

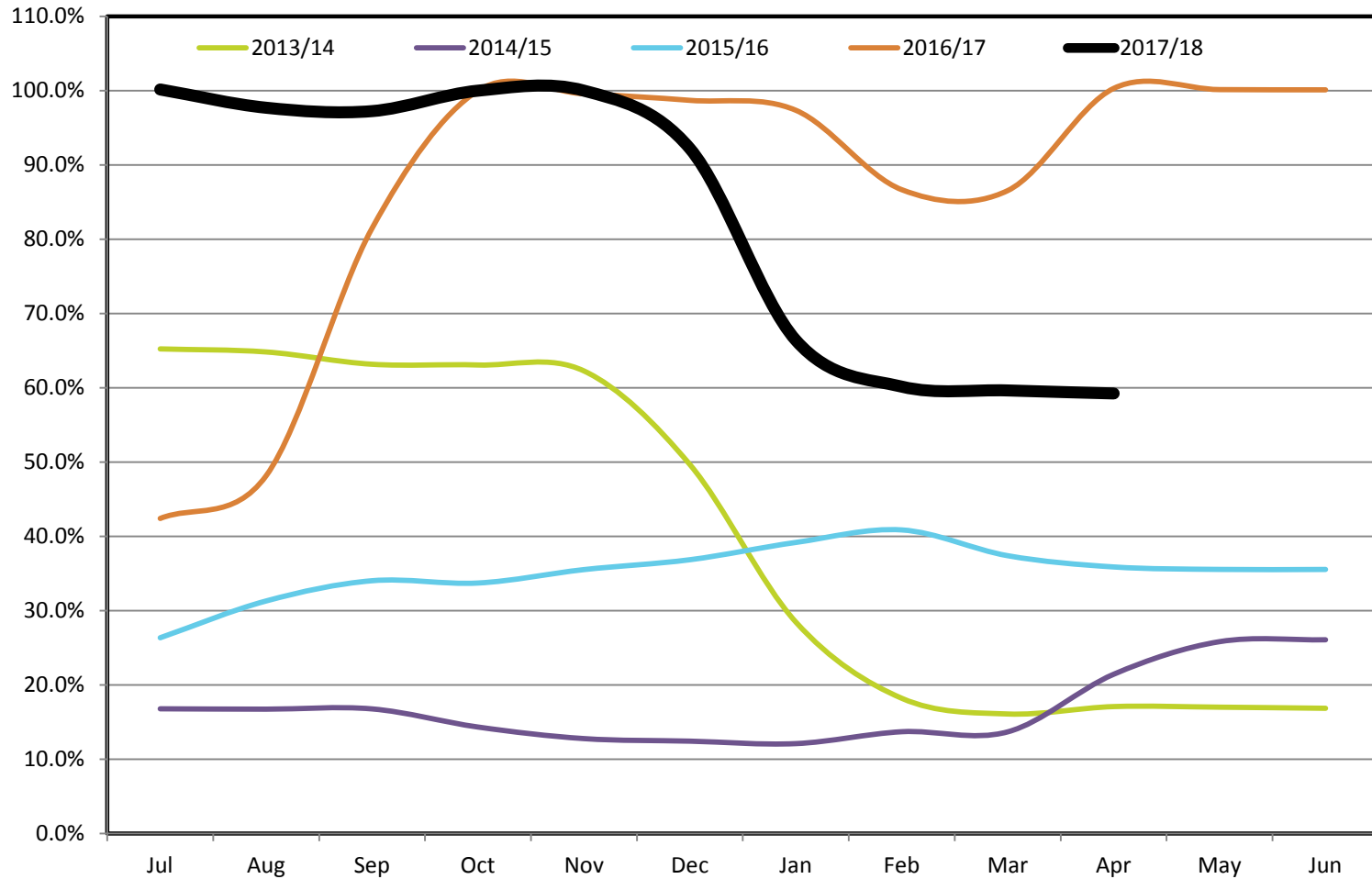
Water Operations Report

Border Rivers

June 2018

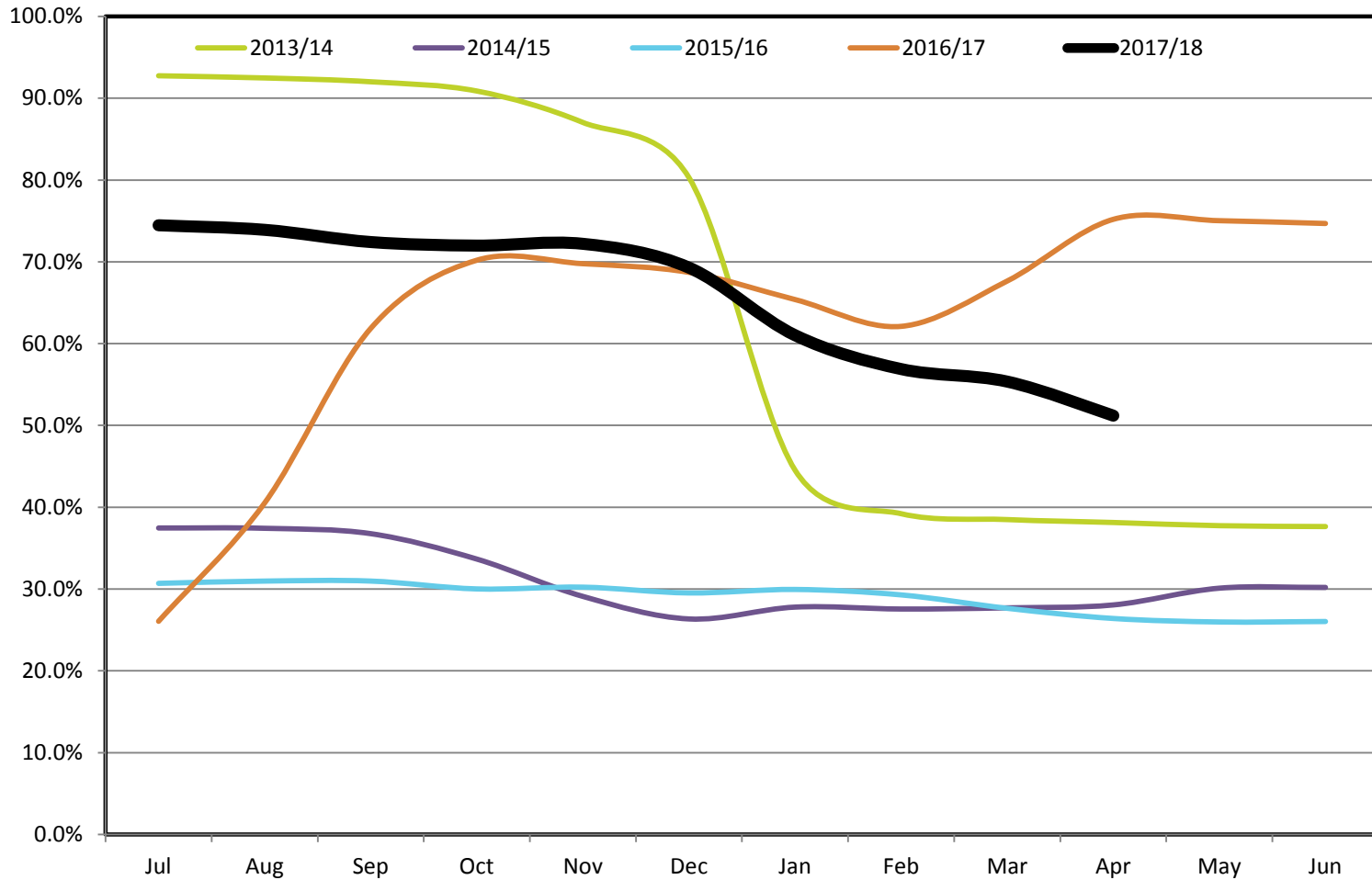
Dam Storages

Pindari Dam Storage



Dam Storages

Glenlyon Dam Storage



Supplementary Access



4% was made available for extraction in event one in July 2017.

	Booba Sands	Glenarbon	Holdfast	Boggabilla Weir
Flow				
30-Jun-17	14	264	263	240
1-Jul-17	19	270	271	297
2-Jul-17	18	268	4,884	405
3-Jul-17	17	259	4,577	5,228
4-Jul-17	16	260	2,812	4,770
5-Jul-17	17	277	2,459	2,861
6-Jul-17	17	296	1,943	2,310
7-Jul-17	17	291	1,551	2,097
8-Jul-17	19	287	1,041	1,911
9-Jul-17	19	291	772	1,406
10-Jul-17	19	282	759	1,105
Total	192	3,046	21,332	19,177

Boggabilla Weir/Goondiwindi Flow	
Total flow inside triggers	19,177
Add extraction upstream of Boggabilla weir	455
Subtract regulated orders d/s Boggabilla	0
Fill Boggabilla weir	0
Total	19,632
Delivery loss	6,282
Total	13,350
Environment Share	3,337
Available Volume to be shared	10,012
Available to States	5,006

Supplementary Access



4.5% was made available for extraction in event two in October 2017.

