



Thursday, 14 April 2022

Issue: 1304

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)	1910	156	2066	289	2355
Storage Change (GWh)	-111	42	-69	-17	-86

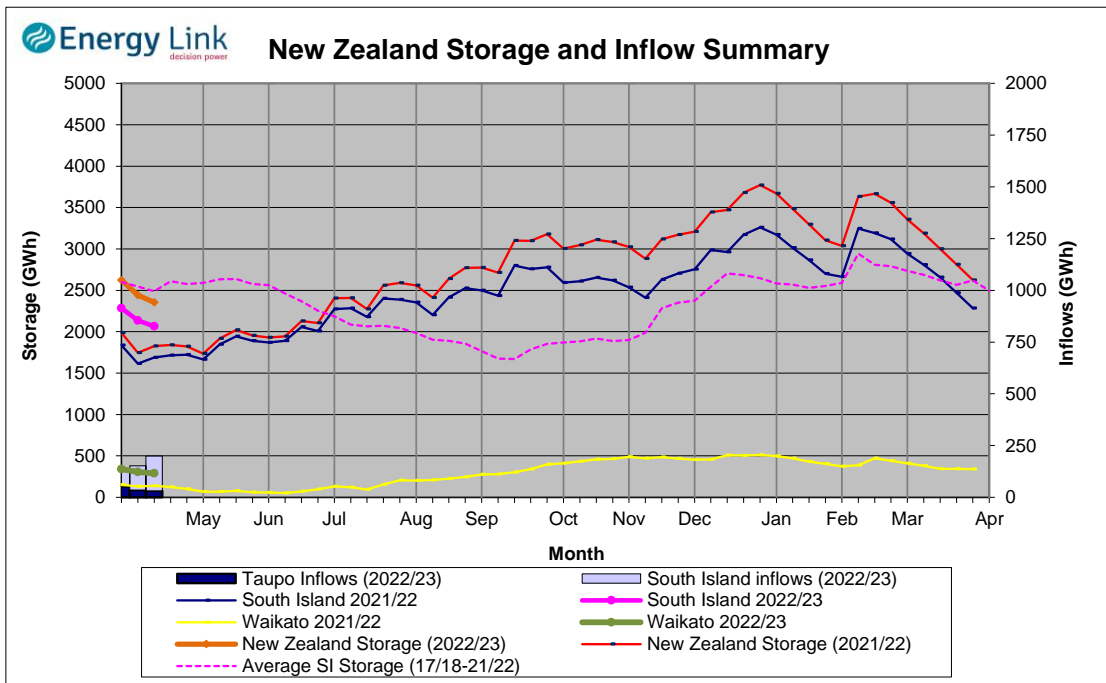
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2032	289	2321

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 86 GWh over the last week. South Island controlled storage decreased 5.5% to 1910 GWh; South Island uncontrolled storage increased 37% to 156 GWh; with Taupo storage decreasing 5.6% to 289 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	122	198	1747	289	2355
Last Week	82	201	1852	306	2441
% Change	49.2%	-1.8%	-5.7%	-5.6%	-3.5%
Inflow (GWh)					
This Week	56	29	84	31	199
Last Week	24	34	60	35	153
% Change	128.7%	-15.8%	40.6%	-11.4%	30.3%

