



Thursday, 12 May 2022

Issue: 1308

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)	1686	322	2007	188	2195
Storage Change (GWh)	-56	10	-47	-27	-74

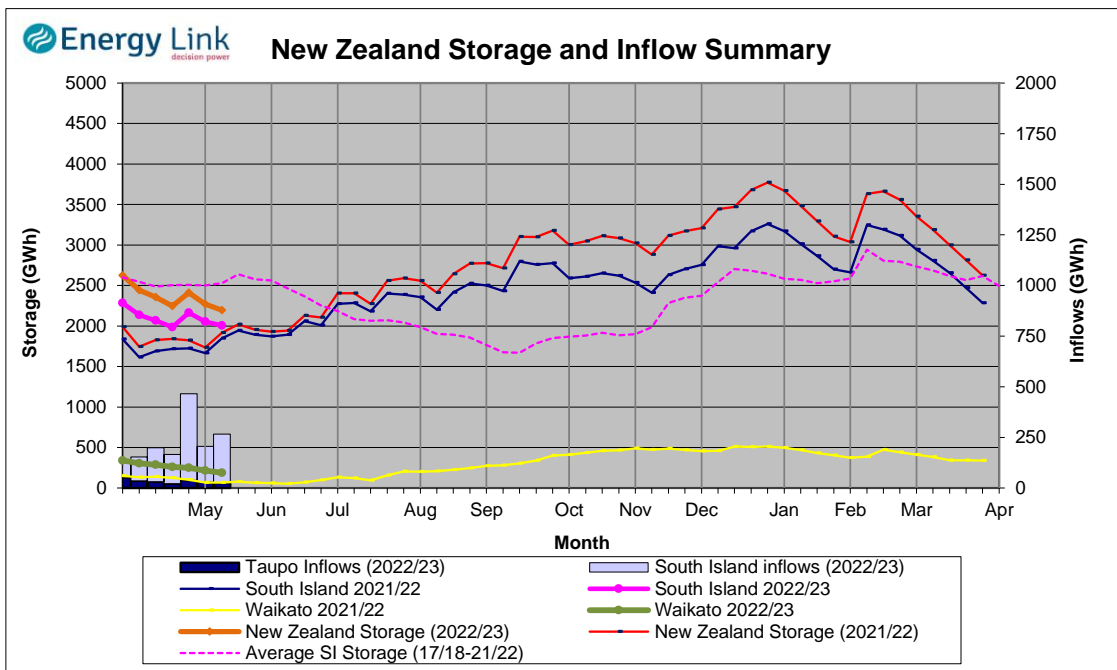
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1939	188	2127

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 73.7 GWh over the last week. South Island controlled storage decreased 3.2% to 1686 GWh; South Island uncontrolled storage increased 3% to 322 GWh; with Taupo storage decreasing 12.5% to 188 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	253	218	1536	188	2195
Last Week	248	223	1583	215	2269
% Change	2.1%	-2.3%	-3.0%	-12.5%	-3.2%
Inflow (GWh)					
This Week	76	48	118	24	267
Last Week	78	38	61	29	206
% Change	-3.0%	26.9%	95.0%	-17.1%	29.4%