	Booba Sands	Glenarbon	Holdfast	Boggabilla Weir
	Flow			
13-Oct-17	24	231	206	374
14-Oct-17	17	311	594	609
15-Oct-17	11	382	8529	2593
16-Oct-17	8	619	3696	7130
17-Oct-17	29	394	3740	3484
18-Oct-17	68	294	3180	4417
19-Oct-17	54	212	2115	3677
20-Oct-17	49	162	1518	2594
21-Oct-17	37	133	1149	1882
22-Oct-17	28	166	920	1457
23-Oct-17	23	273	772	1149
Total	376	3350	26567	23184

Boggabilla Weir/Goondiwindi Flow	
Total flow inside triggers	23,184
Add extraction upstream of Boggabilla weir	956
Subtract regulated orders d/s Boggabilla	289
Fill Boggabilla weir	0
Total	23,851
Delivery loss	7,871
Total	15,980
Environment Share	3,995
Available Volume to be shared	11,985
Available to States	5,993

2017/18 Water Availability for Border Rivers



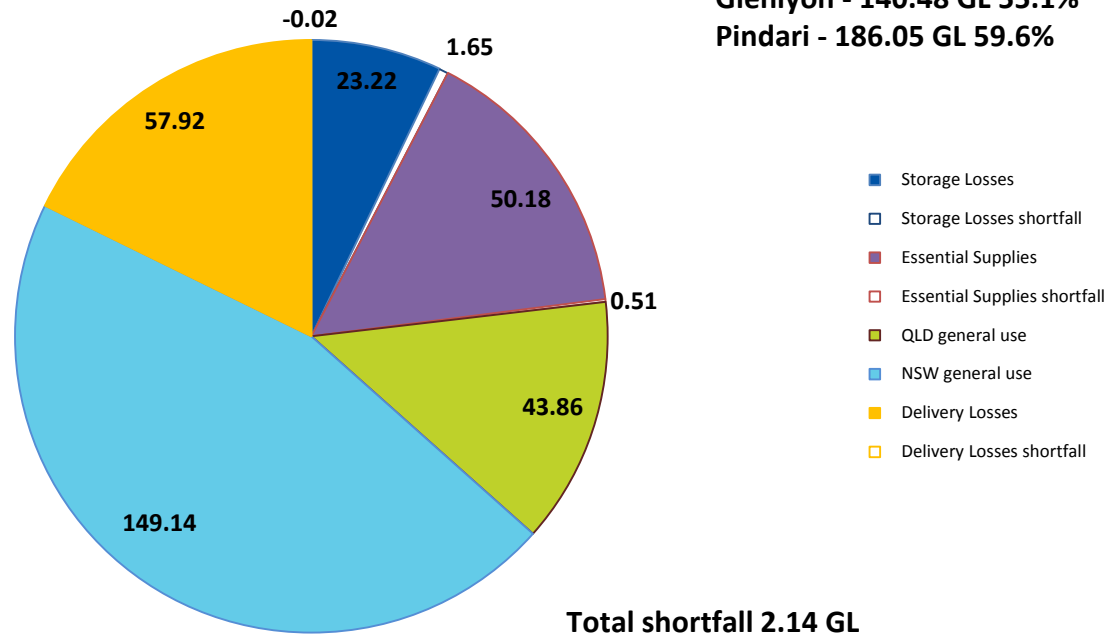
Licence Category	Share Component	Balance	AWD Volume	Carryover In	Allocation Assignments In	Allocation Assignments Out	Usage
DOMESTIC AND STOCK	850	220.9	850	0	0	0	629.1
DOMESTIC AND STOCK [DOMESTIC]	51	48	51	0	0	0	3
DOMESTIC AND STOCK [STOCK]	100	64.7	100	0	0	0	31.3
LOCAL WATER UTILITY	640	193.8	640	0	0	0	446.2
REGULATED RIVER (GENERAL SECURITY A)	22,007	5,461.7	22,007	990.2	128.2	2,902	13,600.5
REGULATED RIVER (GENERAL SECURITY B)	241,211	135,381.1	47,325.8	208,594.8	6,669.9	9,716.2	103,671.9
REGULATED RIVER (HIGH SECURITY)	1,500	232.7	1,500	0	0	380	887.3
SUPPLEMENTARY WATER	120,001	111,099.2	120,001	0	6,899.2	6,899.2	8,901.8
INTERSTATE TEMP TRADE	0	460	0	0	5,964.5	0	5,504.5
Gand Total	386,360	253,162.1	192,474.8	209,585	19,535.8	19,535.8	133,675.6