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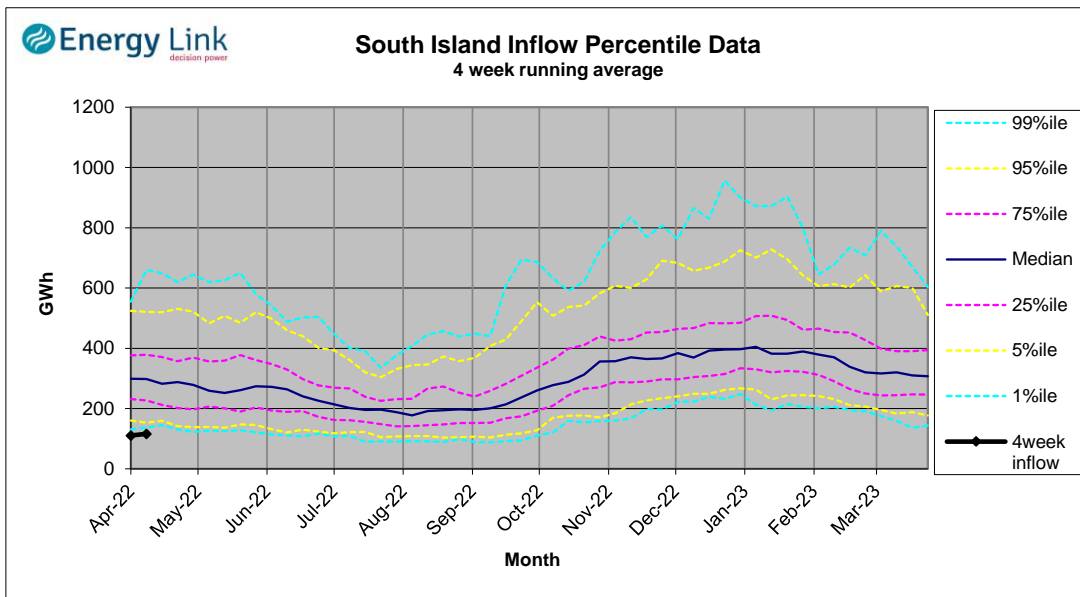
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	176.66	47	16	
	Te Anau	201.36	75		
Clutha	Wakatipu	309.44	14	56	5
	Wanaka	276.48	20	86	-24
	Hawea	342.50	164	65	-72
Waitaki	Tekapo	707.26	506		
	Pukaki	528.02	1240		
Waikato	Taupo	356.56	289		

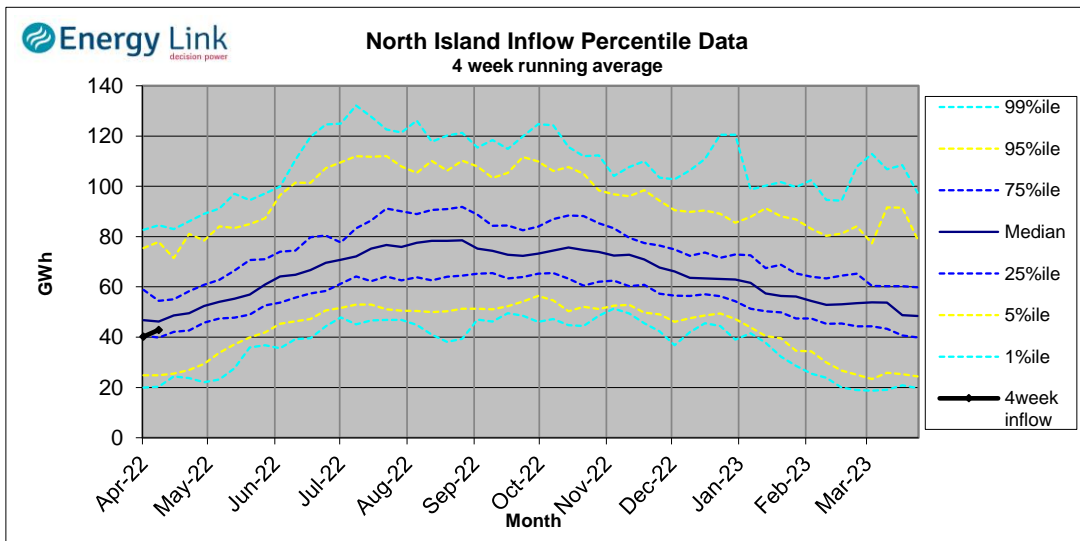
Inflow Summary

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.