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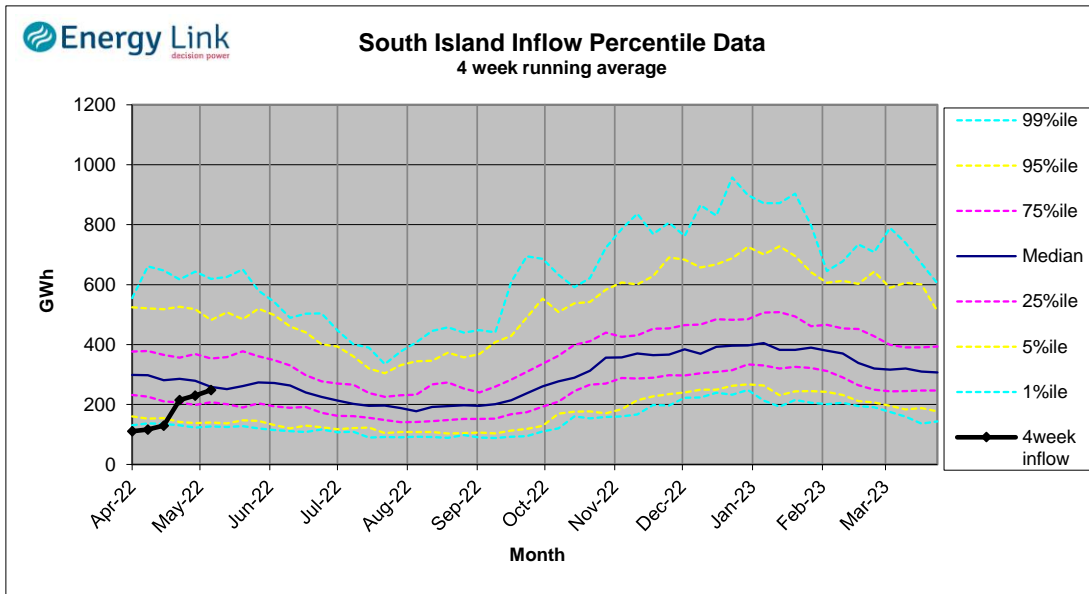
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.34	87	13	-4
	Te Anau	201.97	166		
Clutha	Wakatipu	309.62	28	91	2
	Wanaka	276.91	41	147	10
	Hawea	342.12	150	106	47
Waitaki	Tekapo	706.86	465		
	Pukaki	526.74	1071		
Waikato	Taupo	356.31	188		

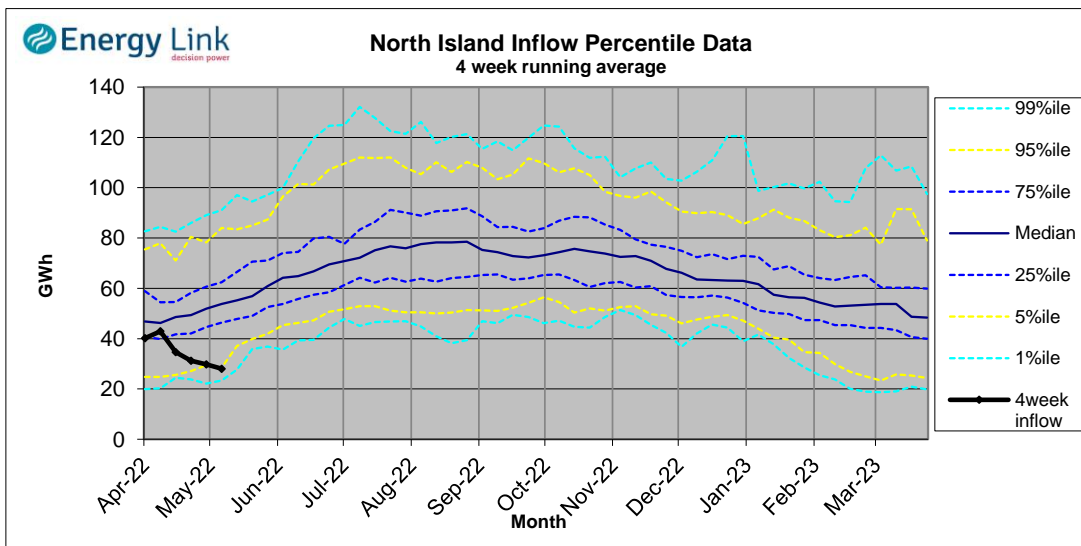
Inflow Summary

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.

