



Thursday, 04 August 2022

Issue: 1320

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)	1955	593	2547	471	3018
Storage Change (GWh)	60	41	100	21	122

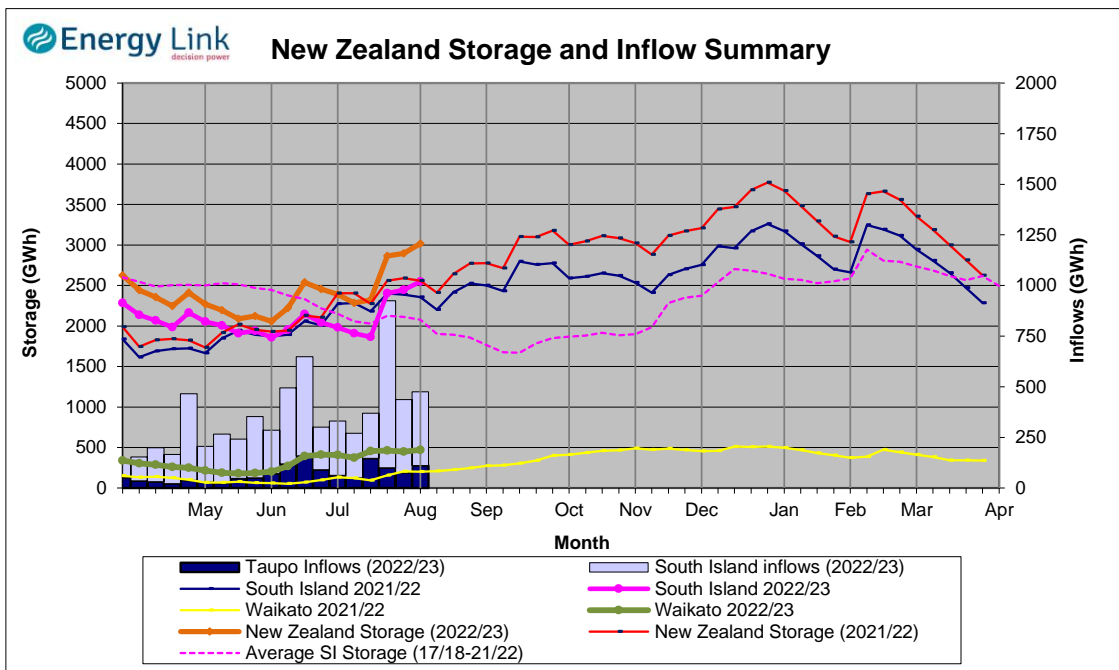
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2413	471	2883

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 121.7 GWh over the last week. South Island controlled storage increased 3.2% to 1955 GWh; South Island uncontrolled storage increased 7.4% to 593 GWh; with Taupo storage increasing 4.7% to 471 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	458	298	1791	471	3018
Last Week	416	288	1743	449	2896
% Change	10.1%	3.7%	2.7%	4.7%	4.2%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	167	82	115	111	475
Last Week	72	67	220	77	436
% Change	131.3%	22.7%	-47.8%	44.3%	8.8%

