



Thursday, 26 March 2020

Issue: 1197

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)	2719	284	3003	190	3194
Storage Change (GWh)	-97	-2	-100	-30	-130

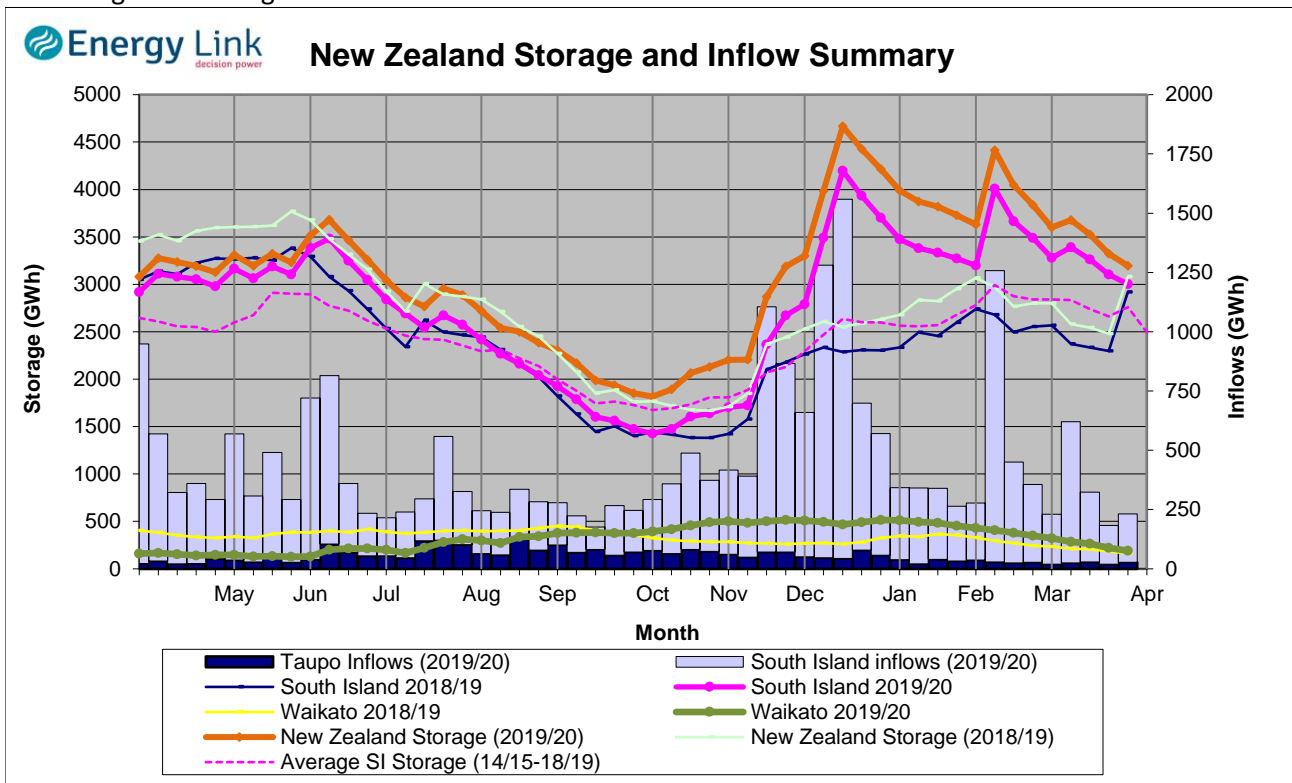
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2925	190	3116

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 129.8 GWh over the last week. South Island controlled storage decreased 3.5% to 2719 GWh; South Island uncontrolled storage decreased 0.9% to 284 GWh; with Taupo storage decreasing 13.7% to 190 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	206	353	2444	190	3194
Last Week	190	386	2527	221	3324
% Change	8.6%	-8.6%	-3.3%	-13.7%	-3.9%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	68	35	101	27	231
Last Week	32	33	97	20	183
% Change	110.1%	3.7%	4.6%	35.1%	26.5%