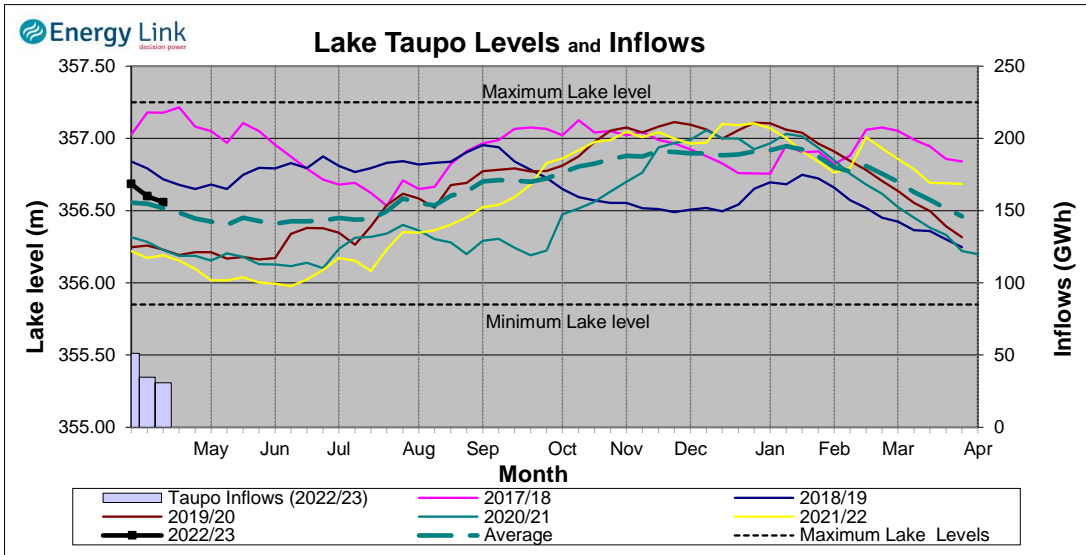
South Island Inflows - The past four weeks of S. I. inflows rank as the driest on record.



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



Waikato System

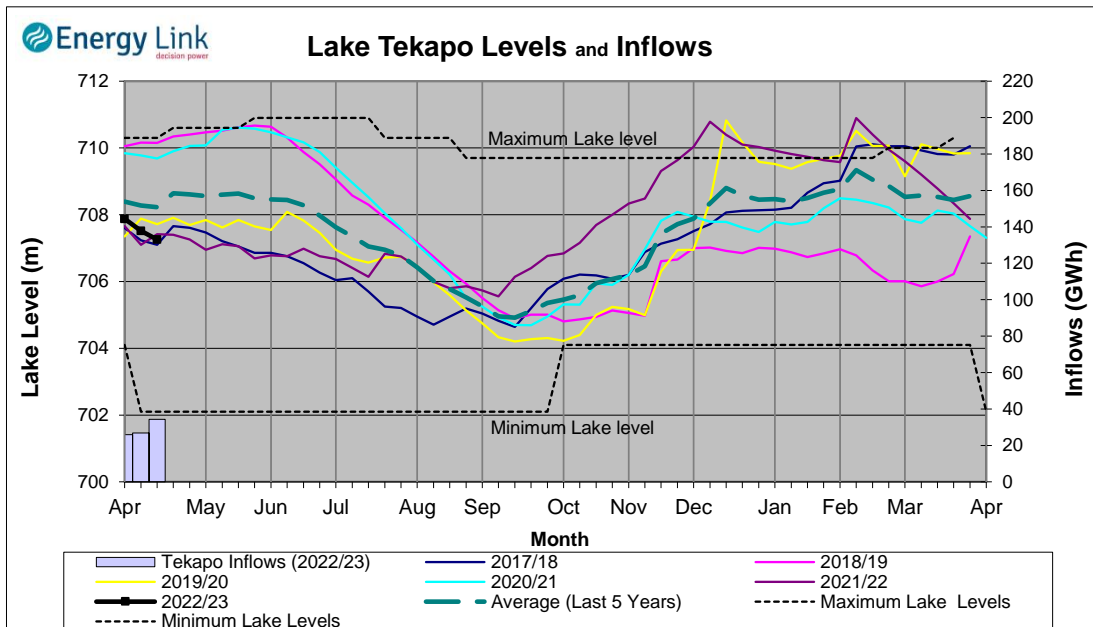


Lake Levels - Lake Taupo storage fell to 50.6% of nominal full at 289 GWh.