General Security Available Water Determination		
Date	AWD ML/Share	Total %
1-Jul-17	0.08	8%
15-Aug-17	0.031	11.1%
24-Nov-17	0.036	14.7%
9-Jan-18	0.0113	15.83%
31-Jan-18	0.0379	19.62%

Water Availability for Border Rivers 2017/18



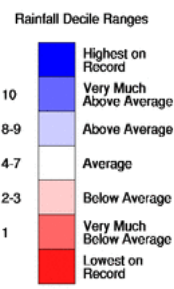
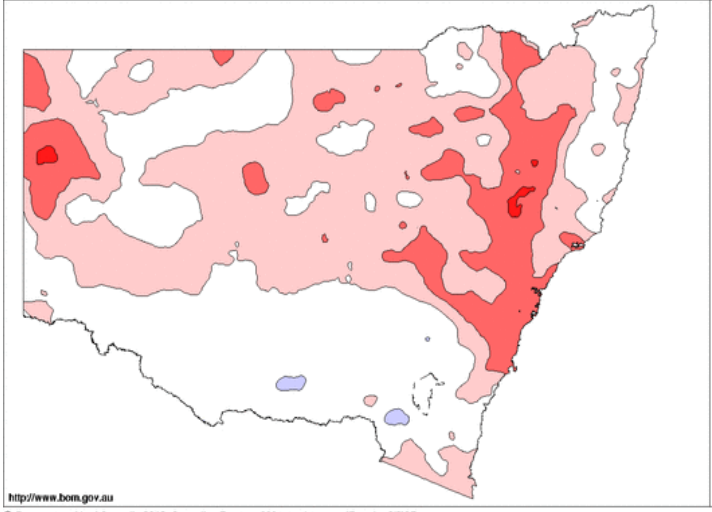
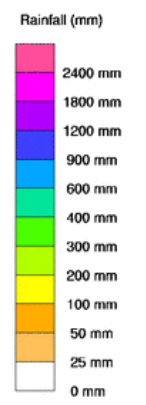
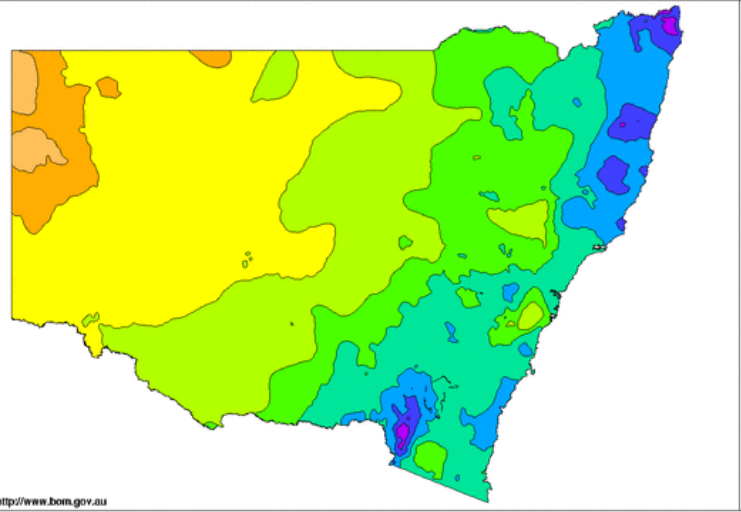
Border Rivers - storage breakdown (GL) 1 April 2018



9 Month Rainfall

New South Wales Rainfall totals (mm) 1 July 2017 to 31 March 2018
Australian Bureau of Meteorology

New South Wales Rainfall Deciles 1 July 2017 to 31 March 2018
Distribution Based on Gridded Data
Australian Bureau of Meteorology