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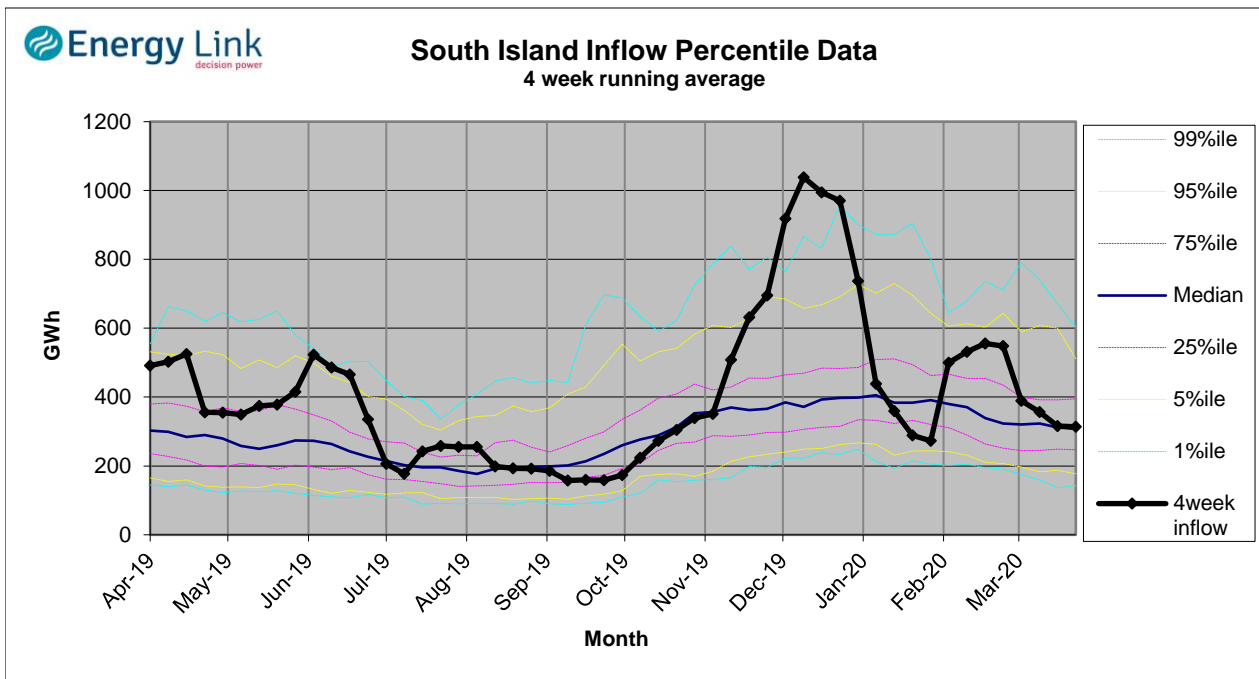
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.55	100	21	4
	Te Anau	201.57	106		
Clutha	Wakatipu	309.64	29	119	-26
	Wanaka	277.06	49	193	
	Hawea	345.46	275	122	
Waitaki	Tekapo	709.84	784		-57
	Pukaki	531.14	1661		
Waikato	Taupo	356.32	190		74

