



Thursday, 03 November 2022

Issue: 1333

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)	2375	488	2862	499	3361
Storage Change (GWh)	224	200	424	13	437

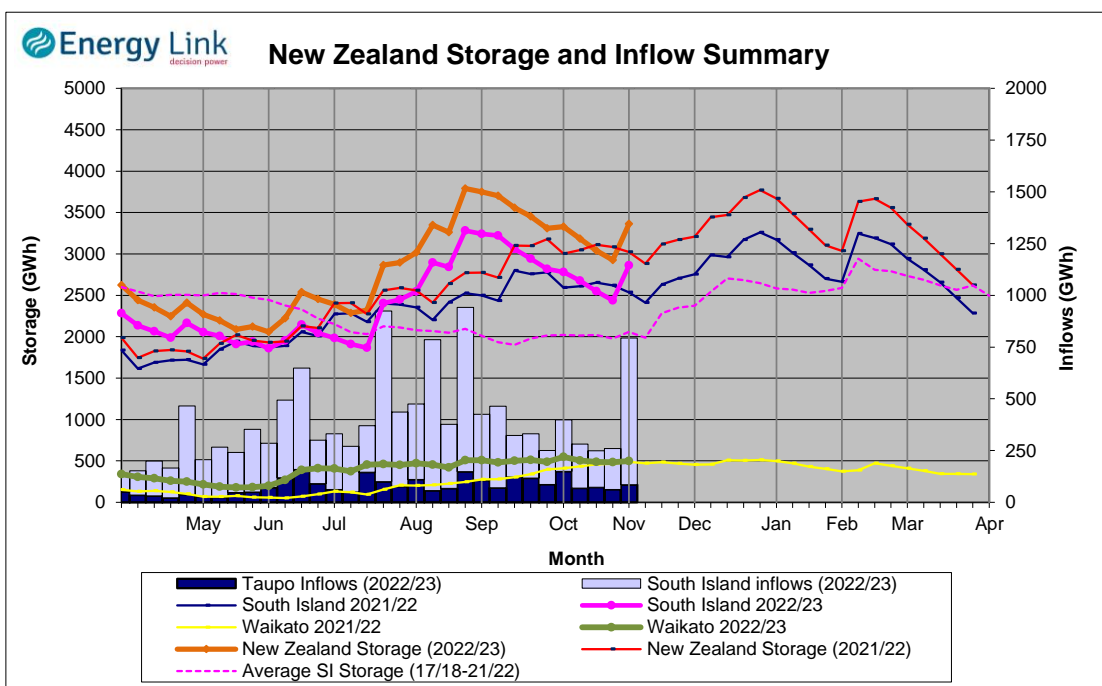
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2698	499	3197

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 436.9 GWh over the last week. South Island controlled storage increased 10.4% to 2375 GWh; South Island uncontrolled storage increased 69.7% to 488 GWh; with Taupo storage increasing 2.7% to 499 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	323	431	2108	499	3361
Last Week	215	314	1909	486	2924
% Change	50.4%	37.2%	10.4%	2.7%	14.9%
Inflow (GWh)					
This Week	198	180	331	85	793
Last Week	73	45	79	62	259
% Change	169.9%	301.2%	320.0%	36.8%	206.2%

