



Thursday, 27 October 2022

Issue: 1332

A weekly summary relating to New Zealand hydro storage and inflows.

Compiled by Energy Link Ltd.

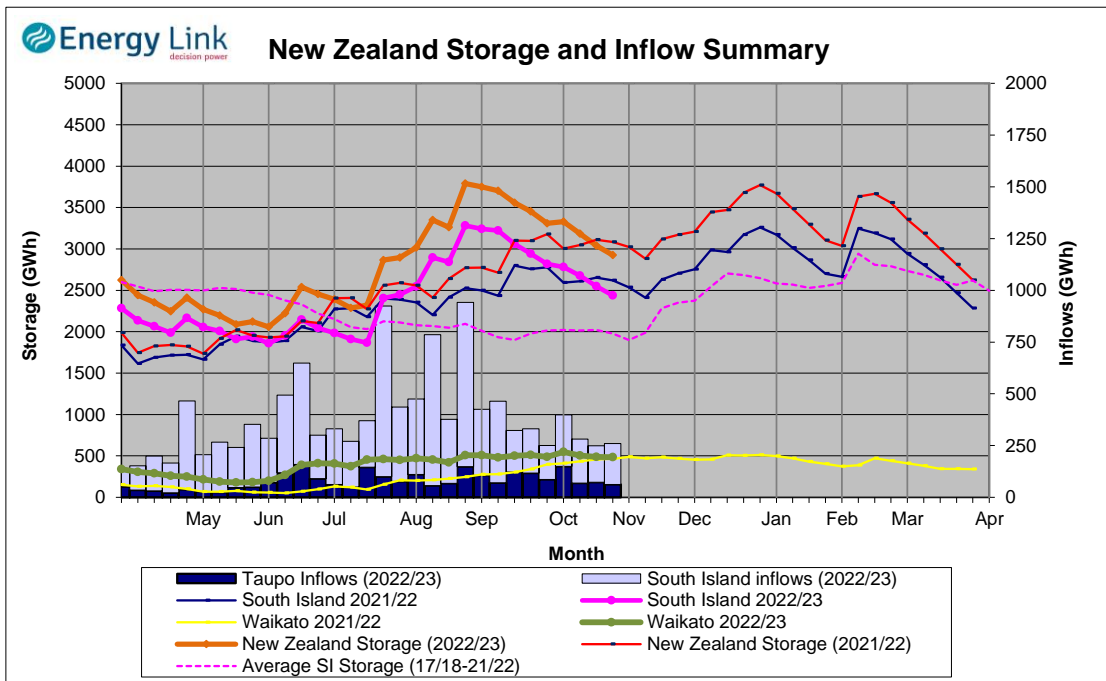
Storage Summary	South Island Controlled	South Island Uncontrolled	South Island Total	North Island Taupo	Total Storage
Current Storage (GWh)	2151	287	2439	486	2924
Storage Change (GWh)	-121	10	-111	-4	-115

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)	2366	486	2852
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 114.6 GWh over the last week. South Island controlled storage decreased 5.3% to 2151 GWh; South Island uncontrolled storage increased 3.6% to 287 GWh; with Taupo storage decreasing 0.8% to 486 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	215	314	1909	486	2924
Last Week	202	319	2029	489	3039
% Change	6.6%	-1.4%	-5.9%	-0.8%	-3.8%
Inflow (GWh)					
This Week	73	45	79	62	259
Last Week	47	44	85	73	250
% Change	55.9%	1.4%	-7.4%	-15.0%	3.9%