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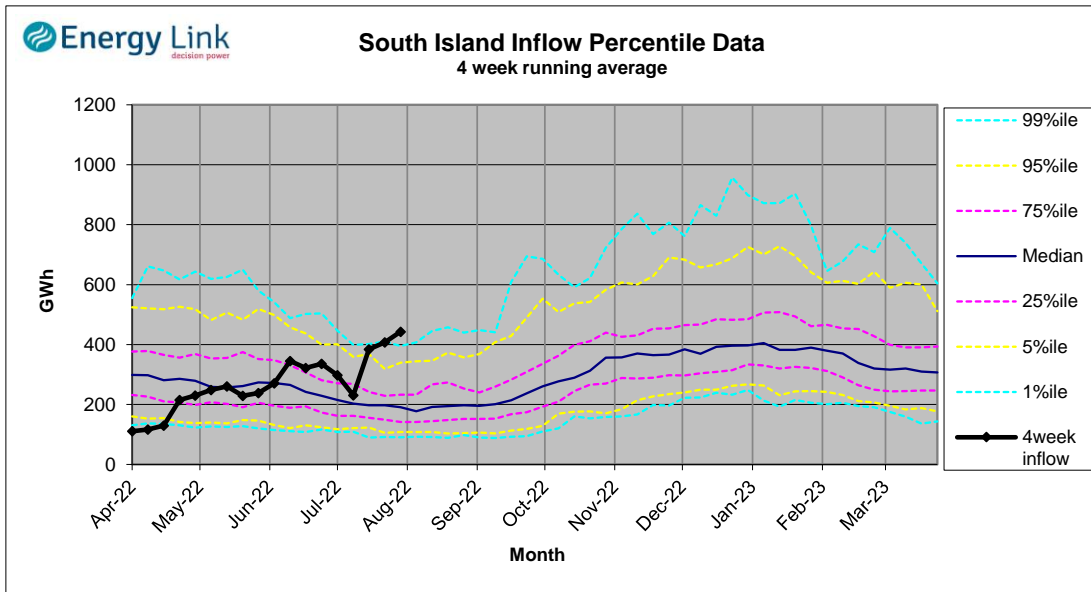
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	178.39	150	25	-31
	Te Anau	202.92	308		
Clutha	Wakatipu	309.98	55	176	-44
	Wanaka	277.68	80	269	
	Hawea	342.50	164	14	
Waitaki	Tekapo	707.16	496		-61
	Pukaki	528.43	1295		
Waikato	Taupo	357.00	471		0

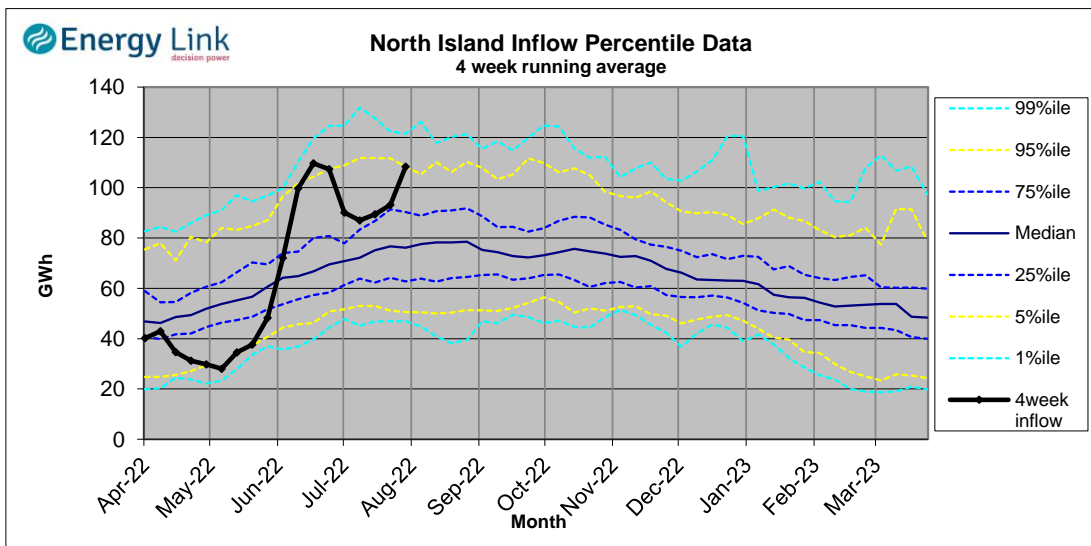
Inflow Summary

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.

