



Thursday, 20 October 2022

Issue: 1331

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

Compiled by Energy Link Ltd.

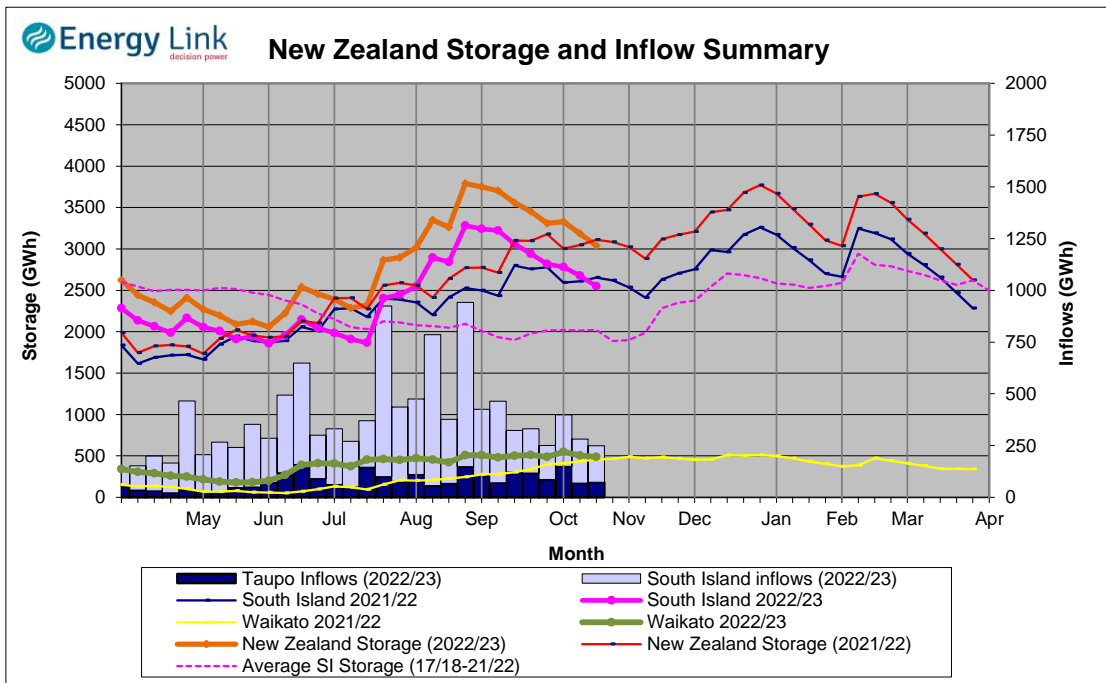
Storage Summary	South Island Controlled	South Island Uncontrolled	South Island Total	North Island Taupo	Total Storage
Current Storage (GWh)	2272	277	2550	489	3039
Storage Change (GWh)	-102	-27	-129	-16	-145

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)	2474	489	2963
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 145 GWh over the last week. South Island controlled storage decreased 4.3% to 2272 GWh; South Island uncontrolled storage decreased 8.7% to 277 GWh; with Taupo storage decreasing 3.2% to 489 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	202	319	2029	489	3039
Last Week	218	329	2131	506	3184
% Change	-7.5%	-3.0%	-4.8%	-3.2%	-4.6%
Inflow (GWh)					
This Week	47	44	85	73	250
Last Week	67	54	92	69	282
% Change	-30.0%	-18.5%	-7.1%	6.5%	-11.4%

