

10 June 2021

## Macquarie and Cudgegong Regulated Rivers Water Source

### Water allocation update

**Allocation to general security (GS) entitlements has increased by 1%** in the Macquarie and Cudgegong regulated river water source this month, bringing the total cumulative allocation for this water year to 68% of entitlement.

All other licence categories have reached their full 100% allocation for the current water year.

2020-21	High Security	General Security	Drought Stage	
Cudgegong	100%	68%		Stage 1
Macquarie	100%	68%		Stage 1

Inflows totalling 10,600 megalitres (ML) into Burrendong Dam were observed during May and the outlook remains favourable for further rainfall and inflows during the winter months. Inflows received during the current month may enable a further general security allocation next month. This is subject to river operations and losses remaining as forecast.

Indicative inflow volumes required to provide further general security allocations this winter are provided at the end of this statement. The planning outlook runs through to May 2022 and aims to ensure that next water year's higher priority needs can be met before further allocating to general security entitlements this water year.

Tributary flows from passing storms downstream of Burrendong Dam will continue to be managed adaptively to meet high priority commitments. Transfers from Windamere Dam to Burrendong Dam are currently not required until at least March 2022.

### Burrendong Dam penstock outage

A maintenance outage of Burrendong Dam (main) penstock is currently in place to mid-July 2021. During the outage, only the bypass penstock will be available for making water releases from the dam. The release rate from the bypass penstock is limited to about 200 ML/d and is not adequate to meet any large demands or water orders in winter 2021.

Any inability to deliver translucent releases triggered during the maintenance outage will be subsequently made good in consultation with e-water holders.

Based on historic inflows over 119 years, there is small, but material chance that Burrendong Dam may spill by the end of August 2021.

## Storage levels (as at 9 June 2021)

- Burrendong Dam is 57.9 % full – rising – holding about 703,000 ML
- Windamere Dam is 33.9% full – steady – holding about 125,000 ML

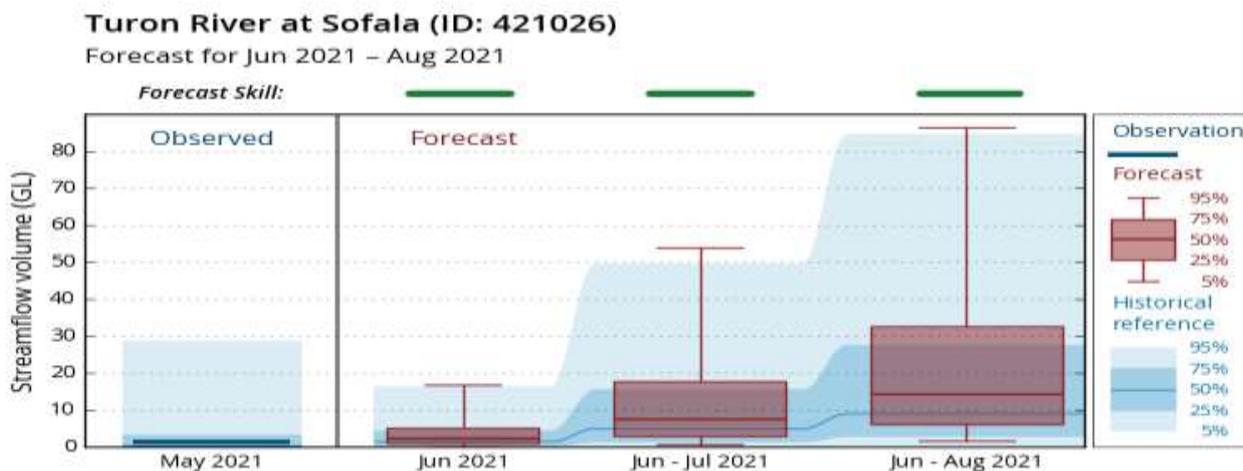
## Resource outlook for 2021-22

- Water for all critical needs is secure for the 2021-22 water year.
- There is enough water to provide **domestic and stock, local water utility and high security** water access licences with their maximum (100%) allocation on 1 July 2021.
- Likewise, **supplementary** entitlement holders can expect a full opening (100%) allocation.
- At this stage the opening **general security** allocation on 1 July 2021 will likely be zero. However, potential storage and tributary inflows in June 2021 will be assessed for any resource improvement and announced in the next routine statement in July.
- **Carryover** water will be fully available, subject to the plan rules, and deliverable in 2021-22.
- An estimated 404 gigalitres (GL) of general security water (inclusive of approximately 99 GL of held environmental water) is expected to be carried over into the new water year. This equates to approximately 64% of share component for general security licences.

## Seasonal climatic and inflow outlooks

The Bureau of Meteorology's seasonal outlook for winter indicates that rainfall is likely to be above average across the catchment. Daytime temperatures are likely to be cooler than average, while night-time temperatures are likely to be warmer than average.