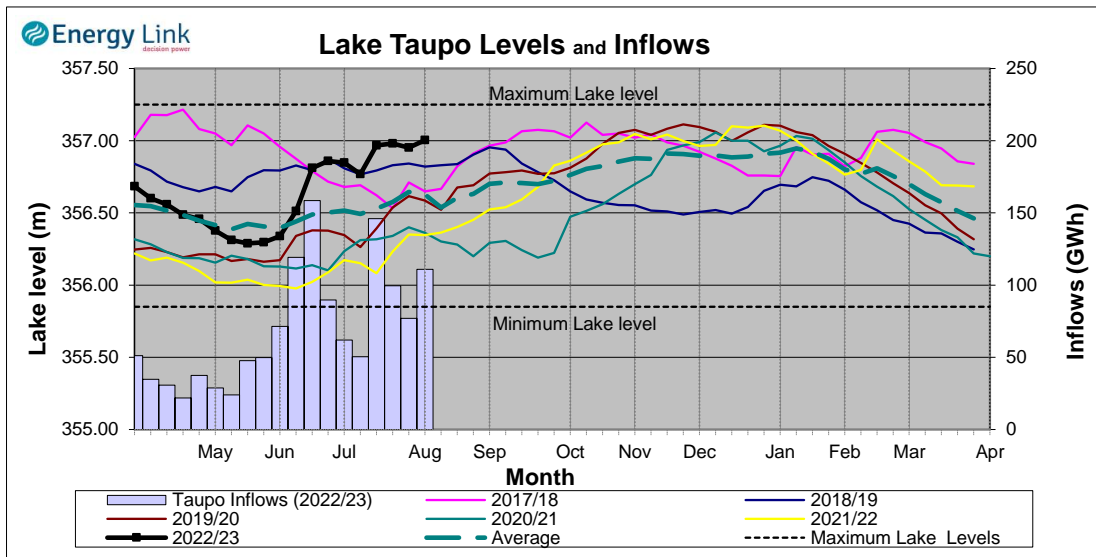
South Island Inflows - The past four weeks of S. I. inflows rank as the wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 5th wettest on record.



Waikato System

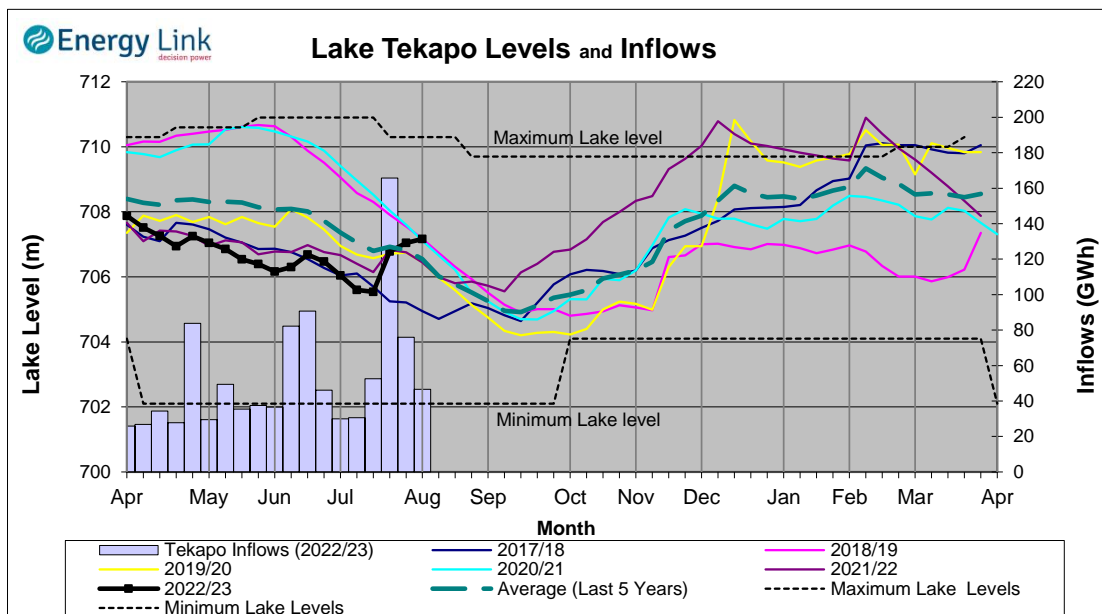


Lake Levels - Lake Taupo storage increased to 82.4% of nominal full at 471 GWh.

Inflows - Inflows increased 44.3% to 111 GWh.

Generation - Average generation decreased 7.1% to 591.6 MW.