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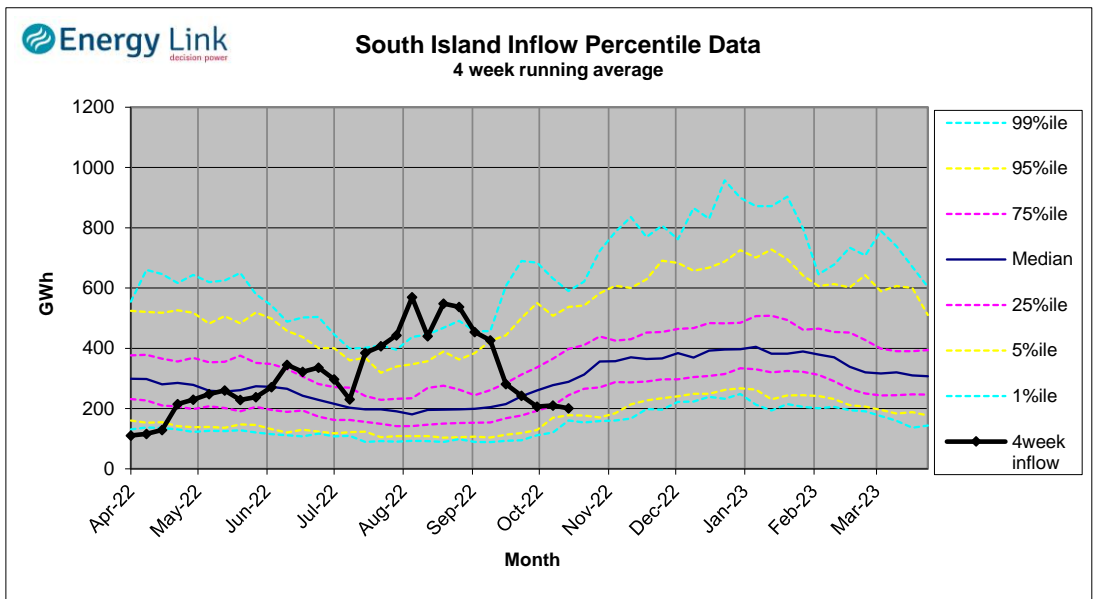
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change	
Manapouri	Manapouri	177.20	79	15		0 -2 -2 -28
	Te Anau	201.68	123			
Clutha	Wakatipu	309.66	31	131		
	Wanaka	276.98	45	174		
	Hawea	344.62	243	42		
Waitaki	Tekapo	708.42	629			
	Pukaki	529.22	1400			
Waikato	Taupo	357.05	489			

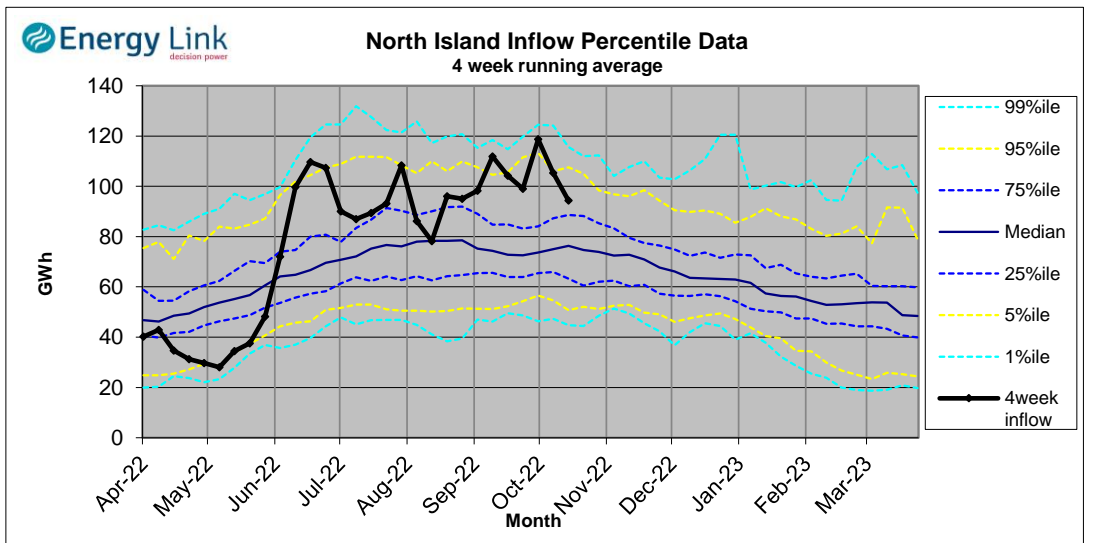
Inflow Summary

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.