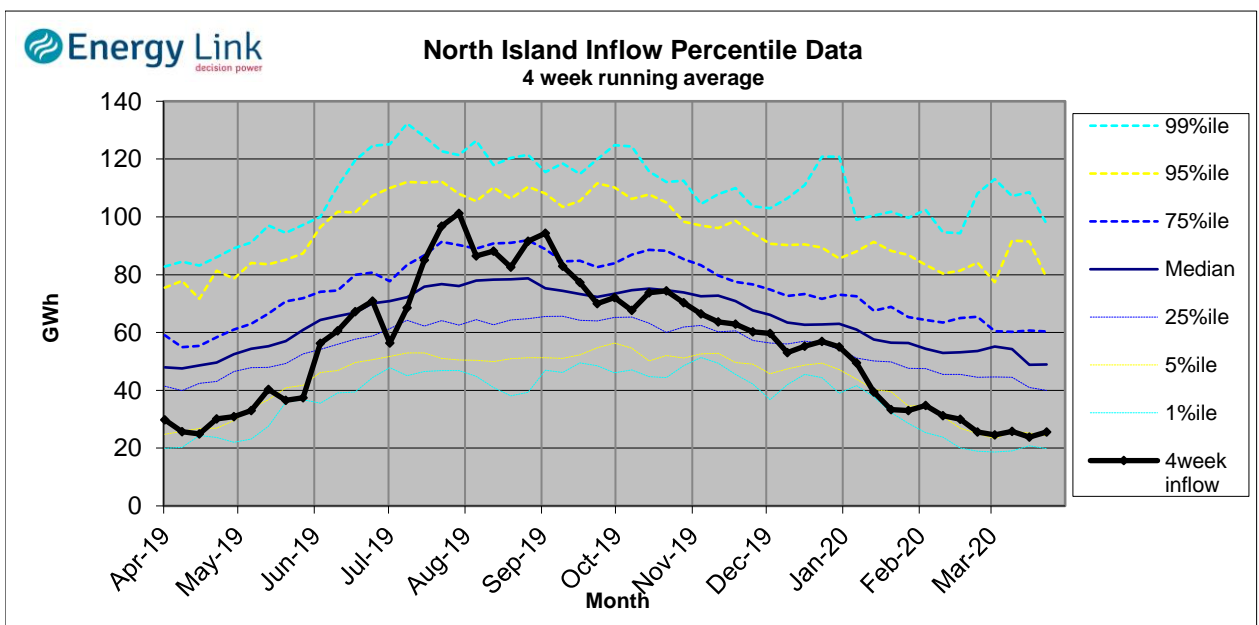
Inflow Summary

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.

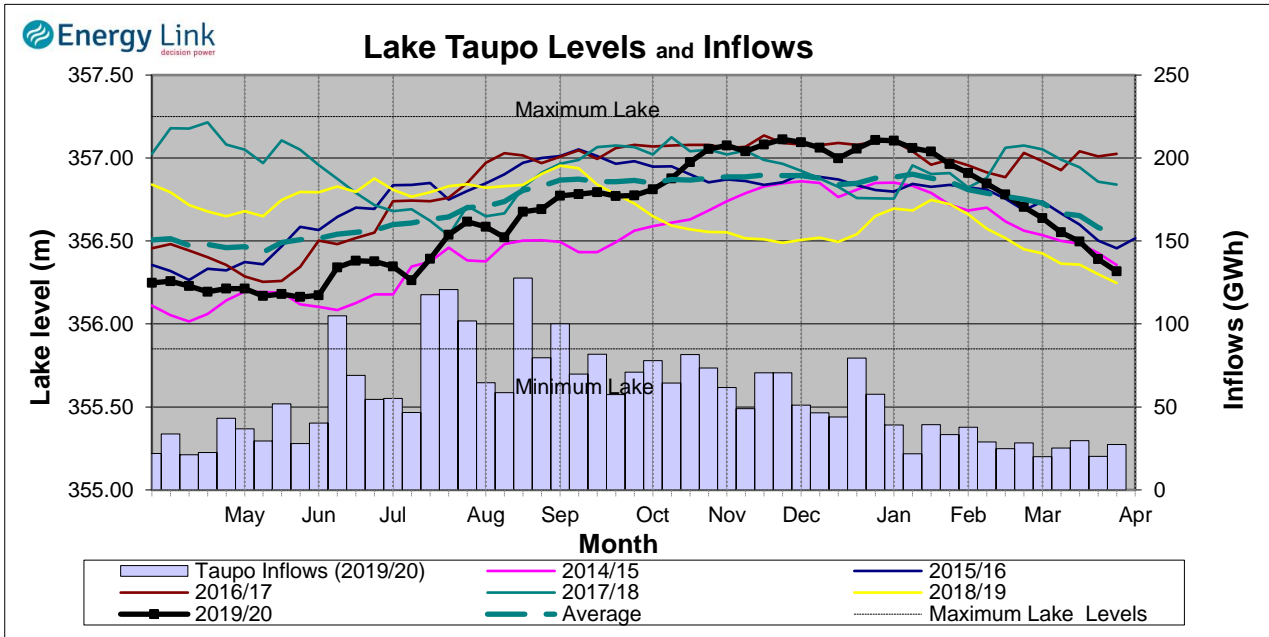
South Island Inflows - The past four weeks of S. I. inflows rank as the 42nd wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 7th driest on record.