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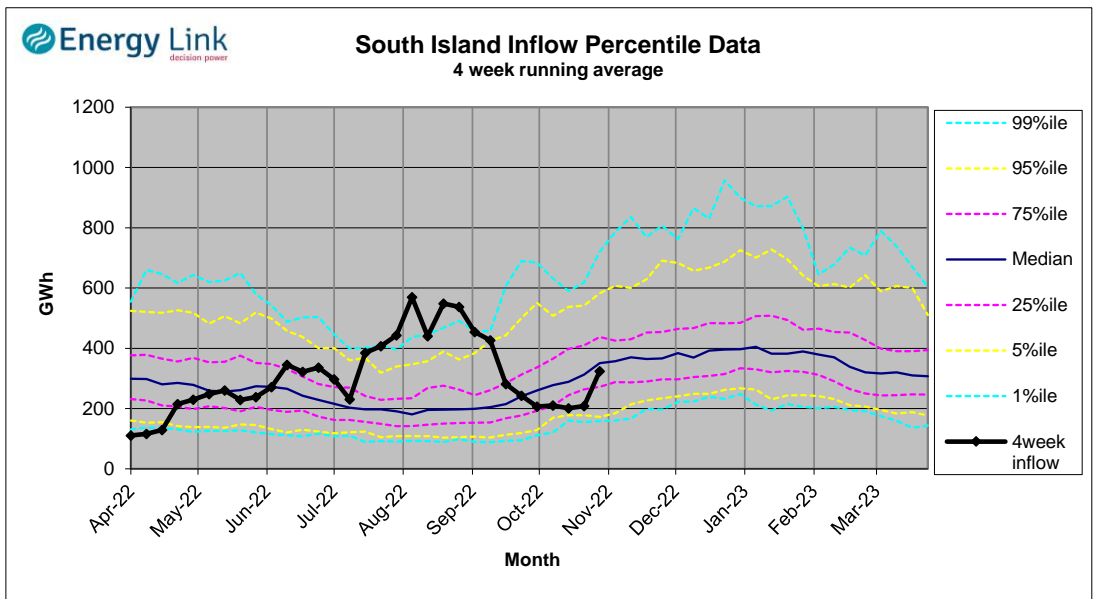
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change	
Manapouri	Manapouri	177.56	100	22		4
	Te Anau	202.35	223			
Clutha	Wakatipu	310.15	68	175		
	Wanaka	278.02	96	213		
	Hawea	345.24	267	15		
Waitaki	Tekapo	708.85	676		59	
	Pukaki	529.46	1433			
Waikato	Taupo	357.07	499			64

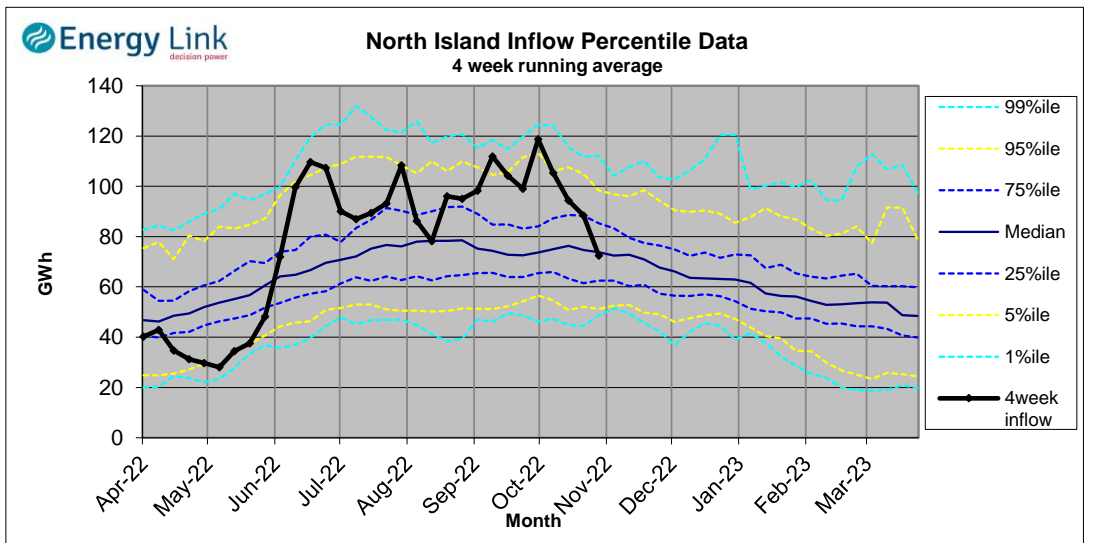
Inflow Summary

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.