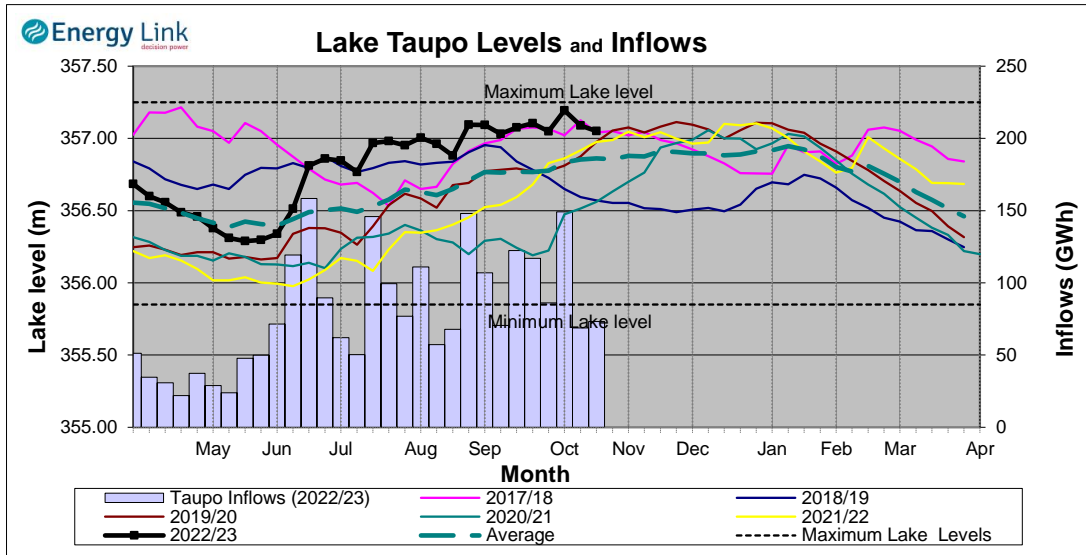
South Island Inflows - The past four weeks of S. I. inflows rank as the 14th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 15th wettest on record.



Waikato System

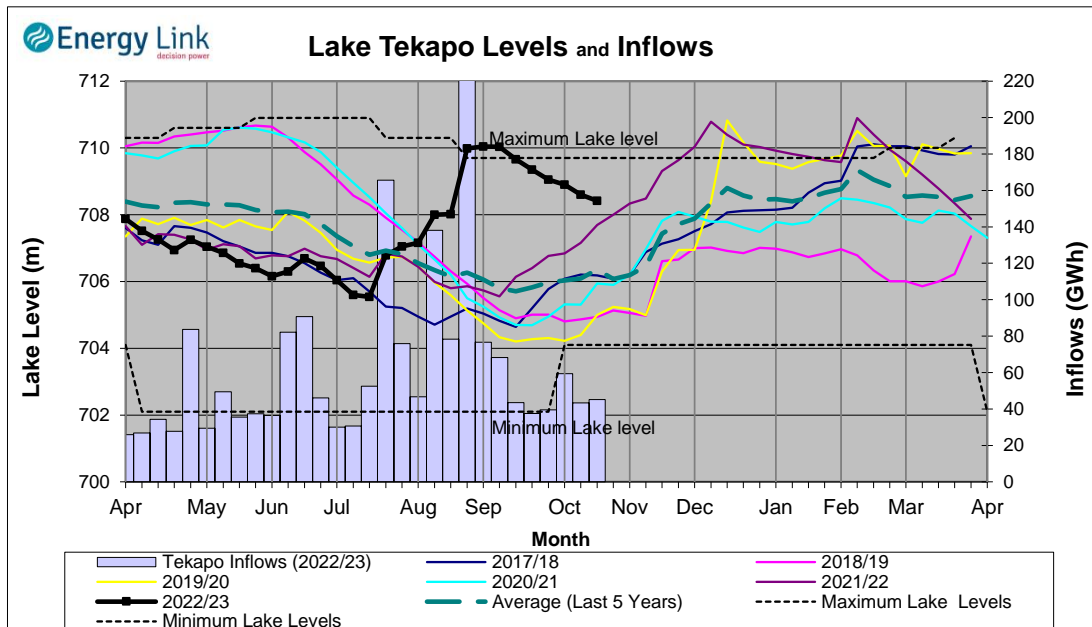


Lake Levels - Lake Taupo storage fell to 85.7% of nominal full at 489 GWh.