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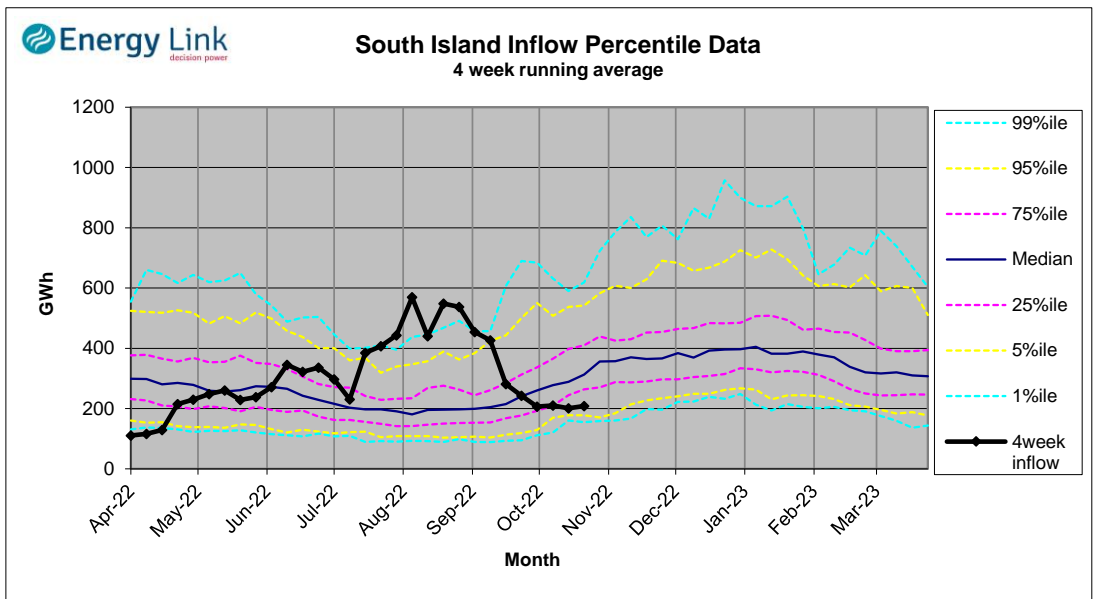
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.40	91	18	
	Te Anau	201.69	124		
Clutha	Wakatipu	309.66	31	116	-15
	Wanaka	276.92	41	149	-25
	Hawea	344.58	242	51	9
Waitaki	Tekapo	708.02	587		
	Pukaki	528.64	1323		
Waikato	Taupo	357.04	486		

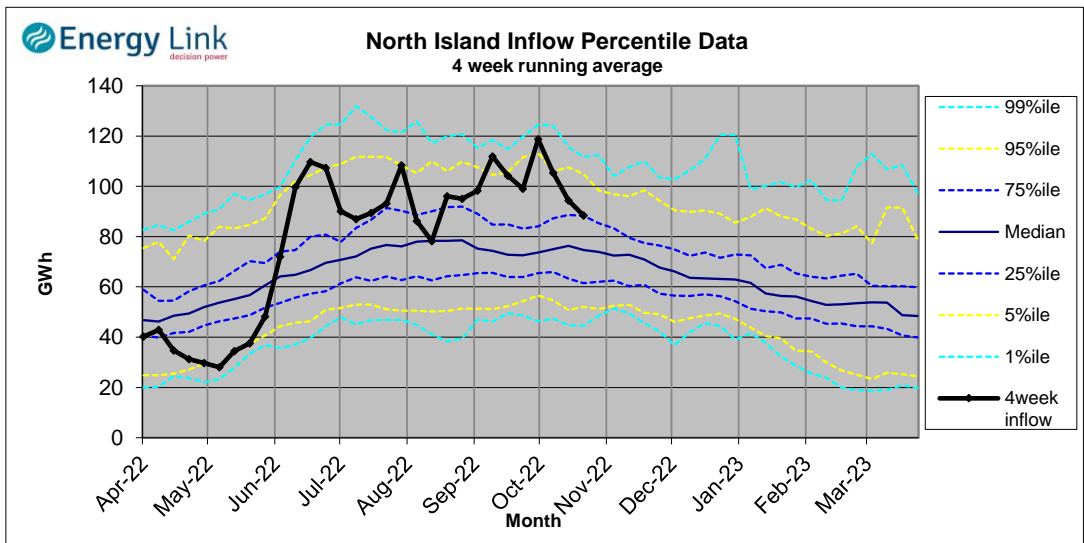
Inflow Summary

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.