Tekapo



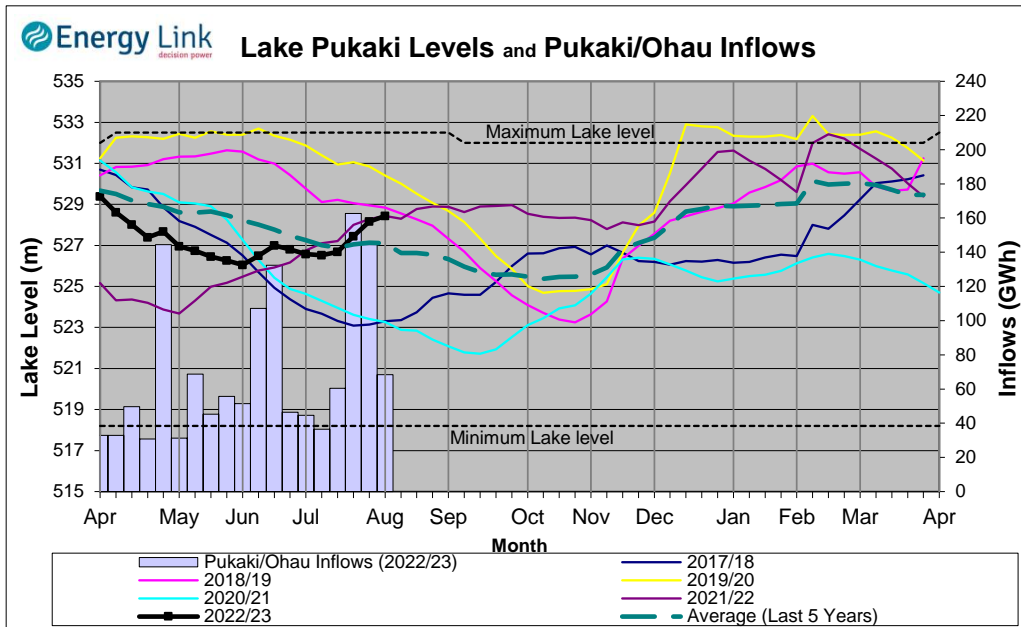
Lake Levels - Lake Tekapo ended the week 58% nominally full with storage increasing to 496 GWh.

Inflows - Inflows into tekapo decreased 38.6% to 47 GWh.

Generation - Average Tekapo generation decreased 27.3% to 74 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 70% nominally full with storage increasing to 1295 GV

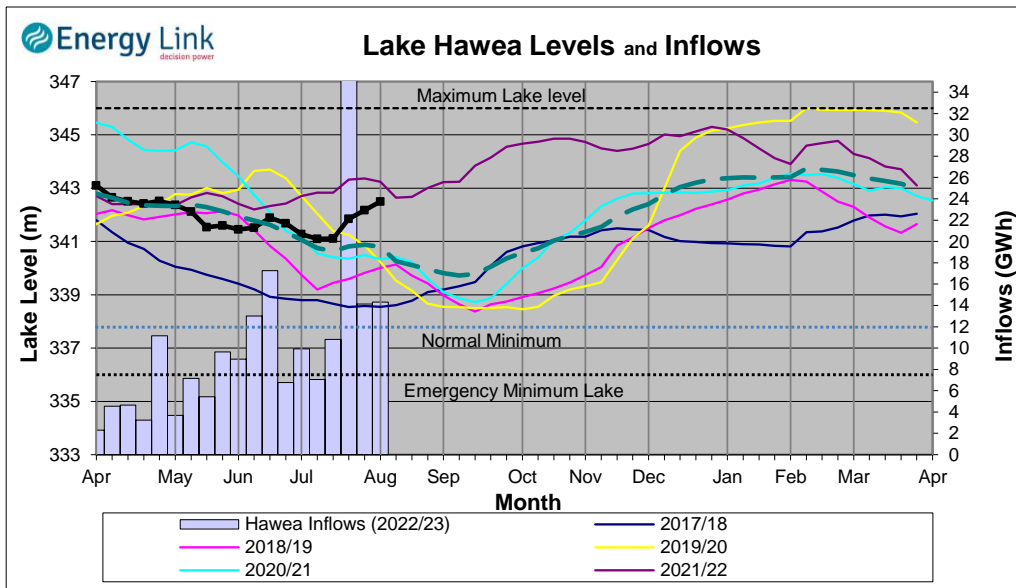
Inflows - Inflows into the Waitaki System decreased 52.7% to 68 GWh.