Inflows - Inflows increased 6.5% to 73 GWh.

Generation - Average generation decreased 3.5% to 585.7 MW.

Tekapo



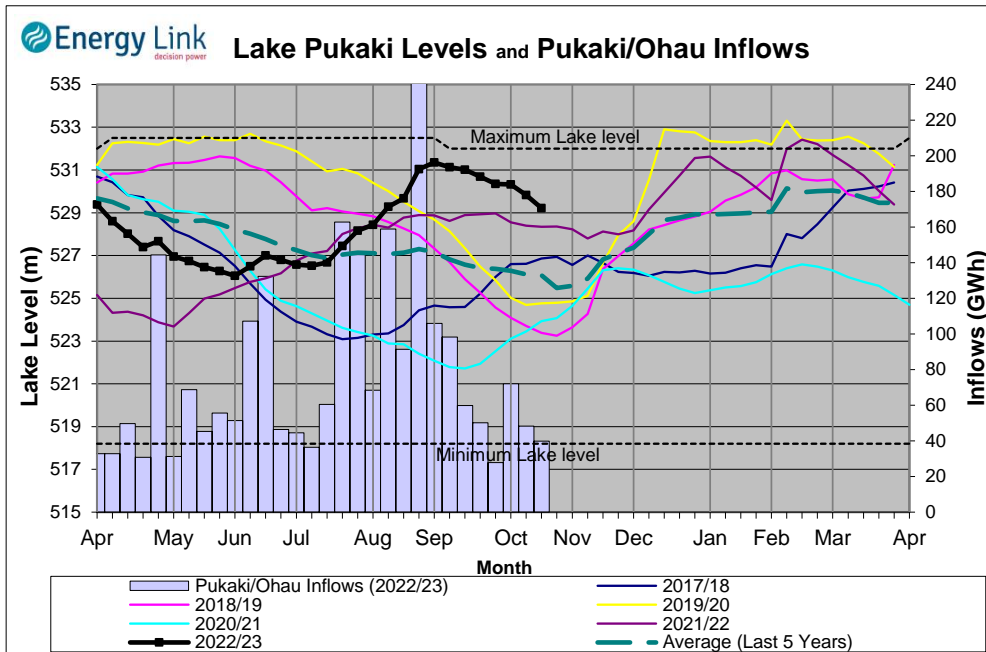
Lake Levels - Lake Tekapo ended the week 87% nominally full with storage falling to 629 GWh.

Inflows - Inflows into tekapo increased 4.4% to 45 GWh.

Generation - Average Tekapo generation decreased 13.3% to 139.5 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 79% nominally full with storage falling to 1400 GW

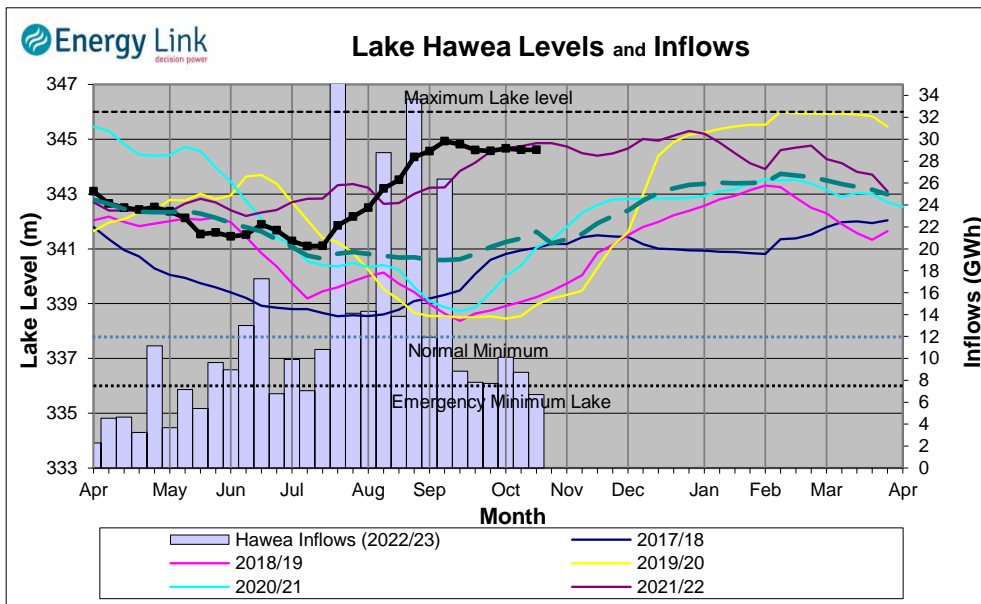
Inflows - Inflows into the Waitaki System decreased 17.4% to 40 GWh.