<http://www.bom.gov.au>
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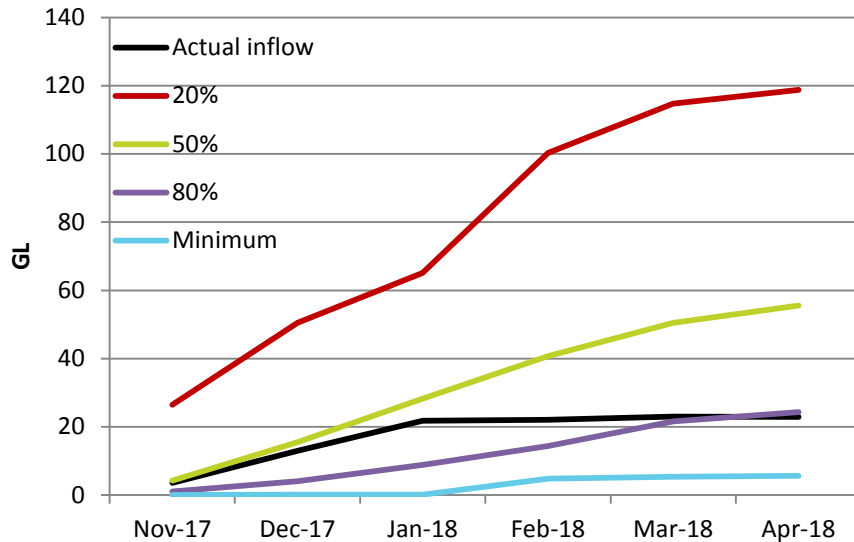
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Pindari Dam Inflows



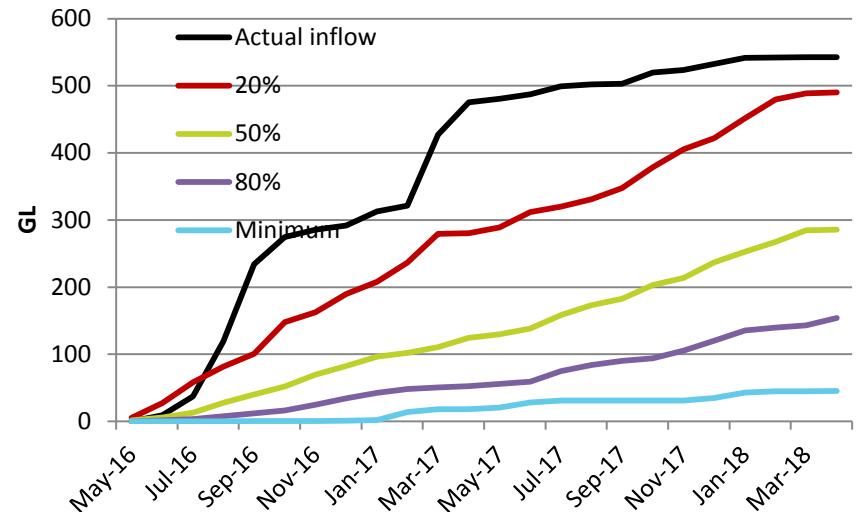
Pindari past 6 months inflows/statistical inflows



Inflows are consistent with rainfall over the past 6 month period. Actual inflow for the 6 months is 23 GL just below the 80th percentile inflows (24GL); while the minimum is 6GL.

Inflows are consistent with rainfall over the past 24 month period. Actual inflow for the 24 months is 542GL above the 20th percentile (490 GL); while the minimum is 45GL.

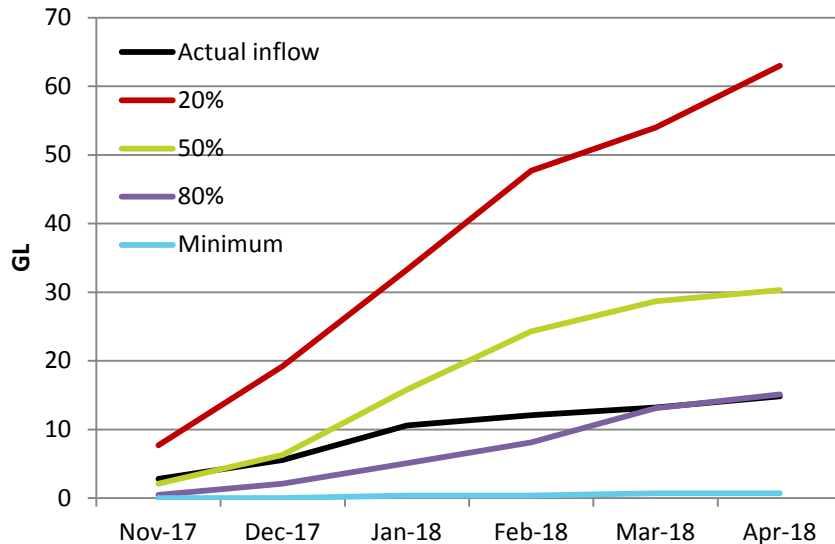
Pindari past 24 months inflows/statistical inflows