Waikato System

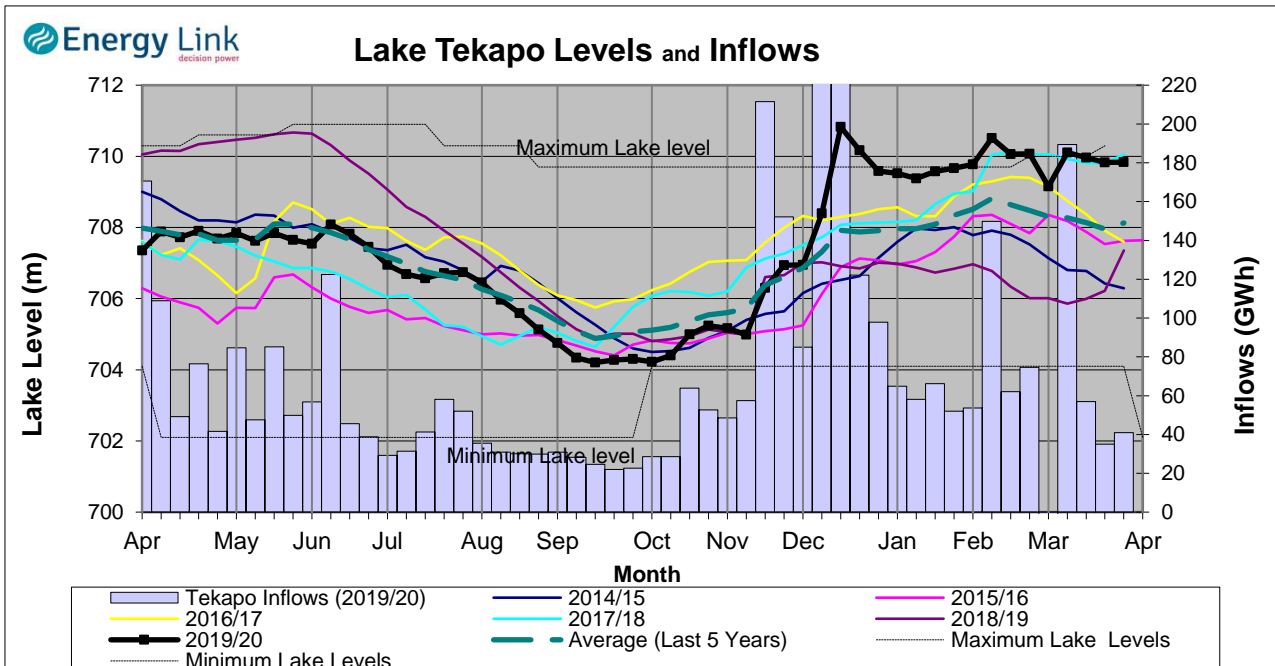


Lake Levels - Lake Taupo storage fell to 33.4% of nominal full at 190 GWh.

Inflows - Inflows increased 35.1% to 27 GWh.

Generation - Average generation decreased 7.4% to 375.5 MW.