Inflows - Inflows decreased 11.4% to 31 GWh.

Generation - Average generation decreased 22.2% to 353.6 MW.

Tekapo



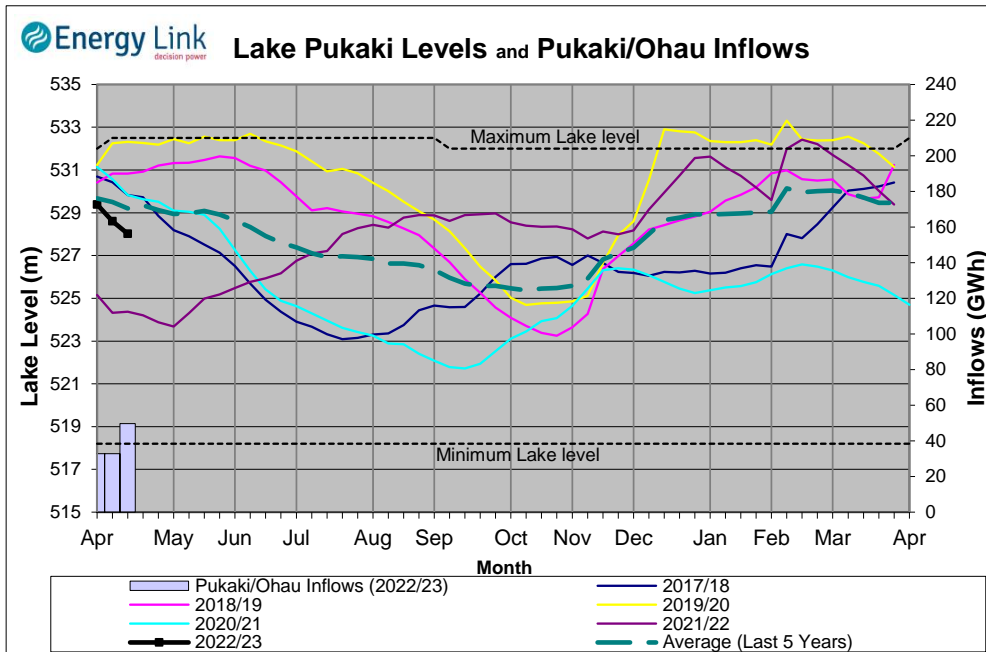
Lake Levels - Lake Tekapo ended the week 64% nominally full with storage falling to 506 GWh.

Inflows - Inflows into tekapo increased 28% to 34 GWh.

Generation - Average Tekapo generation decreased 6.1% to 129.6 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 67% nominally full with storage falling to 1240 GW

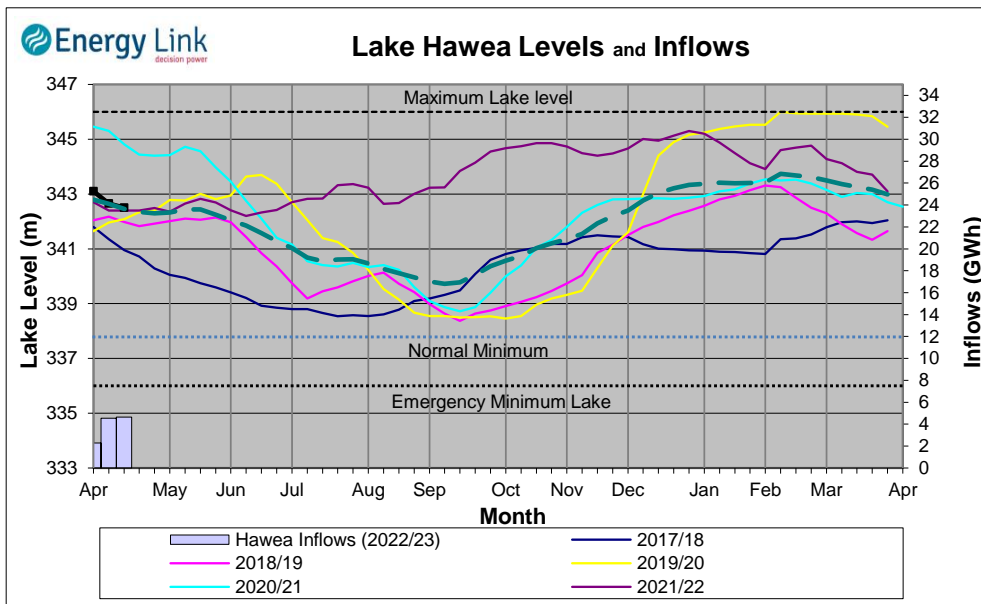
Inflows - Inflows into the Waitaki System increased 50.9% to 50 GWh.