Glenlyon Dam Inflows



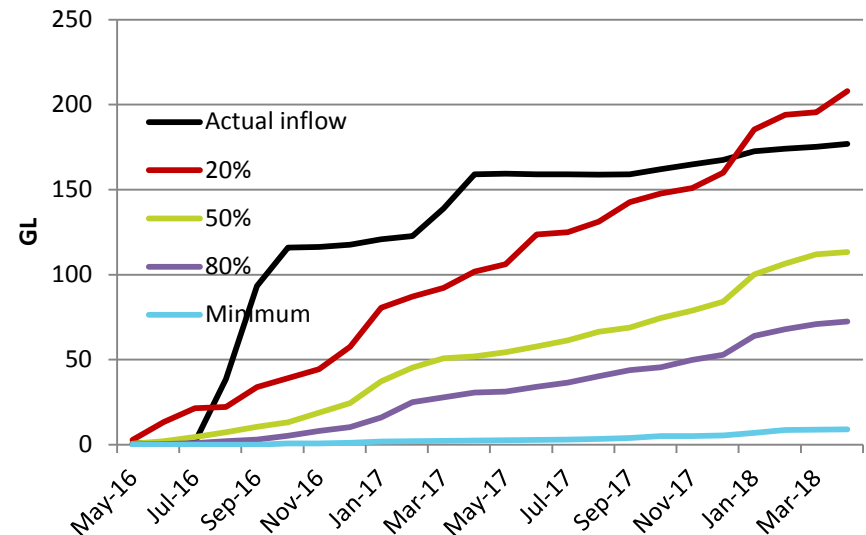
Glenlyon past 6 months inflows/statistical inflows



Inflows are consistent with rainfall over the past 6 month period. Actual inflow for the 6 months is 14GL in line with 80th percentile inflows (15GL); while the minimum is 1GL.

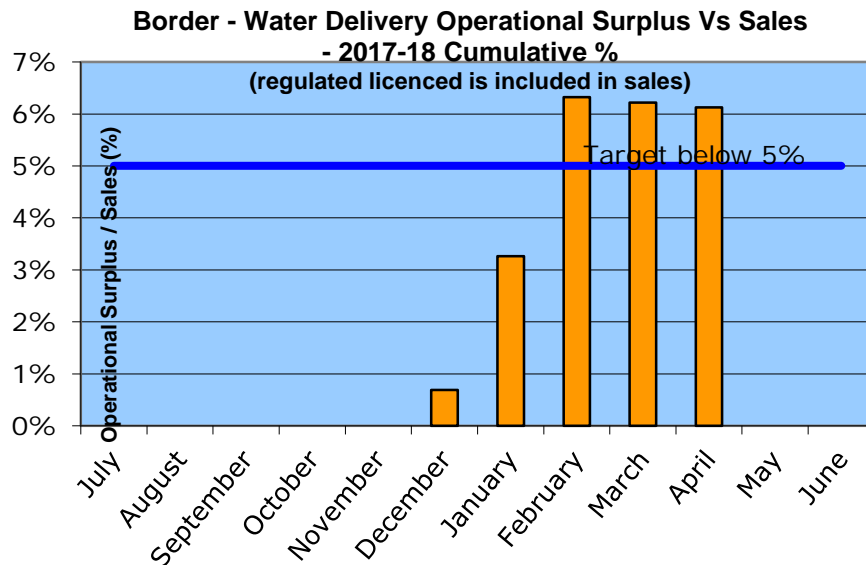
Inflows are consistent with rainfall over the past 24 month period. Actual inflow for the 24 months is 177GL inline with 30th percentile (169GL) while the minimum is 9GL.