Generation - Average Waitaki generation increased 5.4% to 1139.3 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 28 cumecs while Waitaki River flows were higher than last week averaging 504.3 cumecs.

Clutha System



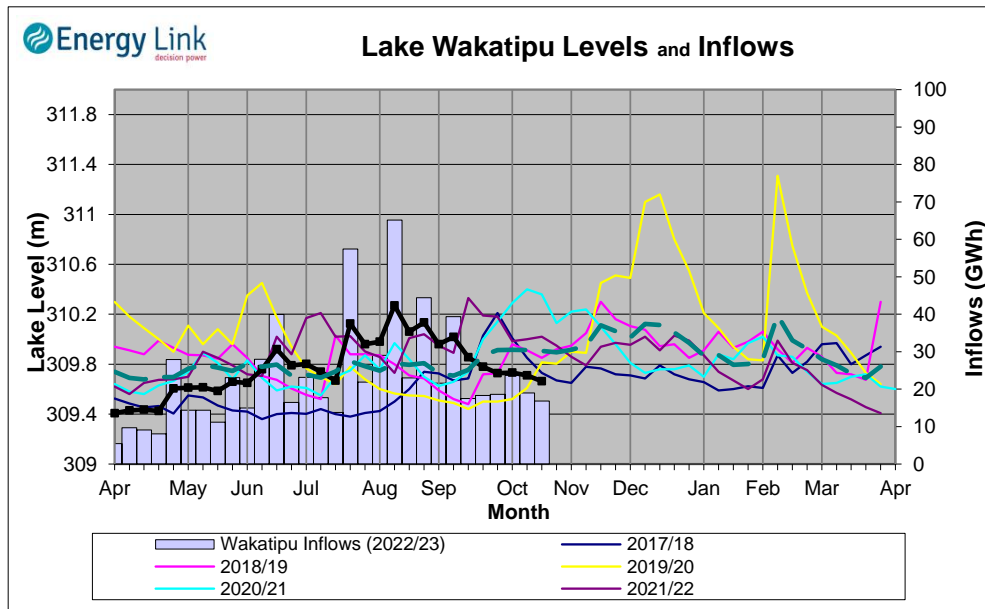
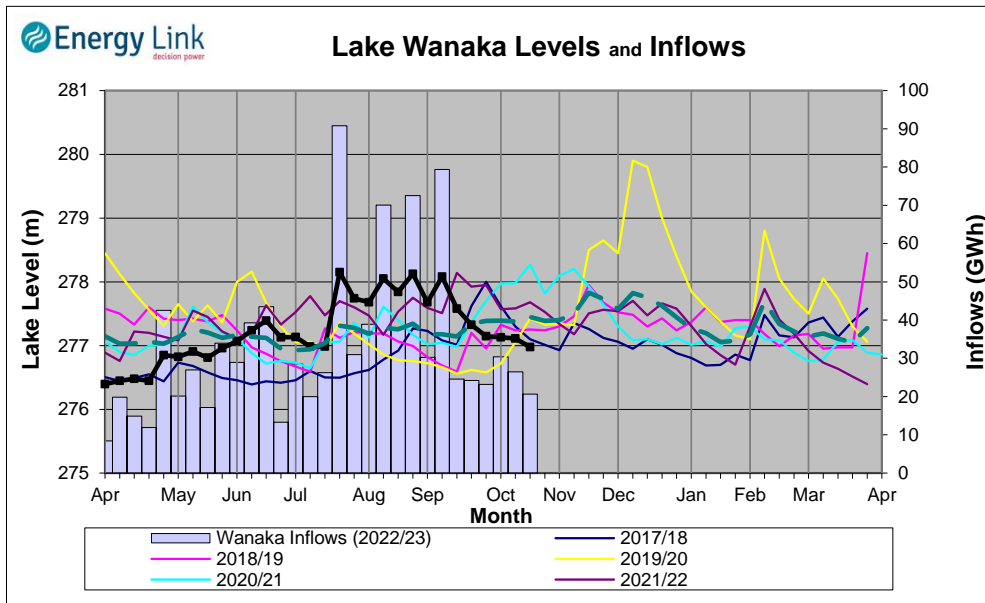
Lake Levels - Total storage for the Clutha System decreased 3% to 319 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 82.3%, 39% and 29.5% nominally full respectively.

