
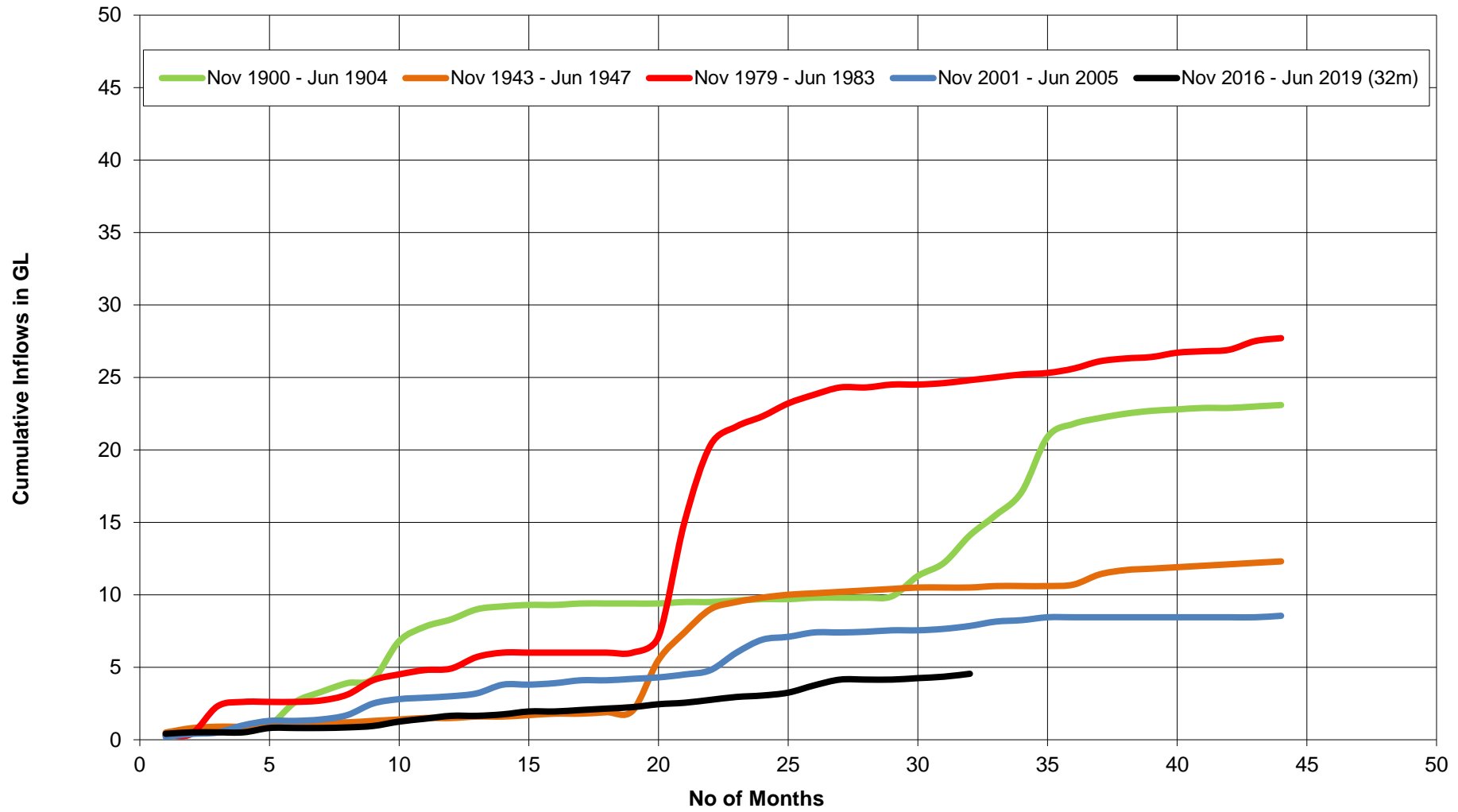


# Belubula Drought Operations 2019-20

Belubula Landholders Association Meeting  
12 September 2019

# Carcoar Drought Inflows for 44 Months Starting in November

# Recommendations to DPIE Water

## From 3 June 2019 meeting



- Access to GS allocations remaining in accounts as of 1 July 2019 is permitted unconstrained until end of September 2019. Dam releases are not planned until 1 Oct 2019.
- On 1 October 2019 access to GS account balances may be restricted.
- AWD for HS and S&D is announced as 50% and 60% respectively on 1 July 2019.
  - HS AWD is restricted at lesser rate than % reduction to GS {WSP clause 41(4)(f) & WMA Sec 58(2)}
- Operation to target min. 6.5% (2,500 ML) in Carcoar at end of each drought years.
- Allow allocation trades from GS and HS but only moving u/s.
- If dam inflows occur, HS allocations to increase at higher rate than rate at which suspended GS allocations are released.
- End of system flow rule to be formally suspended immediately.
- Proposed Flyers creek 'wet' trigger of 120 day moving average exceeding 40 ML/d is supported but concerned that Dam may not recover adequately when flow triggers are met. When Flyers ck triggers are met a review is undertaken with Belubula Landholders Association to assess the drought situation and determine if EOS flow rule can be reinstated.
- Uncontrolled flow access as per WSP is supported.
- Supplementary access as per WSP is supported.
- Effective available water for uncontrolled access should be calculated based on the restriction applied to the GS account balances.

# Water Account Balance – 31 August 2019



	Sum of Share Component	Sum of Account Balance	Sum of Available Water	Sum of AWD Vol	Sum of Carryover In	Sum of Allocation Assignments In	Sum of Allocation Assignments Out	Sum of Usage	Sum of UCF Usage