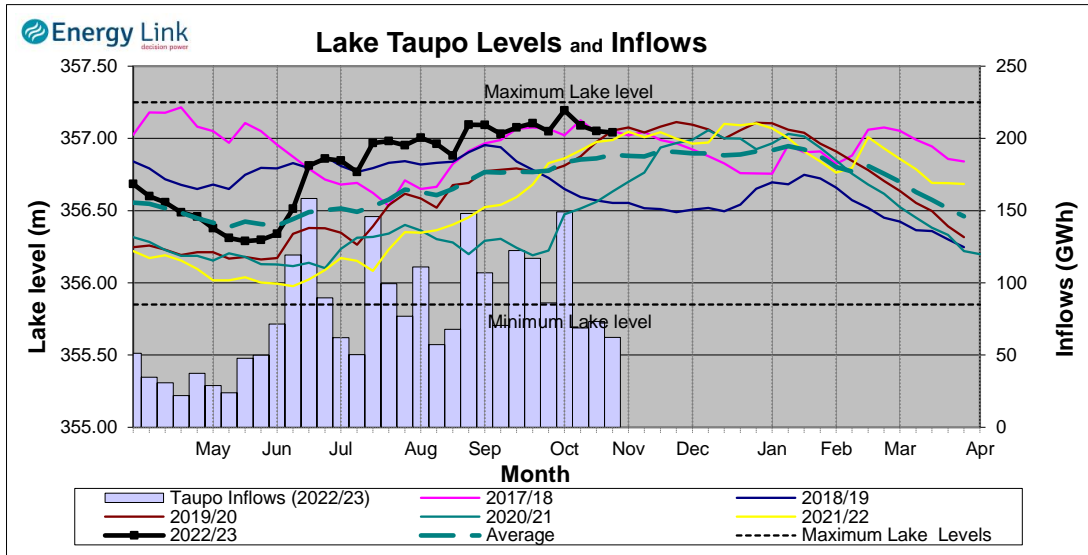
South Island Inflows - The past four weeks of S. I. inflows rank as the 12th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 23rd wettest on record.



Waikato System

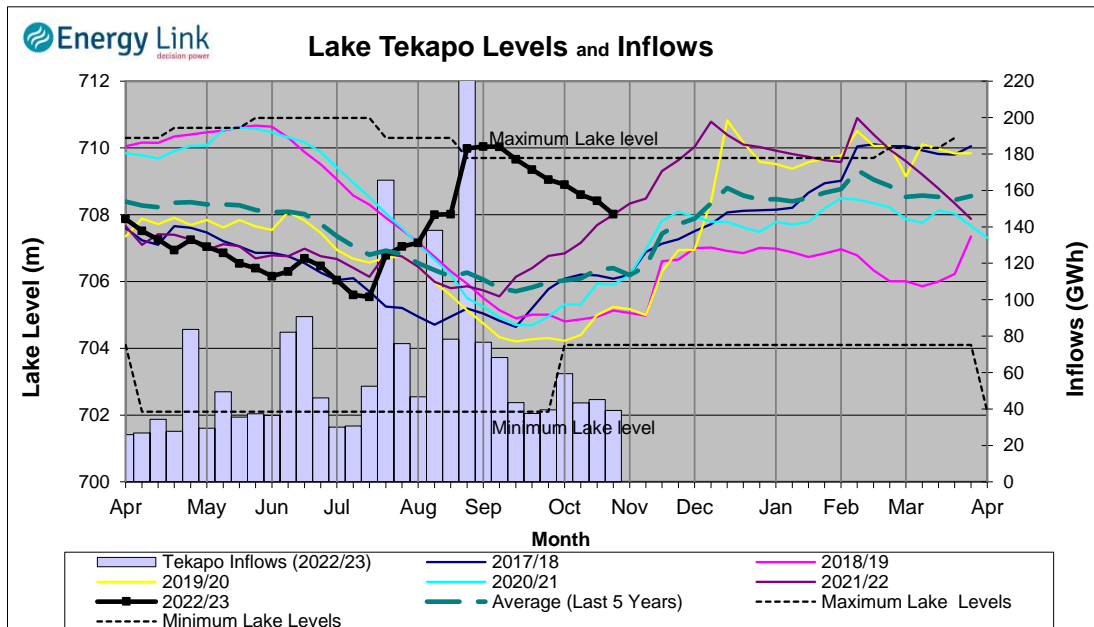


Lake Levels - Lake Taupo storage fell to 85.1% of nominal full at 486 GWh.