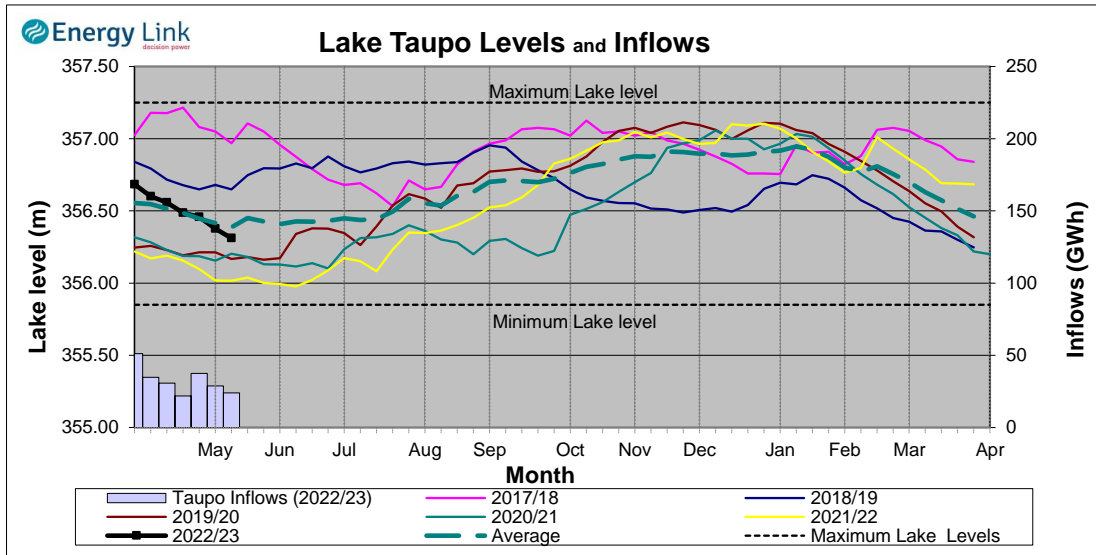
South Island Inflows - The past four weeks of S. I. inflows rank as the 39th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 4th driest on record.



Waikato System

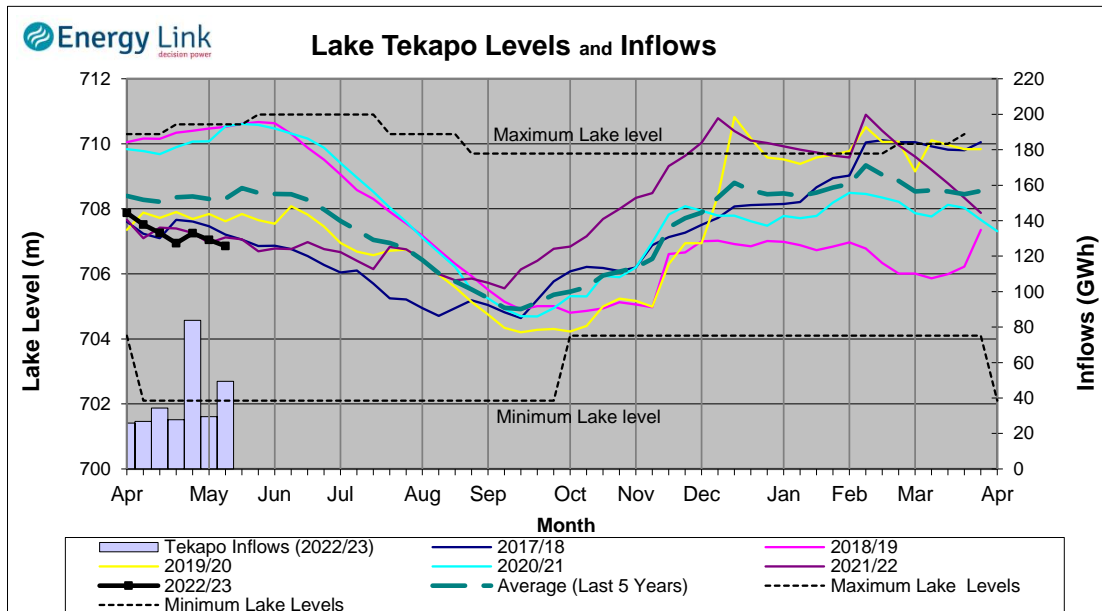


Lake Levels - Lake Taupo storage fell to 32.9% of nominal full at 188 GWh.

Inflows - Inflows decreased 17.1% to 24 GWh.