DOMESTIC AND STOCK	170	170	170	170	-	-	-	-	-
DOMESTIC AND STOCK [DOMESTIC]	8	8	8	8	-	-	-	-	-
DOMESTIC AND STOCK [STOCK]	44	42	42	44	2	-	-	-	-
REGULATED RIVER (GENERAL SECURITY)	22,454	7,254	6,639	-	8,221	970	705	1,313	81
REGULATED RIVER (HIGH SECURITY)	1,095	830	717	1,095	-	-	265	-	-
SUPPLEMENTARY WATER	3,125	3,065	3,065	3,125	-	-	-	60	-
Grand Total	26,896	11,369	10,641	4,442	8,219	970	970	1,373	81

Notes: 244 ML of GS use is for irrigation

# Determine what % of remaining GS balances is deliverable – from 1 October in 2019-20

**-Only an indicative calculation**



- GS Balance = 6679 ML (7254 – 575 = 6679 ML)
- HS Balance = 717 ML (AWD 100%)
- S&D Balance = 220 ML (AWD 100%)
- **Total = 7616 ML**
  
- Dam holding = 7600 ML
- Dam Inflow = 100 ML (min. inflow stats Oct – June)
- Useful Tribs = 3500 ML
- Less end of June 2020 target dam level = 2500 ML
- Less Transmission Losses = 4000 ML
- Less Operational Surpluses = 500 ML
- Less Dam net evaporation = 500 ML
- **Net resources available for use = 3700 ML**
- **Net resources available for use by GS = 2763 ML**
  
- **So, approx. 2763 ML out of 6679 ML of GS remaining alloc is deliverable ie 41% of GS balance**

# Water Delivery Options



- Dam releases are made to meet daily orders and associated losses
  - As per normal operation
  - Dam releases are adjusted for any tributary inflows
- Dam releases are pulsed during the week to make flows available on the weekend at Canowindra
  - About 3700 ML extraction and 4000 ML of losses totalling 7700 ML
  - About 6 months of supply, ie 24 weeks of supply (340 ML/week)
  - Sat/Sun/Mon = 100 ML/d, Tues/Wed/Thurs/Fri = 10 ML/d
- Block releases
  - Grouped orders
  - Orders released in 3 blocks between 1 October and 31 March 2020
  - Each block may extend over 7 to 10 days

The above options do not include any deliveries to meet end of system flows

# End of Presentation