Inflows - Inflows decreased 15% to 62 GWh.

Generation - Average generation decreased 20% to 468.4 MW.

Tekapo



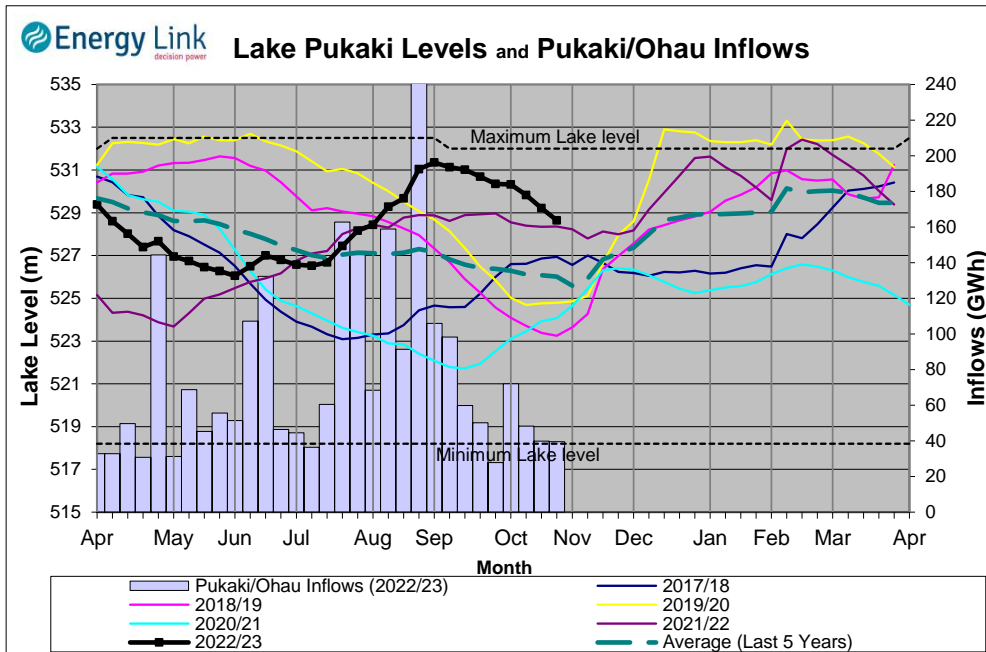
Lake Levels - Lake Tekapo ended the week 81% nominally full with storage falling to 587 GWh.

Inflows - Inflows into tekapo decreased 13.1% to 39 GWh.

Generation - Average Tekapo generation increased 23.2% to 171.9 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 74% nominally full with storage falling to 1323 GW

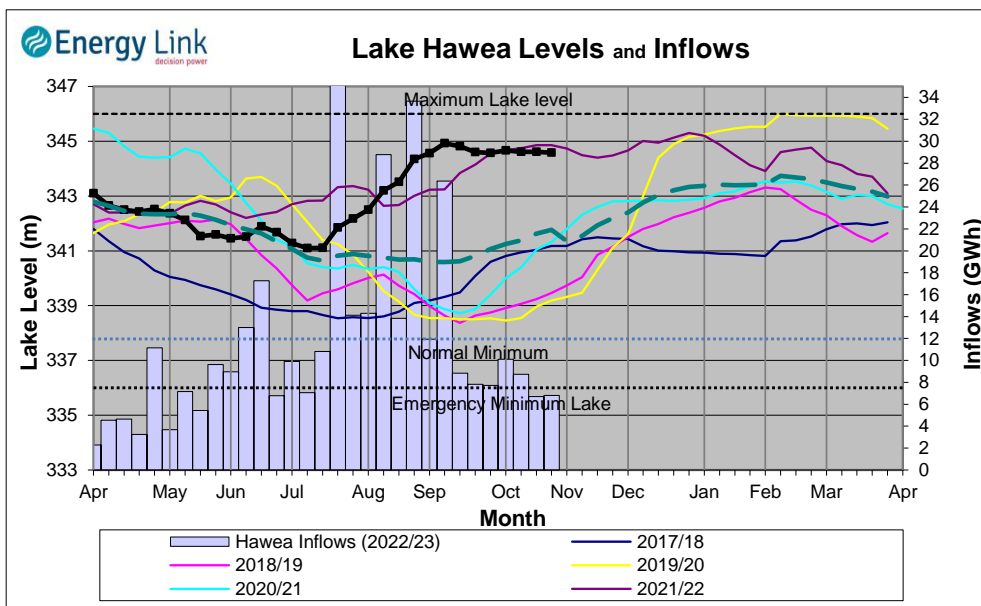
Inflows - Inflows into the Waitaki System remained steady at 40 GWh.