Generation - Average generation decreased 14.3% to 338.1 MW.

Tekapo



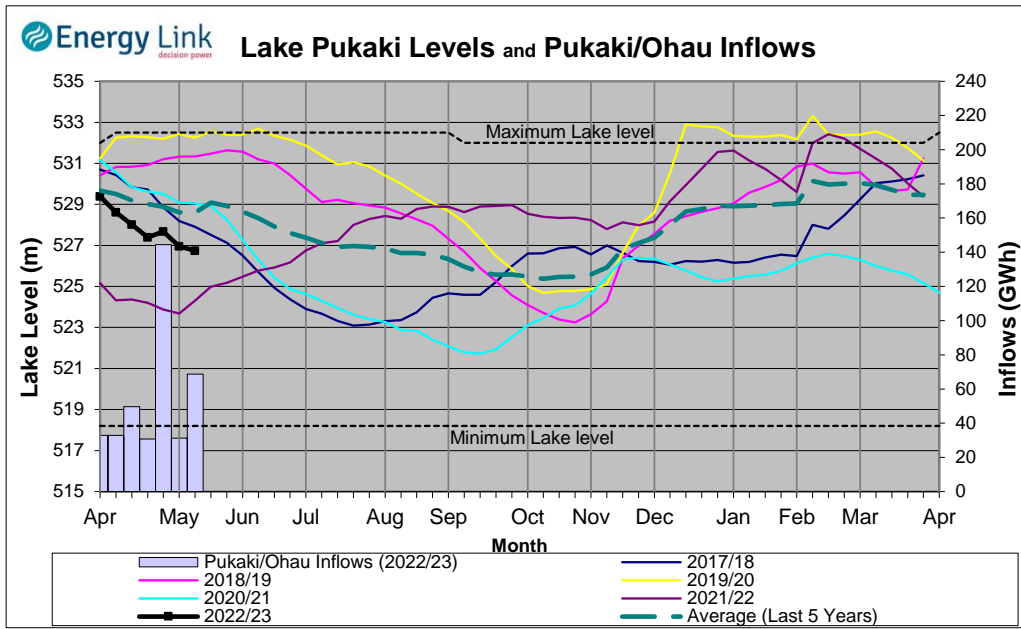
Lake Levels - Lake Tekapo ended the week 57% nominally full with storage falling to 465 GWh.

Inflows - Inflows into tekapo increased 68.1% to 49 GWh.

Generation - Average Tekapo generation increased 34.1% to 144.7 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 58% nominally full with storage falling to 1071 GWh.

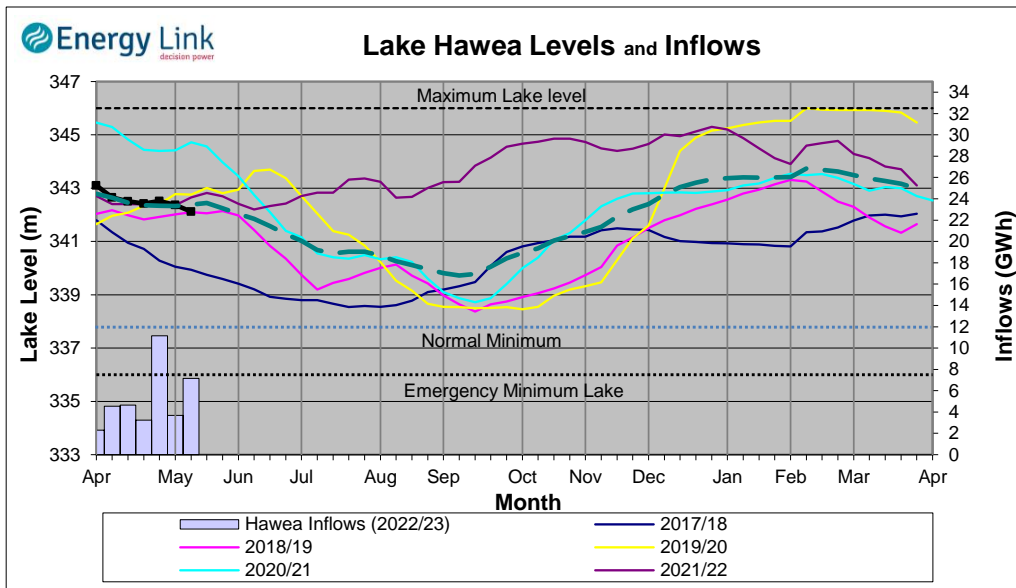
Inflows - Inflows into the Waitaki System increased 120.3% to 69 GWh.