Glenlyon past 24 months inflows/statistical inflows



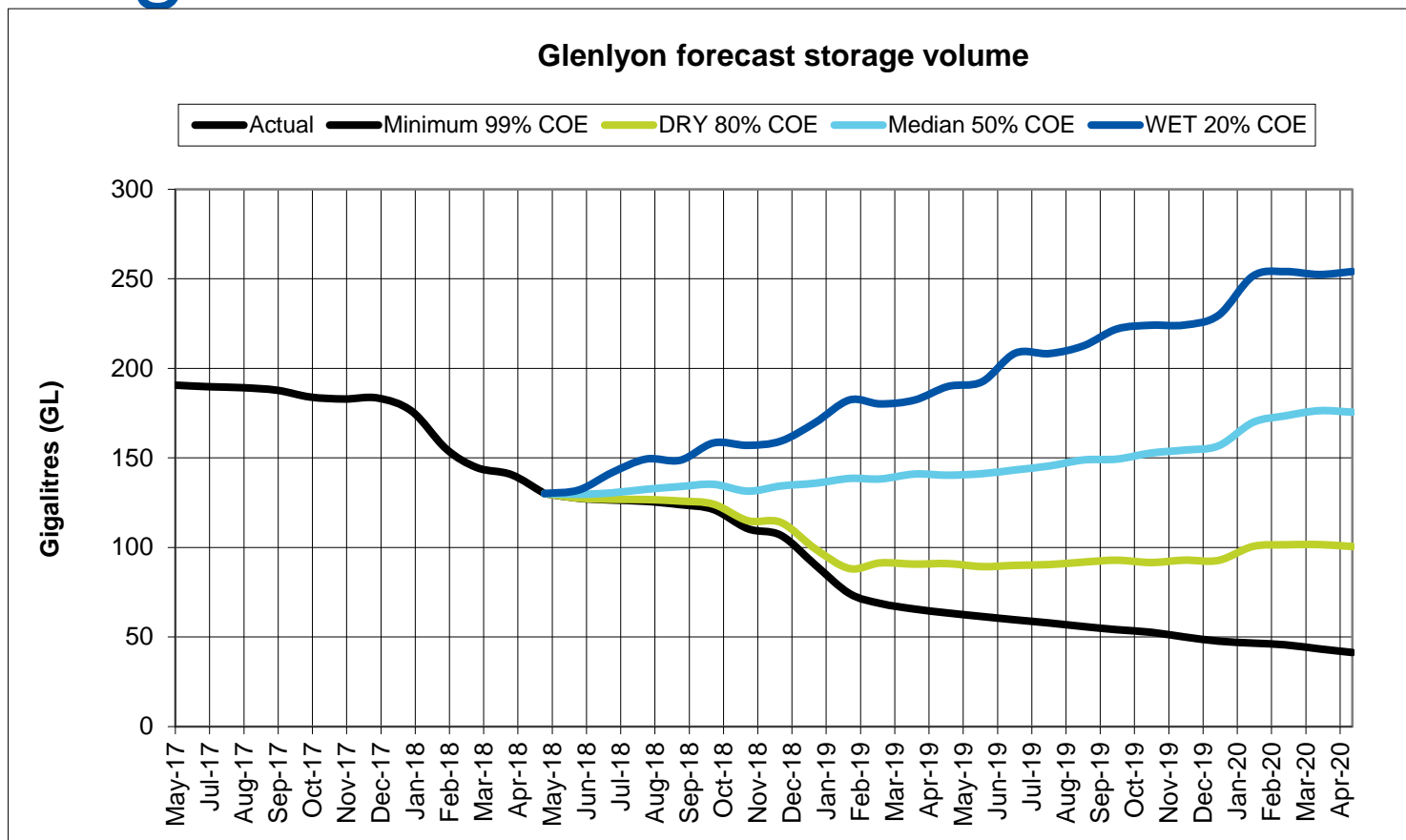
Operational Loss

Operational surplus is water above that which could reasonably be expected (*flow about 20ML/day*) to pass the last extraction point on each given river/creek being supplied with regulated flow (*dam releases and controlled tributary inflows – not supplementary flows*).