Generation - Average Waitaki generation decreased 1.7% to 1120.4 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 23.3 cumecs while Waitaki River flows were lower than last week averaging 483.2 cumecs.

Clutha System



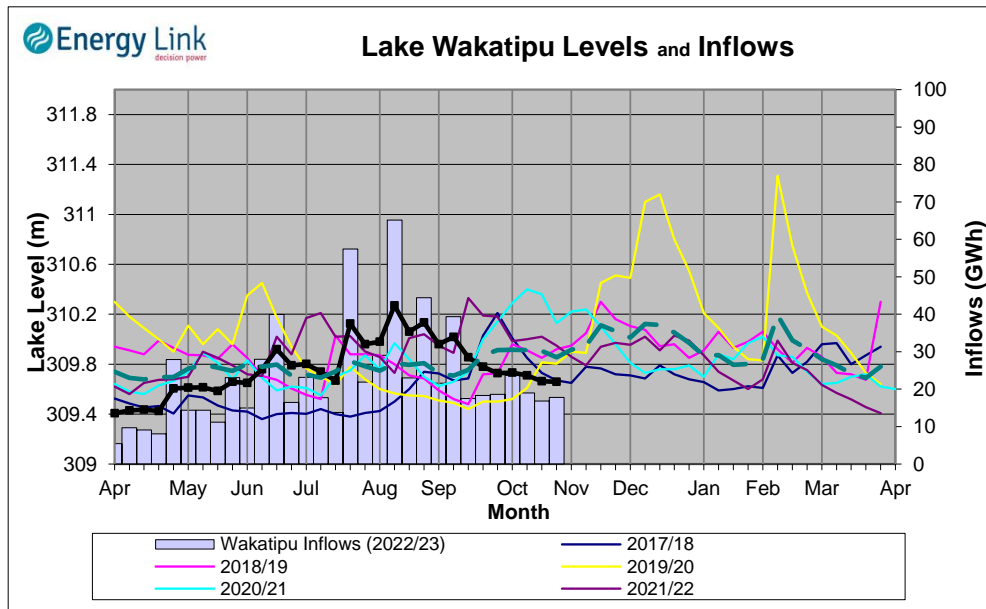
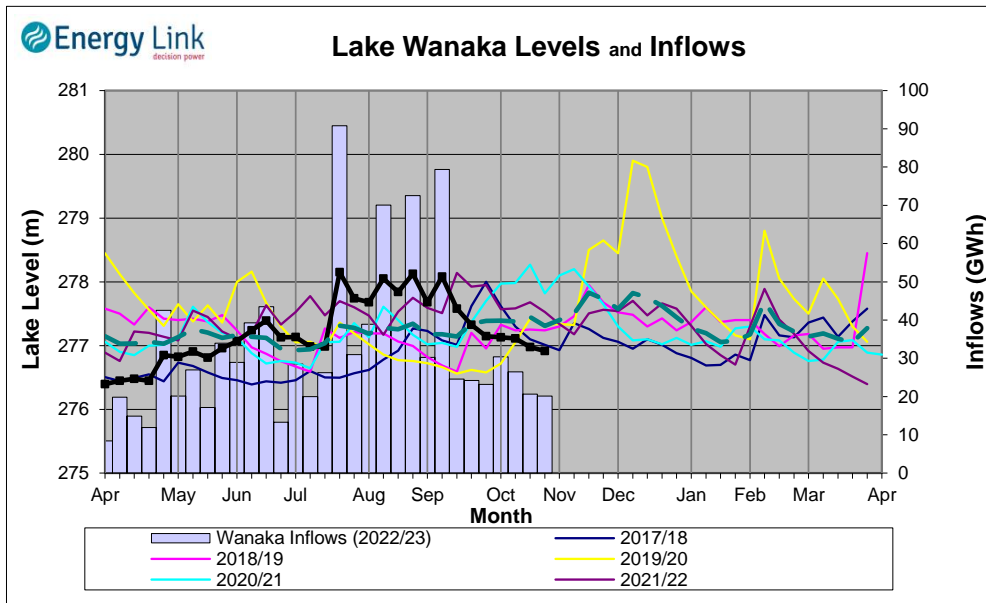
Lake Levels - Total storage for the Clutha System decreased 1.4% to 314 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 81.9%, 36.2% and 29.3% nominally full respectively.

