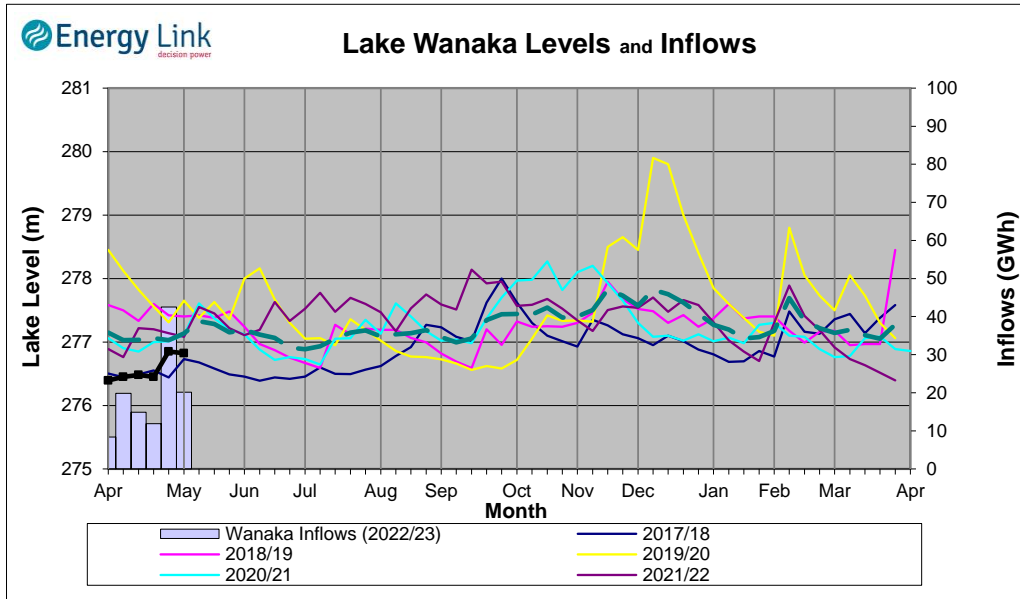
Lake Levels - Total storage for the Clutha System decreased 2.7% to 223 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 53.8%, 32.3% and 25.9% nominally full respectively.

Inflows - Total Inflows into the Clutha System 53.2% lower at 38 GWh.

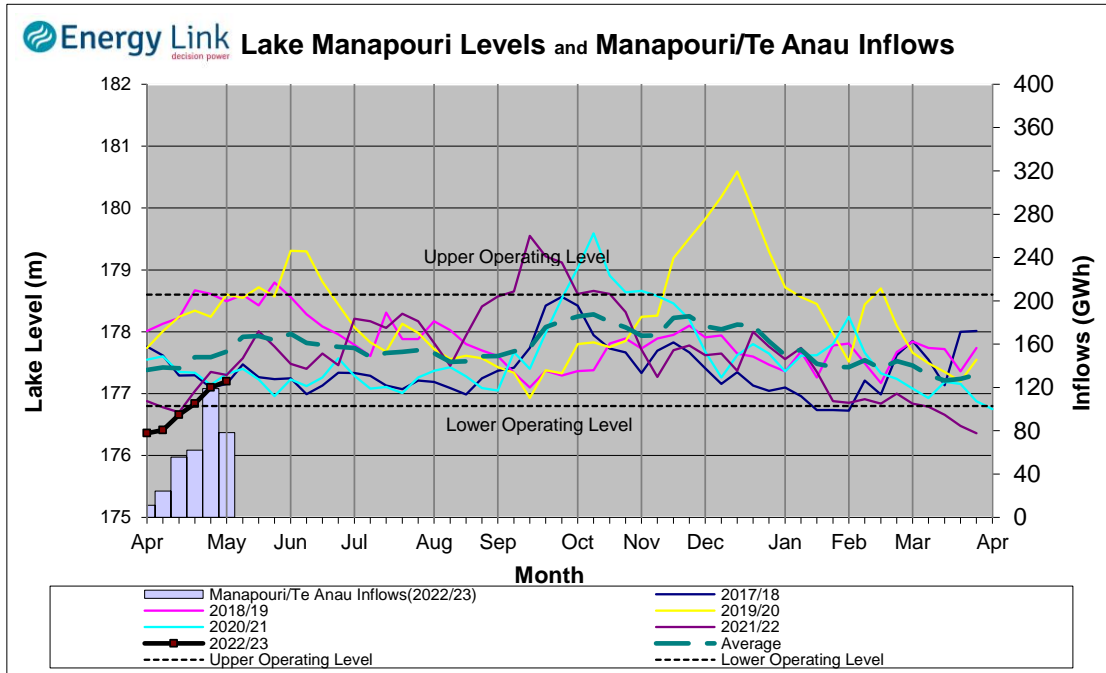
Generation - Average generation was 0.3% higher at 300 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 302.5 cumecs. This comprised of 58 cumecs from Lake Hawea, 137 cumecs from Lake Wanaka, 89 cumecs from Lake Wakatipu and 18 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 5% to 248 GWh with Lake Manapouri ending the week 48.6% nominally full and Lake Te Anau ending the week 61.4% nominally full.

Inflows - Total inflows into the Manapouri System decreased 34.1% to 78 GWh.

Generation - Average generation was 42.4% higher at 395 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 16.2 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'.