Tekapo



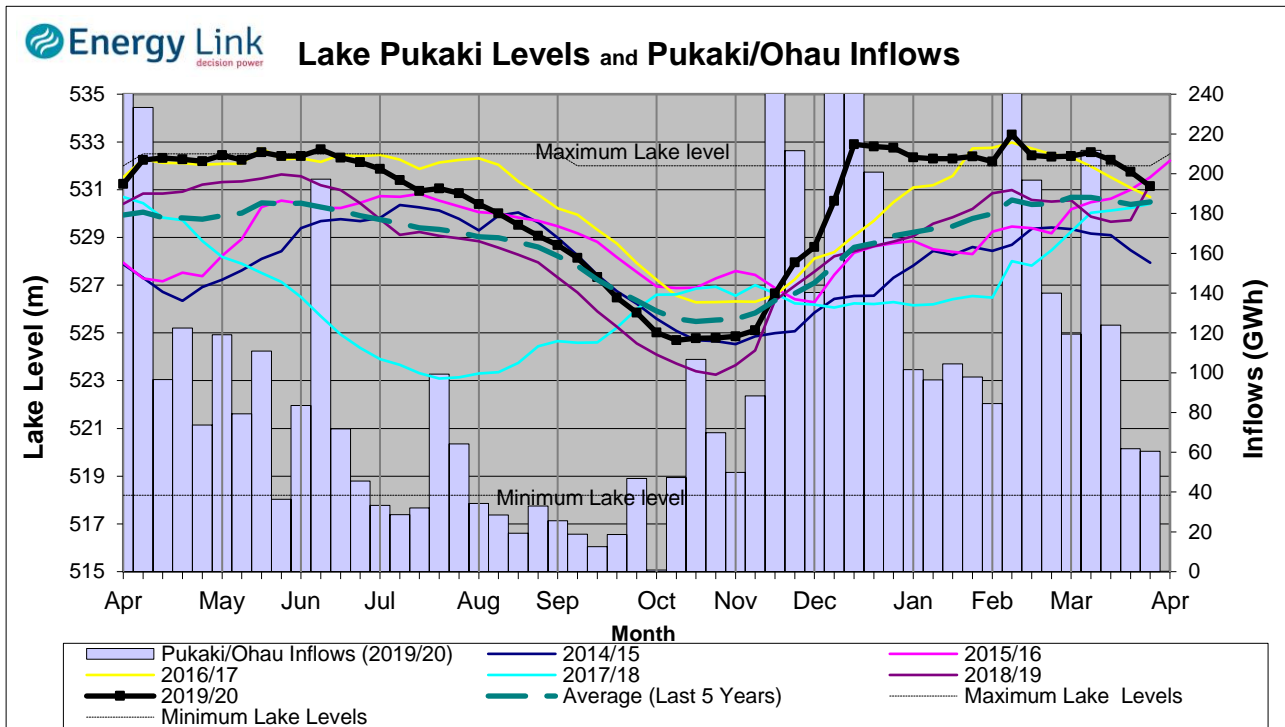
Lake Levels - Lake Tekapo ended the week 104% nominally full with storage increasing to 784 GWh.

Inflows - Inflows into tekapo increased 16.6% to 41 GWh.

Generation - Average Tekapo generation decreased 1.2% to 71.9 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 93% nominally full with storage falling to 1661 GWh.