The Bureau of Meteorology issues seasonal flow forecasts for the Turon River that drains into Burrendong Dam (see the figure below). This provides an indicative distribution of potential inflows. All forecast quartiles of total inflows from June to July are above the historic volumes, forecasting a likely wetter than historical inflow regime during this period.



For further information: [www.bom.gov.au/water/ssf/?ref=fr#id=421026](http://www.bom.gov.au/water/ssf/?ref=fr#id=421026)

# Water Allocation Statement

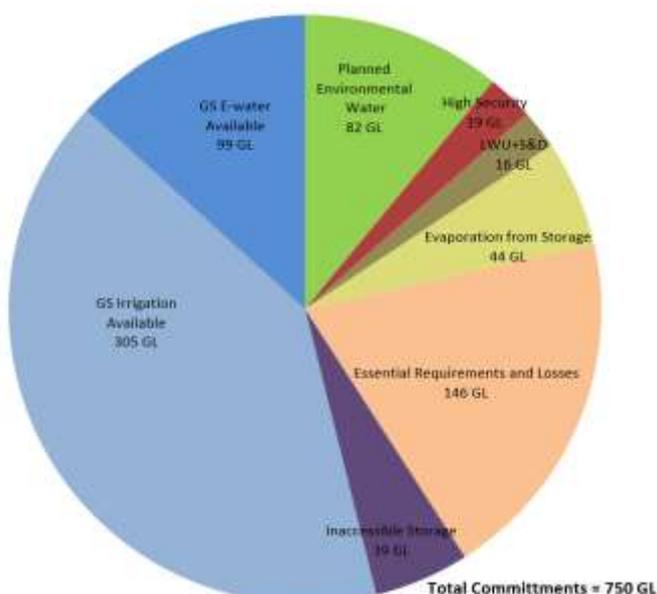
Water availability and allocation update



Resource distribution (June 2021 to May 2022)	Volume (GL)
Current and Future Resources <sup>(1)</sup>	750
<i>less</i>	
Carryover remaining in accounts <sup>(2), (7)</sup>	27
Planned Environmental Water <sup>(3)</sup>	82
Domestic, Stock, Town <sup>(4)</sup>	16
Inaccessible Storage <sup>(6)</sup>	39
High Security <sup>(4)(7)</sup>	19
General Security 2020/2021 AWD <sup>(7)</sup>	377
Essential Requirements and Losses <sup>(5)</sup>	146
Evaporation from Storage	44
<i>equals</i>	
Surplus (or deficit) <sup>(8)</sup>	0

## Notes:

- (1) End of May 2021 Storage volume in Burrendong Dam plus recession flows plus minimum budgeted dam inflows from June 2021 to May 2022 plus 27 GL planned transfer from Windamere Dam.
- (2) Volume remaining in carryover sub-accounts (excludes Cudgegong), discounted for evaporative losses.
- (3) Water allocated to the Environmental Water Allowance (EWA) under the water sharing plan to provide for the Macquarie Marshes and the riverine environment. Excludes 'licence-based' environmental water.
- (4) Reserves required to meet the projected use by Domestic, Stock, Town and High Security licence categories below Burrendong Dam over the assessment horizon.
- (5) Replenishments, basic rights and system overheads to run the river under dry conditions over the next 12 months. System overhead includes transmission losses and operational loss. This estimate is regularly refined as the year unfolds.
- (6) Dead storage of 34 GL plus 5 GL to ensure valve operations at very low storage levels.
- (7) This volume may contain held environmental water (HEW). The reporting of HEW is indicative only, prior to reconciliation of usage and net trade, and is estimated to be 99 GL of GS and 0 GL of HS. These entitlements are held and/or managed either singly or jointly by various environmental holder groups, including the NSW DPIE Environment, Energy and Science (EES) and the Commonwealth Environmental Water Holder (CEWH).
- (8) All available water is fully allocated with no surplus left. The system is secure to May 2022 and beyond with resource deficit.



# Water Allocation Statement

Water availability and allocation update



Inflow required to provide the next general security allocation (estimate as at 9 June 2020)

Inflow period	Inflows (GL)	Inflows (GL)
	<b>Minimum</b> inflow required before AWD can be made	Inflow required for additional <b>10% allocation</b>
By end of June	>3	73
By end of July	>8	92
By end of August	>120*	210*

*\*Note: The planning horizon from the end of August 2021 steps out a further year, to ensure higher security commitments in the 2022-23 water year can be met. This is the main reason for the increased inflow volume required to enable further general security allocations from September 2021.*

## Next announcement

The next water allocation announcement for Macquarie and Cudgegong Regulated Rivers will be included in the state-wide opening water allocation statement on 1 July 2021.

Following that, the next routine water allocation statement for the Macquarie and Cudgegong Regulated Rivers Water Source will be issued on **Monday 12 July 2021**.

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