Generation - Average Waikati generation decreased 5.7% to 1084.6 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 13.3 cumecs while Waitaki River flows were lower than last week averaging 435.4 cumecs.

Clutha System



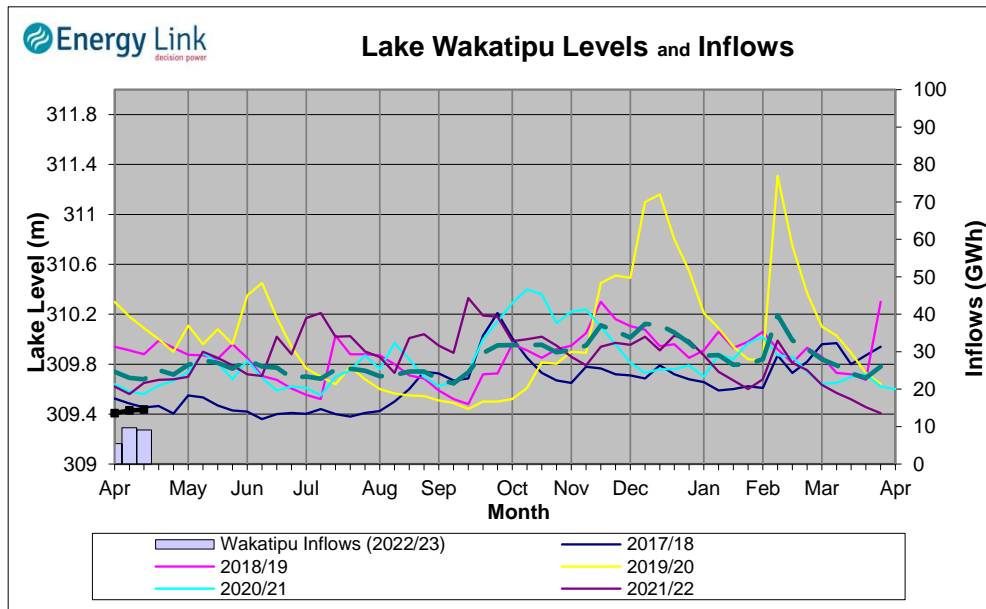
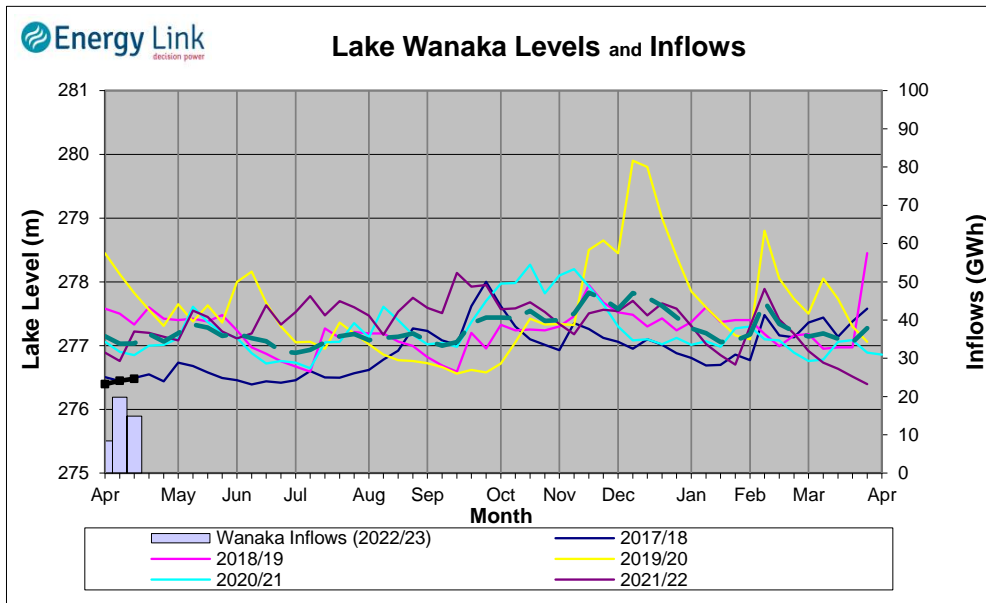
Lake Levels - Total storage for the Clutha System decreased 1.8% to 198 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 55.5%, 17.3% and 13.2% nominally full respectively.