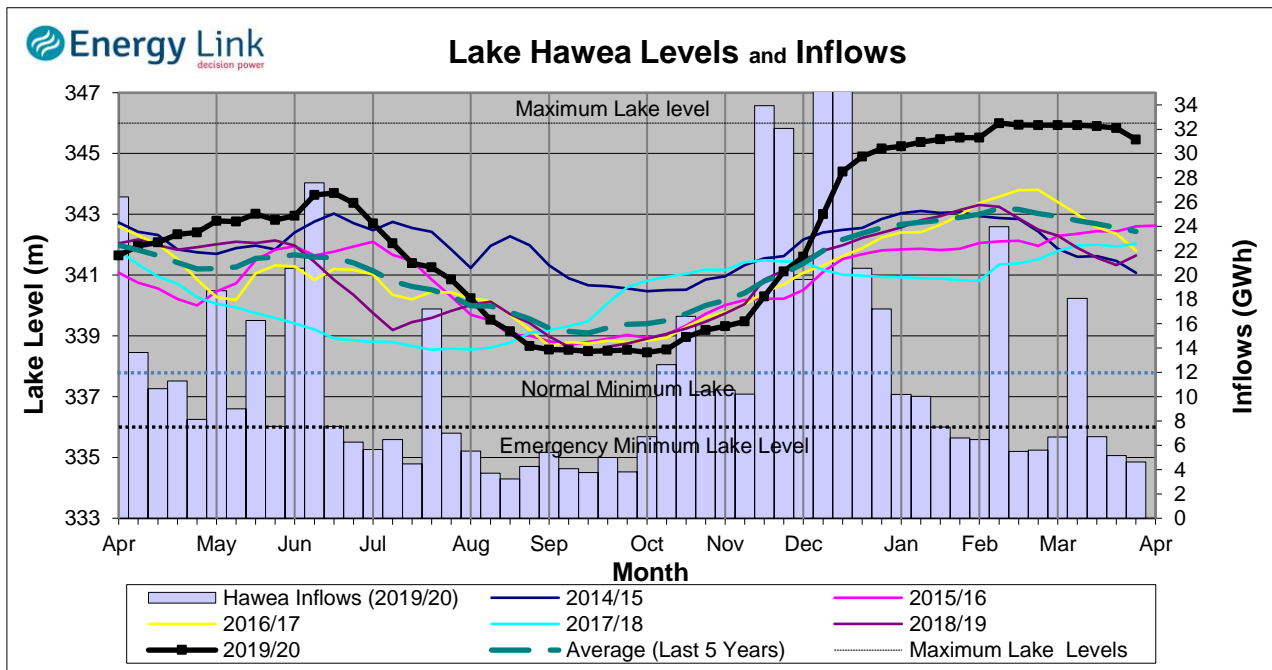
Inflows - Inflows into the Waitaki System decreased 2.2% to 60 GWh.

Generation - Average Waikati generation increased 7.4% to 1115.4 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 13.2 cumecs while Waitaki River flows were higher than last week averaging 463.9 cumecs.