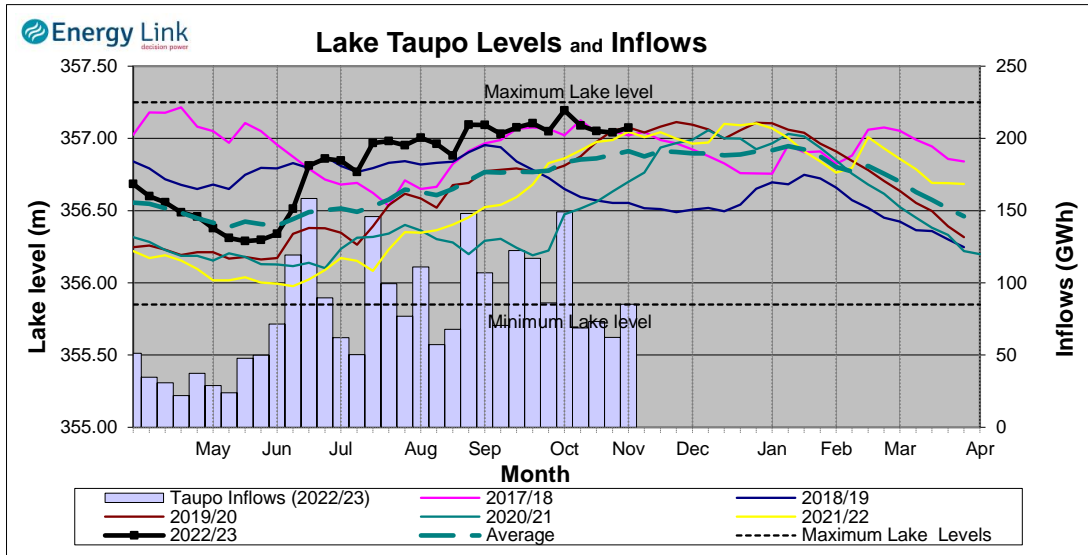
South Island Inflows - The past four weeks of S. I. inflows rank as the 37th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 42nd driest on record.



Waikato System

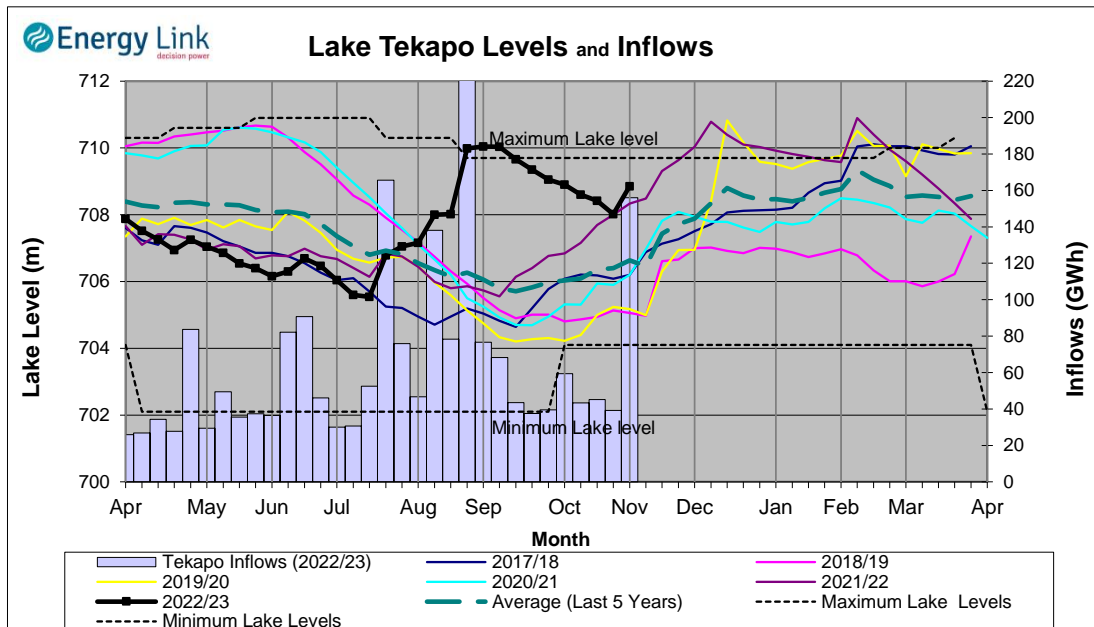


Lake Levels - Lake Taupo storage increased to 87.4% of nominal full at 499 GWh.