Generation - Average Waikati generation decreased 29.2% to 585.6 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 48.4 cumecs while Waitaki River flows were lower than last week averaging 341.2 cumecs.

Clutha System



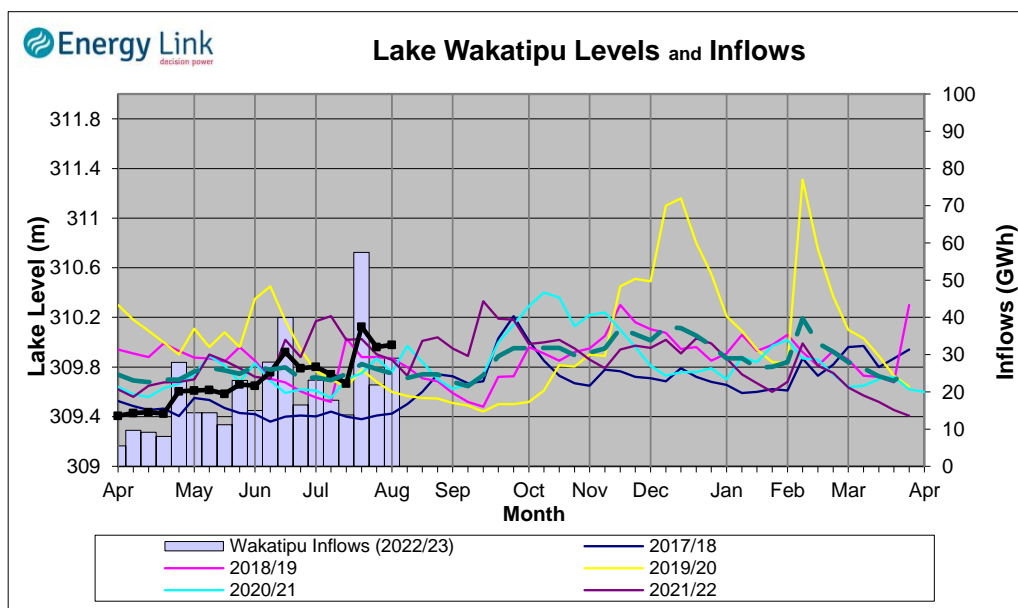
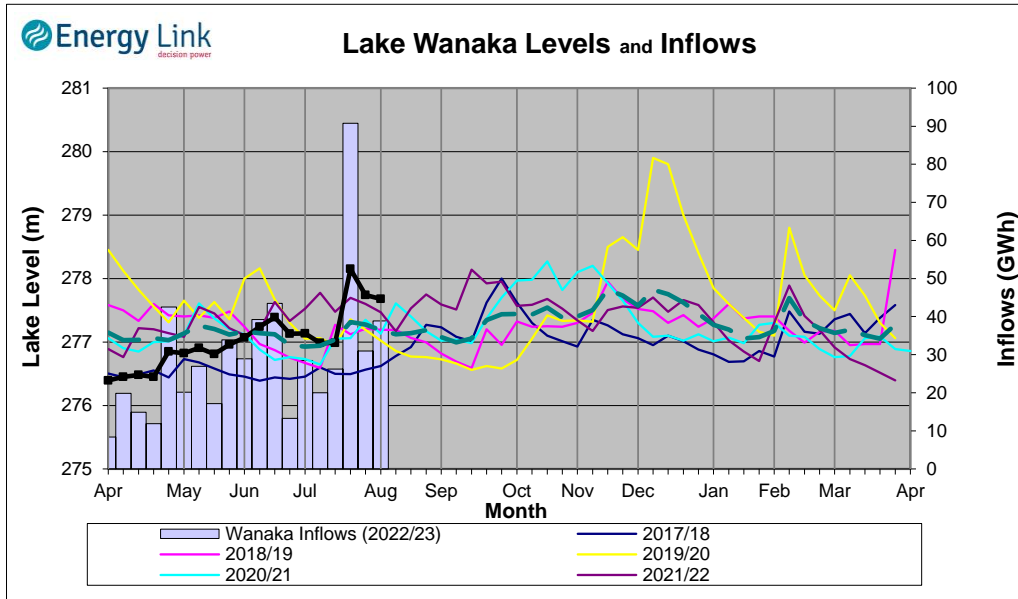
Lake Levels - Total storage for the Clutha System increased by 3.7% to 298 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 55.4%, 69.5% and 52.1% nominally full respectively.