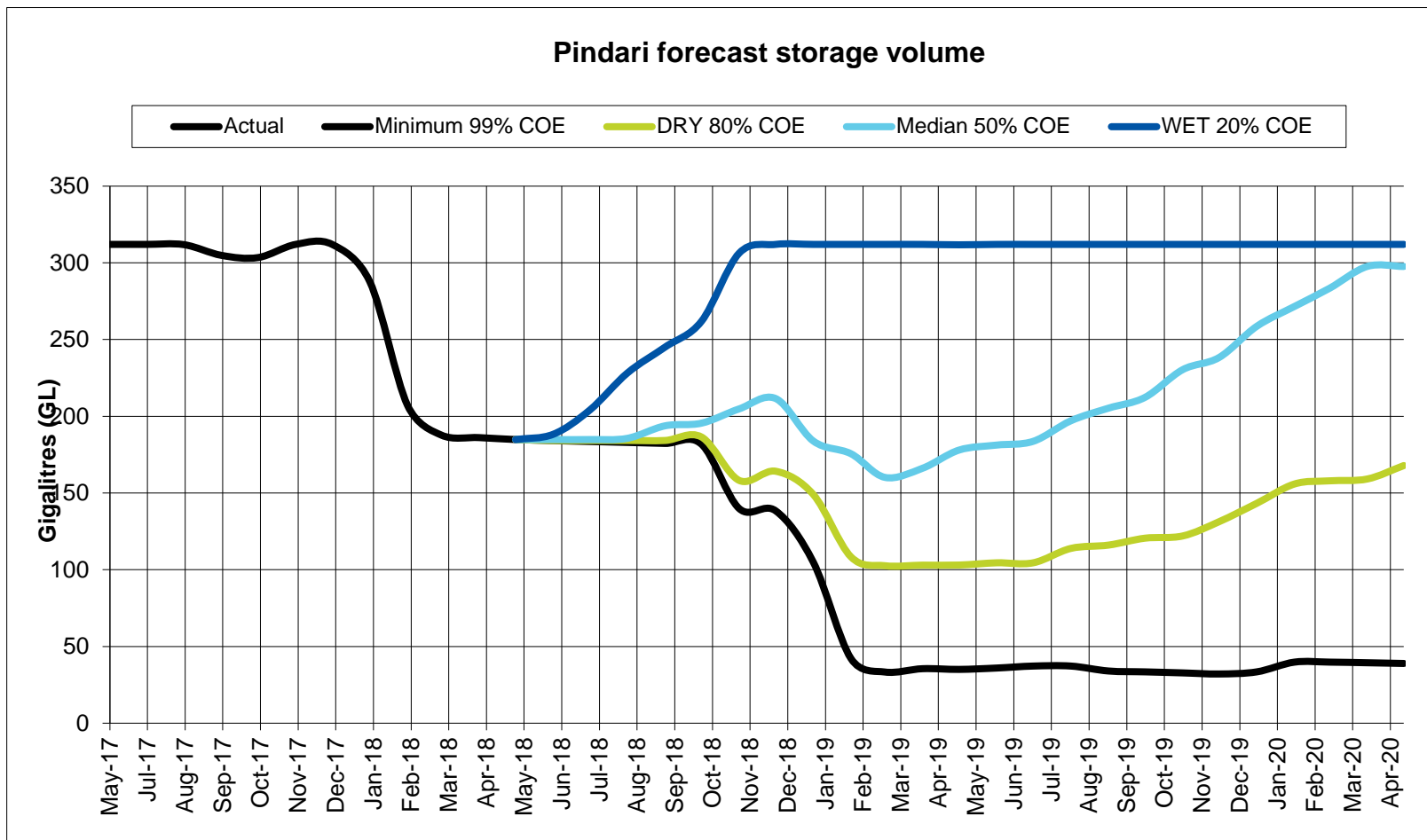
Border Cumulative Totals				
	Sales + Environmental delivery	Operational Surplus	Actual	Target
July	5,500	0	0%	5%
July-Aug	13,500	0	0%	5%
July-Sep	14,700	0	0%	5%
July-Oct	19,620	0	0%	5%
July-Nov	22488	0	0%	5%
July-Dec	48930	337	1%	5%
July-Jan	112027	3,658	3%	5%
July-Feb	120520	7,620	6%	5%
July-Mar	122544	7,620	6%	5%
July-Apr	124378	7,620	6%	5%
July-May			0%	5%
July-Jun			0%	5%

Storage Forecast



Expected deliveries of 135GL in 2017/18 under minimum and dry conditions. Pindari dam to be utilised in the first instance to supply NSW water orders.

Storage Forecast



System Operations Plan

Delivery on demand continues for users in the upper reaches above the junction.

- Under a minimum inflow scenario deliveries for users to just east of Goondiwindi will be order on demand, with some shortening at the end of the delivery season and possibly some grouping at commencement.
- Deliveries west of Boomi will be undertaken in distinct blocks throughout 2018/19

Prognosis

	Extremely dry	Dry	Average	Wet
	Minimum inflows	80th percentile inflows	50th percentile inflows	20th percentile inflows
3 month forecast to 31-Jul-18	0.0%	0.0%	1.4%	18.3%
6 month forecast to 31-Oct-18	0.0%	1.4%	13.7%	47.9%