Inflows - Inflows increased 36.8% to 85 GWh.

Generation - Average generation increased 2.1% to 478.3 MW.

Tekapo



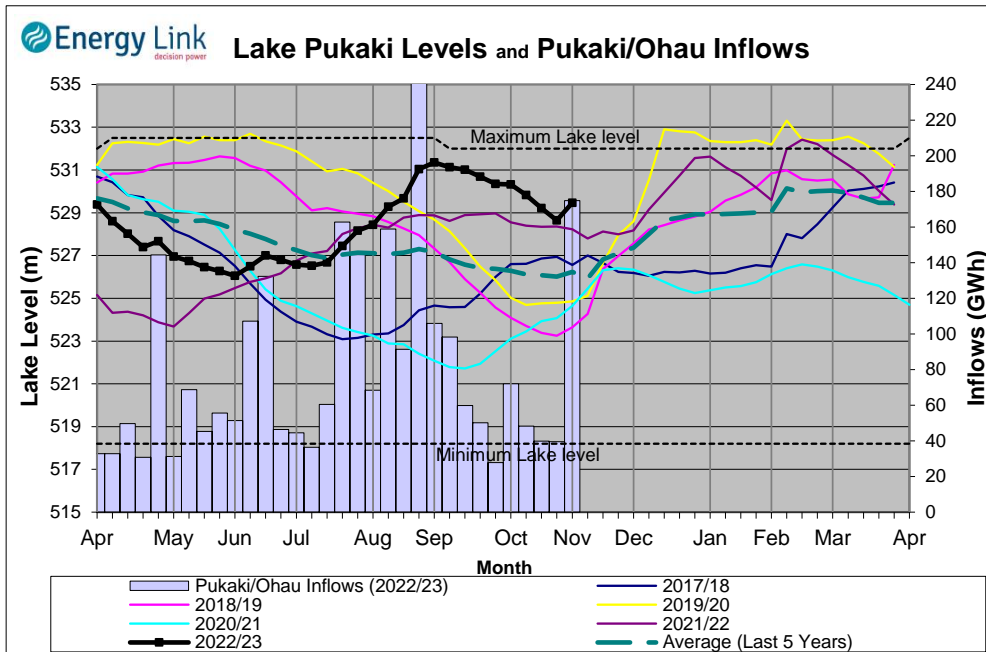
Lake Levels - Lake Tekapo ended the week 93% nominally full with storage increasing to 676 GWh.

Inflows - Inflows into tekapo increased 297.4% to 156 GWh.

Generation - Average Tekapo generation decreased 21.2% to 135.4 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 81% nominally full with storage increasing to 1433

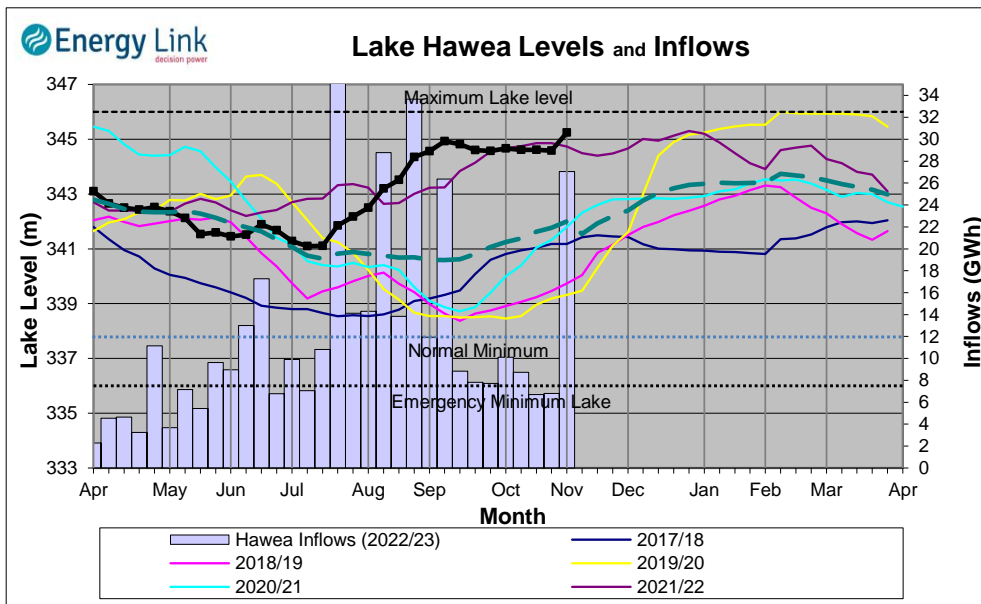
Inflows - Inflows into the Waitaki System increased 342.4% to 175 GWh.