Generation - Average Waikati generation decreased 10.4% to 929.7 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 16 cumecs while Waitaki River flows were lower than last week averaging 397.5 cumecs.

Clutha System



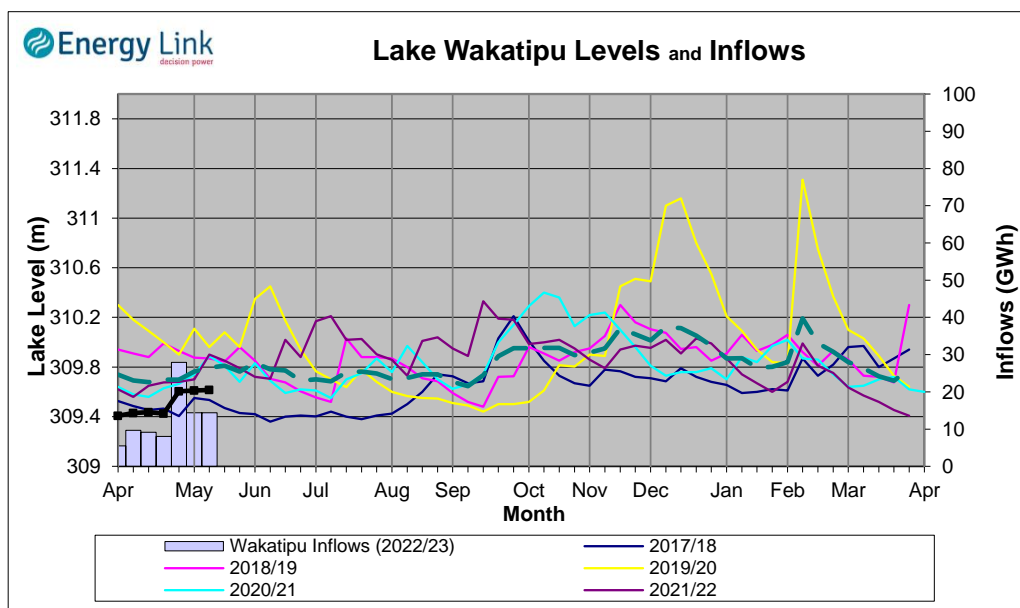
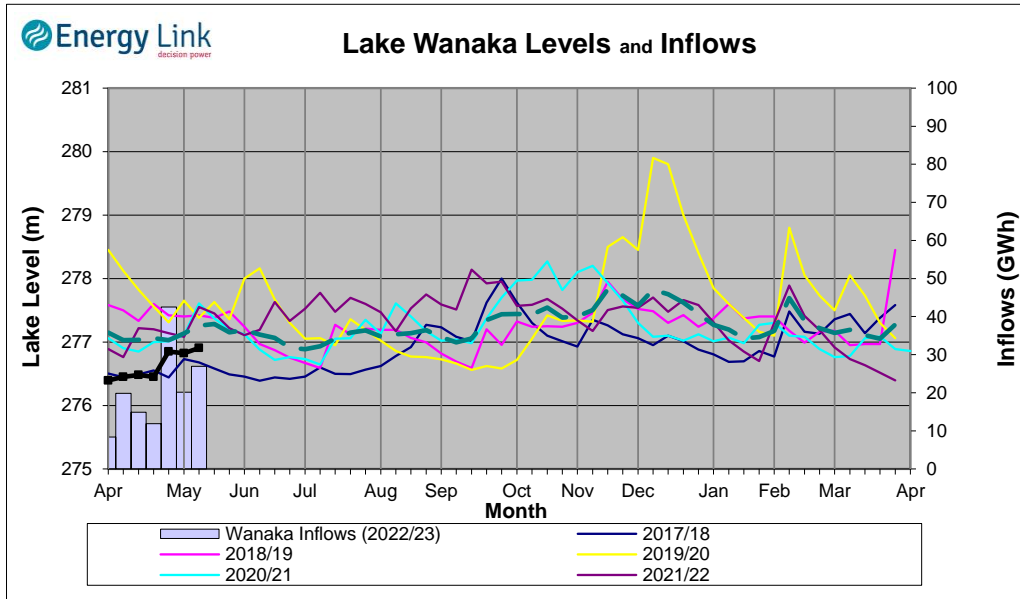
Lake Levels - Total storage for the Clutha System decreased 2.3% to 218 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 50.6%, 35.8% and 26.1% nominally full respectively.