Inflows - Total Inflows into the Clutha System 22.7% higher at 82 GWh.

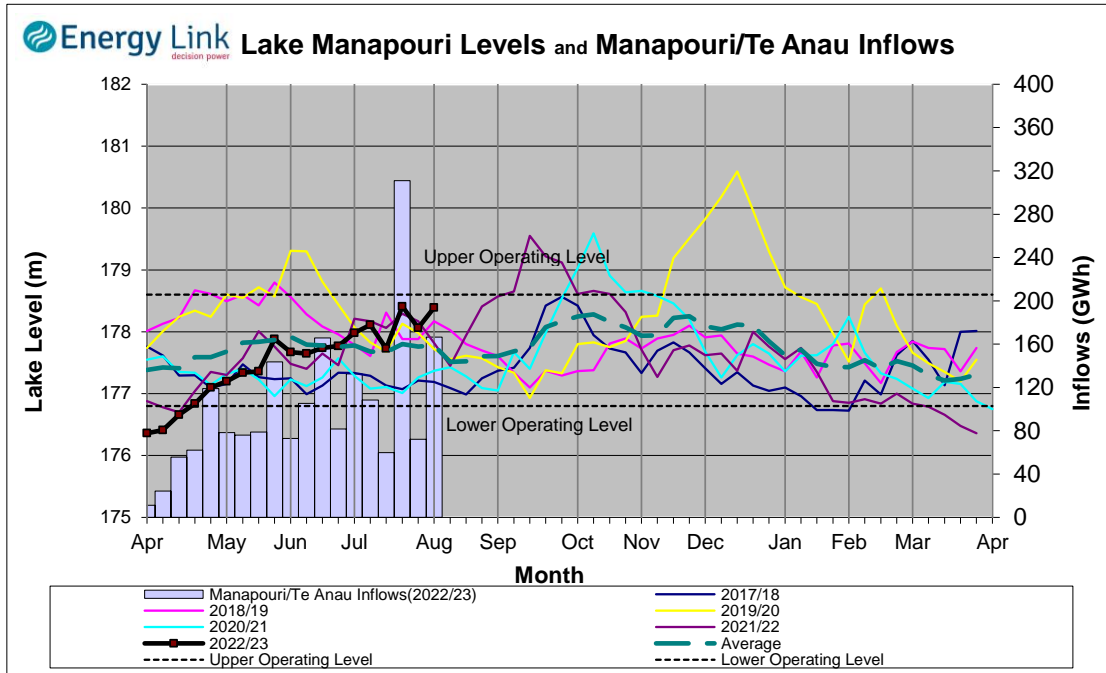
Generation - Average generation was 5% lower at 458 MW.

Hydro Spill - Estimate Spill is 10.7 cumecs.

River Flows - Total outflows from the lakes and Shotover River fell to 518.7 cumecs. This comprised of 14 cumecs from Lake Hawea, 269 cumecs from Lake Wanaka, 176 cumecs from Lake Wakatipu and 60 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 10.1% to 458 GWh with Lake Manapouri ending the week 92.2% nominally full and Lake Te Anau ending the week 112% nominally full.

Inflows - Total inflows into the Manapouri System increased 131.3% to 167 GWh.

Generation - Average generation was 1.6% higher at 721 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 24.6 cumecs.

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