Clutha System



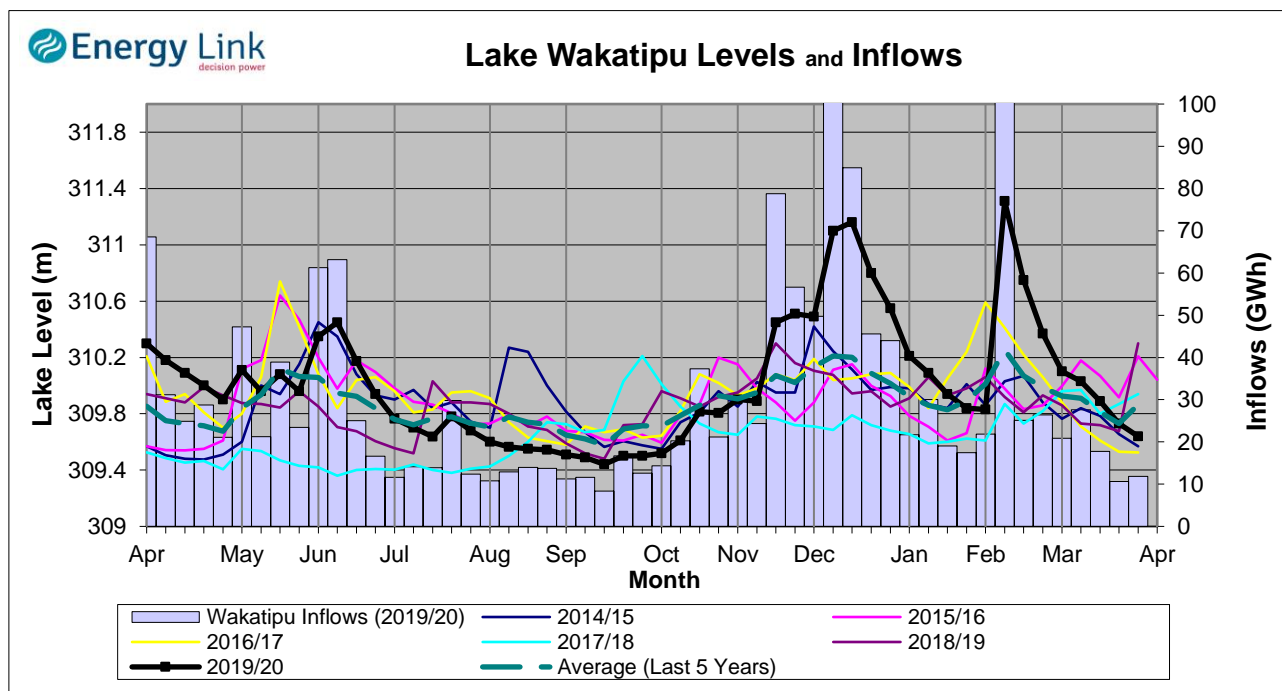
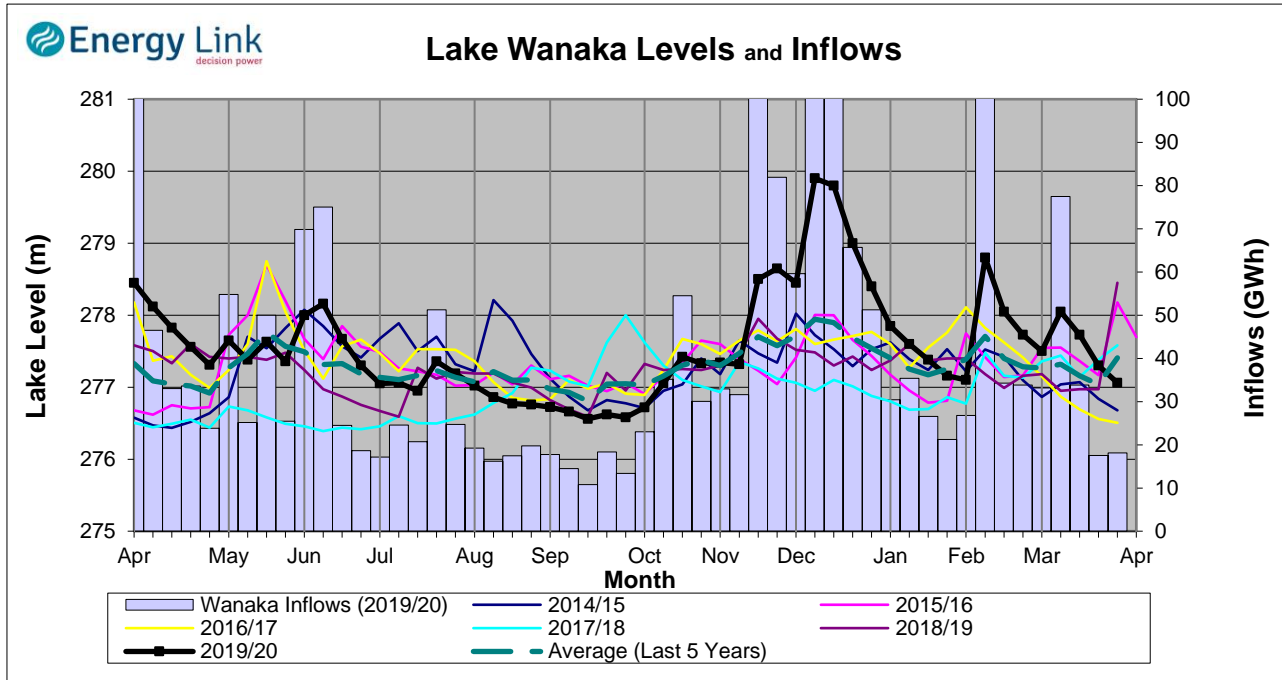
Lake Levels - Total storage for the Clutha System decreased 8.6% to 353 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 93.1%, 42.5% and 27.9% nominally full respectively.