Inflows - Total Inflows into the Clutha System 18.5% lower at 44 GWh.

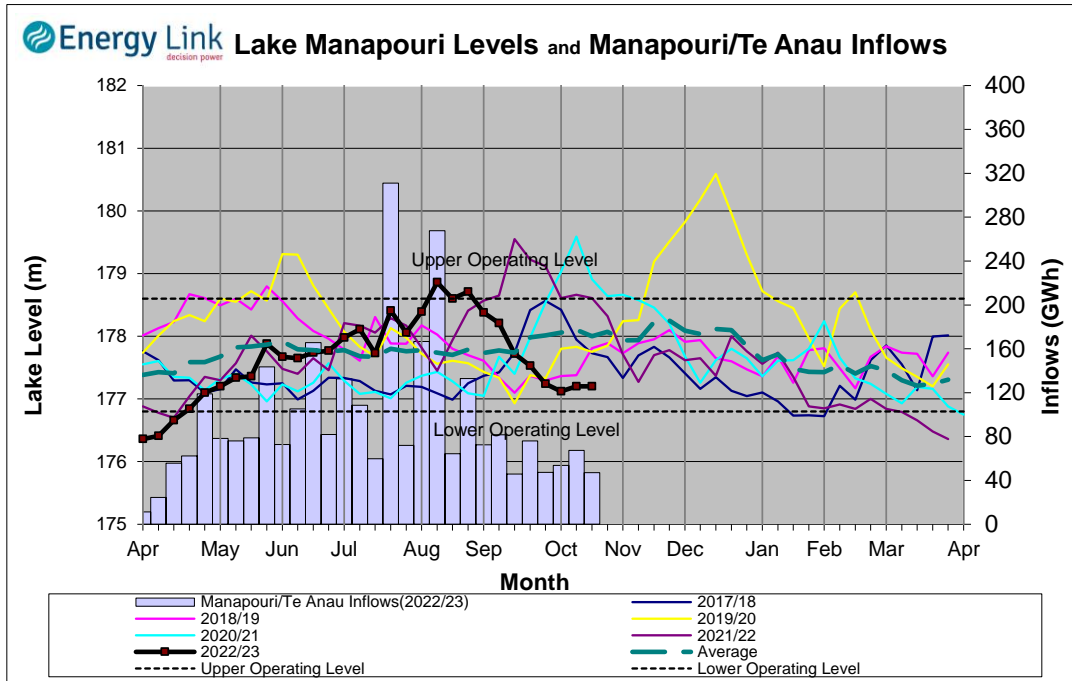
Generation - Average generation was 4.1% lower at 385 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 397.6 cumecs. This comprised of 42 cumecs from Lake Hawea, 174 cumecs from Lake Wanaka, 131 cumecs from Lake Wakatipu and 51 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 7.5% to 202 GWh with Lake Manapouri ending the week 48.6% nominally full and Lake Te Anau ending the week 44.6% nominally full.

Inflows - Total inflows into the Manapouri System decreased 30% to 47 GWh.

Generation - Average generation was 5.2% lower at 378 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 14.7 cumecs.

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