Generation - Average Waitaki generation decreased 25.7% to 832.6 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 49.2 cumecs while Waitaki River flows were lower than last week averaging 401.6 cumecs.

Clutha System



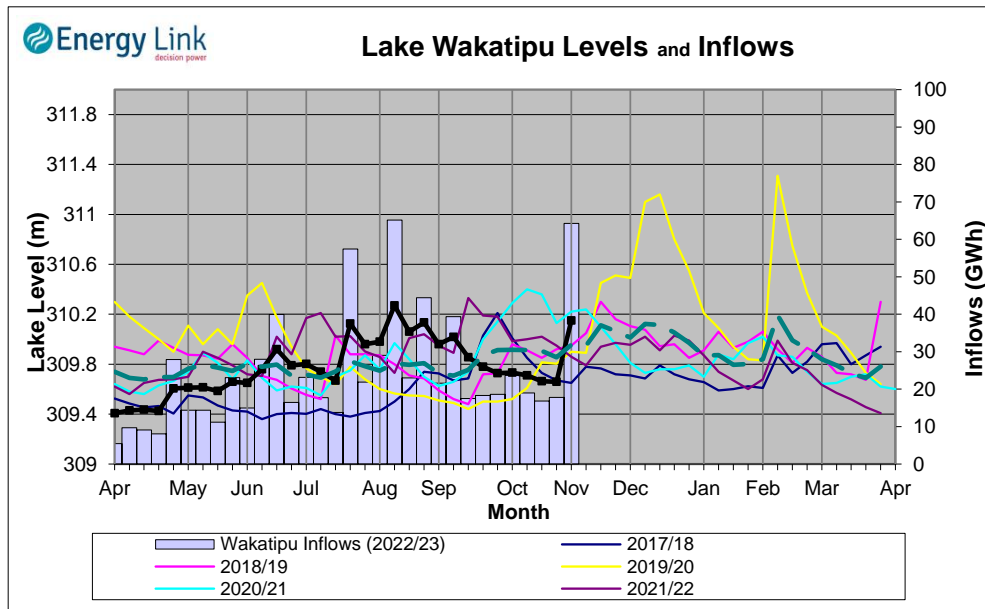
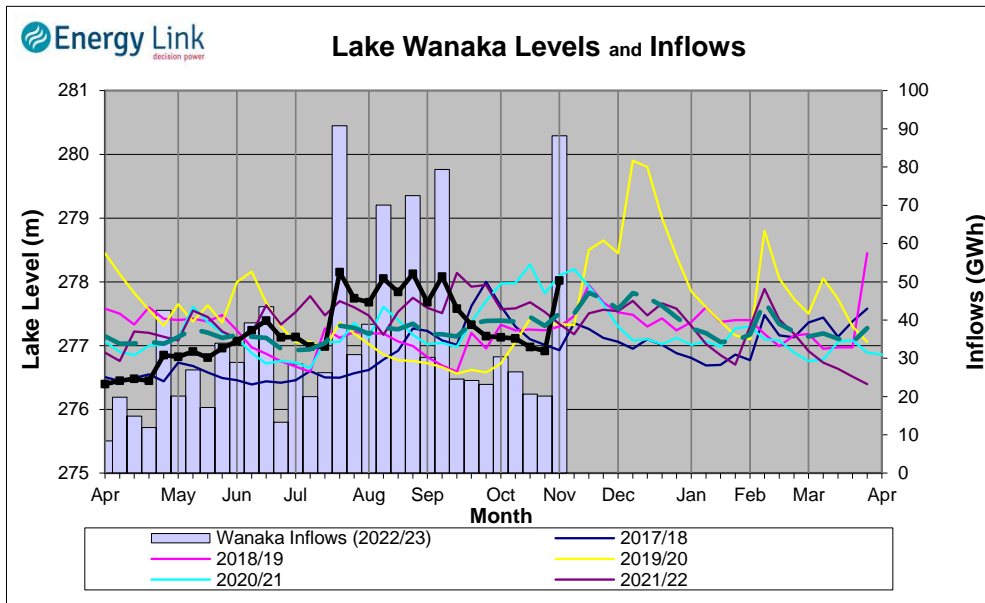
Lake Levels - Total storage for the Clutha System increased by 37.2% to 431 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 90.2%, 84.3% and 64.3% nominally full respectively.