Inflows - Total Inflows into the Clutha System 26.9% higher at 48 GWh.

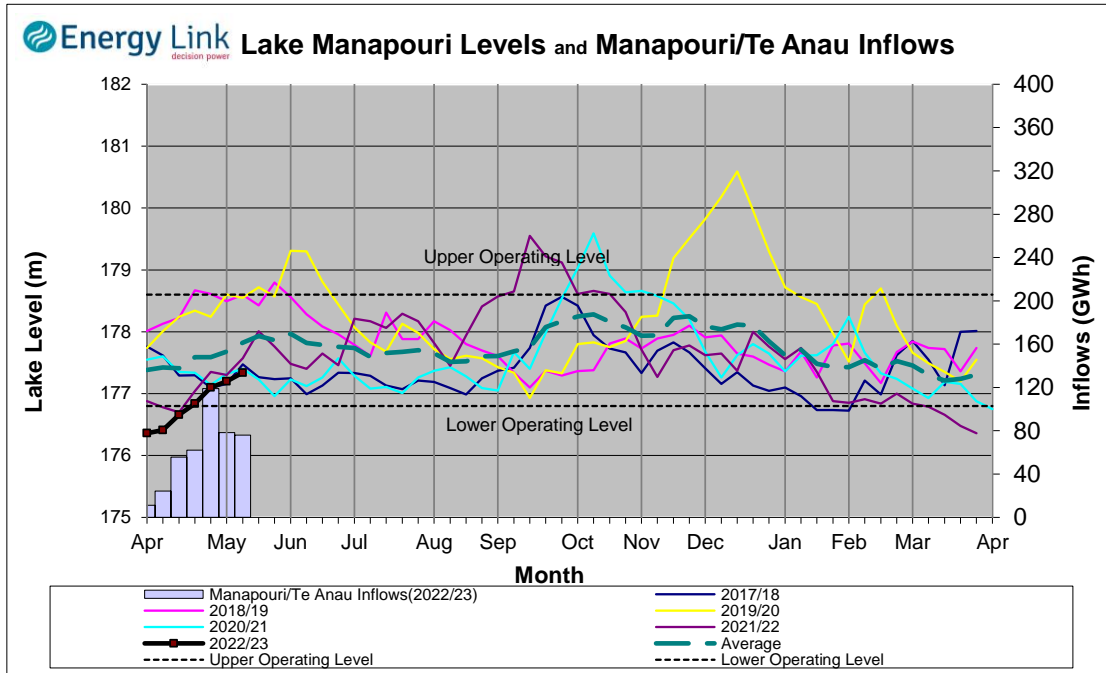
Generation - Average generation was 14% higher at 342 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 359.7 cumecs. This comprised of 106 cumecs from Lake Hawea, 147 cumecs from Lake Wanaka, 91 cumecs from Lake Wakatipu and 16 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 2.1% to 253 GWh with Lake Manapouri ending the week 53.7% nominally full and Lake Te Anau ending the week 60.3% nominally full.

Inflows - Total inflows into the Manapouri System decreased 3% to 76 GWh.

Generation - Average generation was 6.4% higher at 420 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 12.7 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'.