Inflows - Total Inflows into the Clutha System 1.4% higher at 45 GWh.

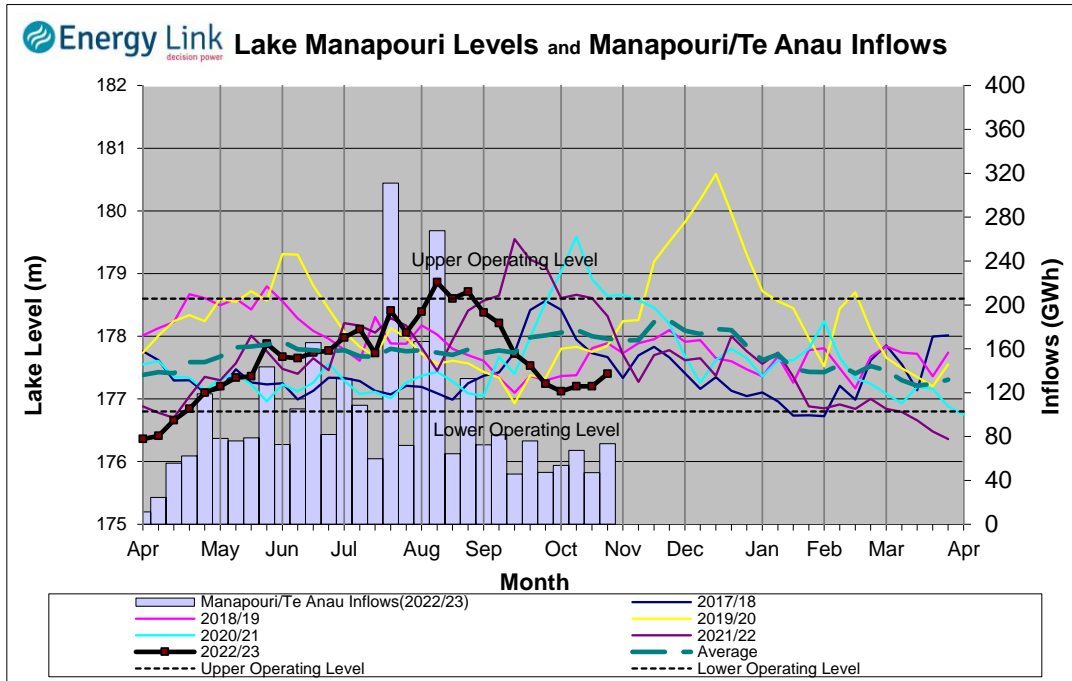
Generation - Average generation was 10.5% lower at 345 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 363 cumecs. This comprised of 51 cumecs from Lake Hawea, 149 cumecs from Lake Wanaka, 116 cumecs from Lake Wakatipu and 47 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 6.6% to 215 GWh with Lake Manapouri ending the week 55.9% nominally full and Lake Te Anau ending the week 45.1% nominally full.

Inflows - Total inflows into the Manapouri System increased 55.9% to 73 GWh.

Generation - Average generation was 5.6% lower at 357 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 18 cumecs.

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