Inflows - Total Inflows into the Clutha System 3.7% higher at 35 GWh.

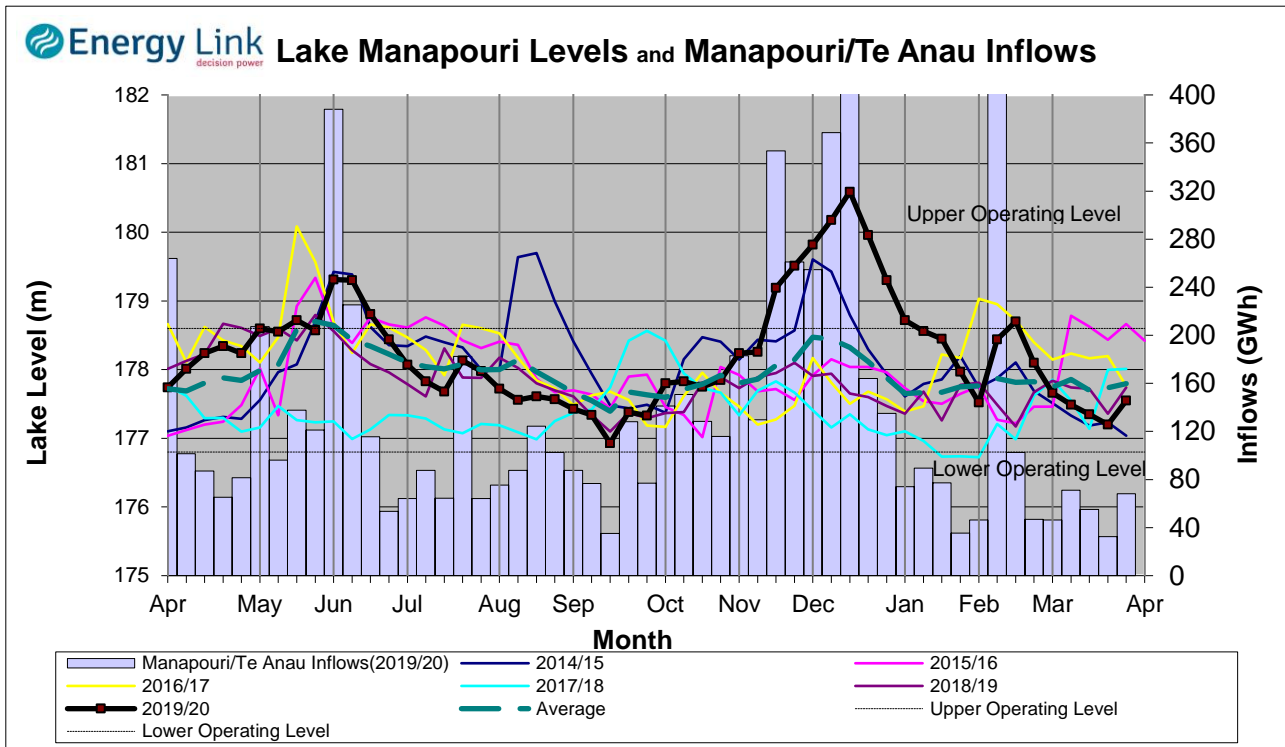
Generation - Average generation was 6% lower at 413 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 453.3 cumecs. This comprised of 122 cumecs from Lake Hawea, 193 cumecs from Lake Wanaka, 119 cumecs from Lake Wakatipu and 19 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 8.6% to 206 GWh with Lake Manapouri ending the week 61.4% nominally full and Lake Te Anau ending the week 38.6% nominally full.

Inflows - Total inflows into the Manapouri System increased 110.1% to 68 GWh.

Generation - Average generation was 27.2% lower at 309 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 20.8 cumecs.

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