Inflows - Total Inflows into the Clutha System 15.8% lower at 29 GWh.

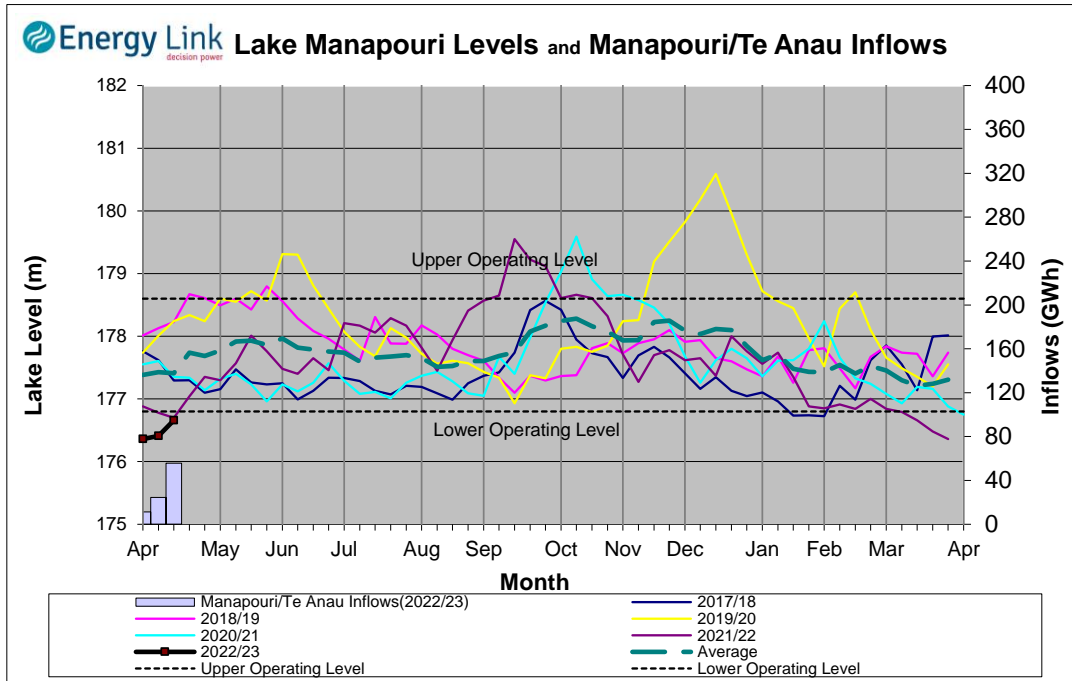
Generation - Average generation was 19.5% lower at 218 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 222.5 cumecs. This comprised of 65 cumecs from Lake Hawea, 86 cumecs from Lake Wanaka, 56 cumecs from Lake Wakatipu and 16 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 49.2% to 122 GWh with Lake Manapouri ending the week 28.9% nominally full and Lake Te Anau ending the week 27.2% nominally full.

Inflows - Total inflows into the Manapouri System increased 128.7% to 56 GWh.

Generation - Average generation was 15.3% lower at 93 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 15.8 cumecs.

Operating Range - Lakes Manapouri and Te Anau are operating in the upper end of their respective 'Low operating range'.