Inflows - Total Inflows into the Clutha System 301.2% higher at 180 GWh.

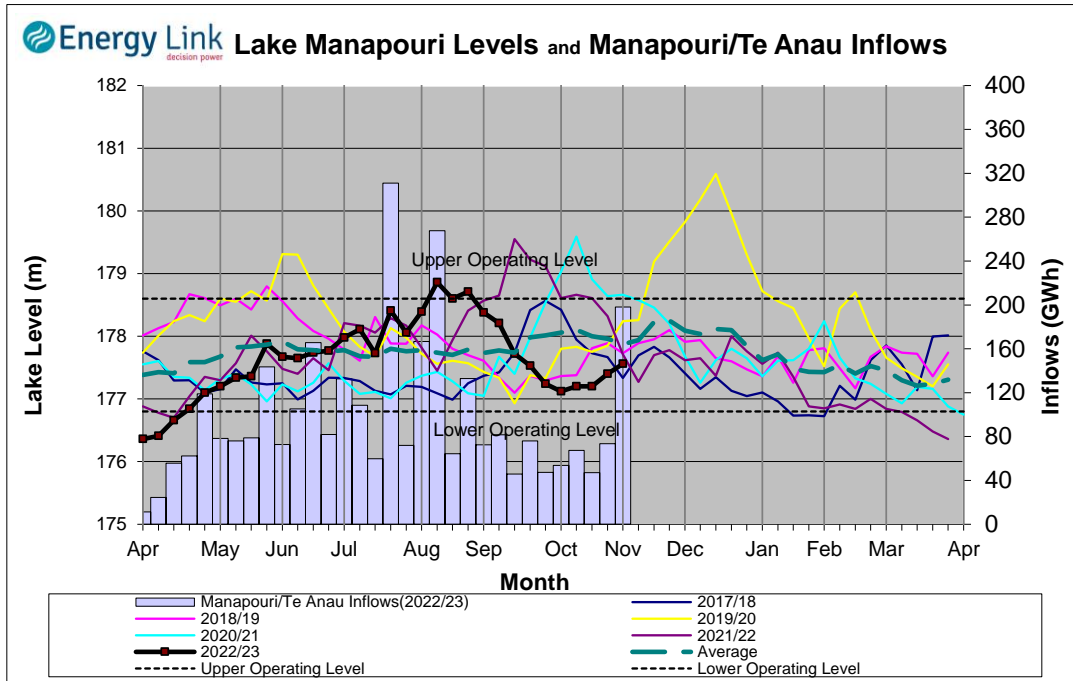
Generation - Average generation was 35.5% higher at 467 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 502.5 cumecs. This comprised of 15 cumecs from Lake Hawea, 213 cumecs from Lake Wanaka, 175 cumecs from Lake Wakatipu and 100 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 50.4% to 323 GWh with Lake Manapouri ending the week 61.8% nominally full and Lake Te Anau ending the week 81% nominally full.

Inflows - Total inflows into the Manapouri System increased 169.9% to 198 GWh.

Generation - Average generation was 49.6% higher at 534 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 21.7 cumecs.

Operating Range - Lake Manapouri is operating in the middle of its 'Main operating range' while Lake Te Anau is operating in the upper end of its 'Main operating range'

