

8 October 2021

Gwydir Regulated River Water Source

Water allocation update

Rainfall continues to provide system inflows including into Copeton Dam. **As a result, general security allocation has increased by 4.3%** of entitlement in the Gwydir Regulated River Water Source. It brings the total general security allocation to 73.6% of entitlement for the 2021-22 water year. The Environmental Contingency Allowance (ECA) also increases by the same percentage in accordance with the water sharing plan.

Rainfall in September varied from average to above average across the Gwydir catchment. Copeton Dam received about 30 mm of rainfall in September and corresponding inflows totalled about 37 gigalitres (GL).

This resource assessment is based on information to 30 September 2021. Any further resource improvement since that date will be captured in the next assessment.

Current allocations

2021-22	High Security	General Security
Gwydir Regulated River	100%	73.6%

Dam levels (as of 6 October 2021)

Copeton Dam is nearly 85% full – rising – holding about 1,155 GL. This time last year, the storage was about 16% full.

Key information

- Inflow into storage in September was about 37 GL and downstream tributary flow contributed about 8 GL to the available resource.
- Releases from Copeton Dam were low in September, at about 0.9 GL. Total essential supply demand was about 1.2 GL, there was no general security water or ECA demand in September.
- No water was transferred from high security to general security accounts in September.
- Supplementary water usage has been about 29.3 GL so far this water year which is about 32% of the total 90.7 GL of supplementary allocation (50% of entitlement).

Climate and streamflow outlooks

The Bureau of Meteorology's seasonal outlook for next three months indicates that rainfall is likely to be above median across the catchment. Overnight temperatures are likely to be above average.

Further details at: www.bom.gov.au/climate/outlooks/#/overview/summary

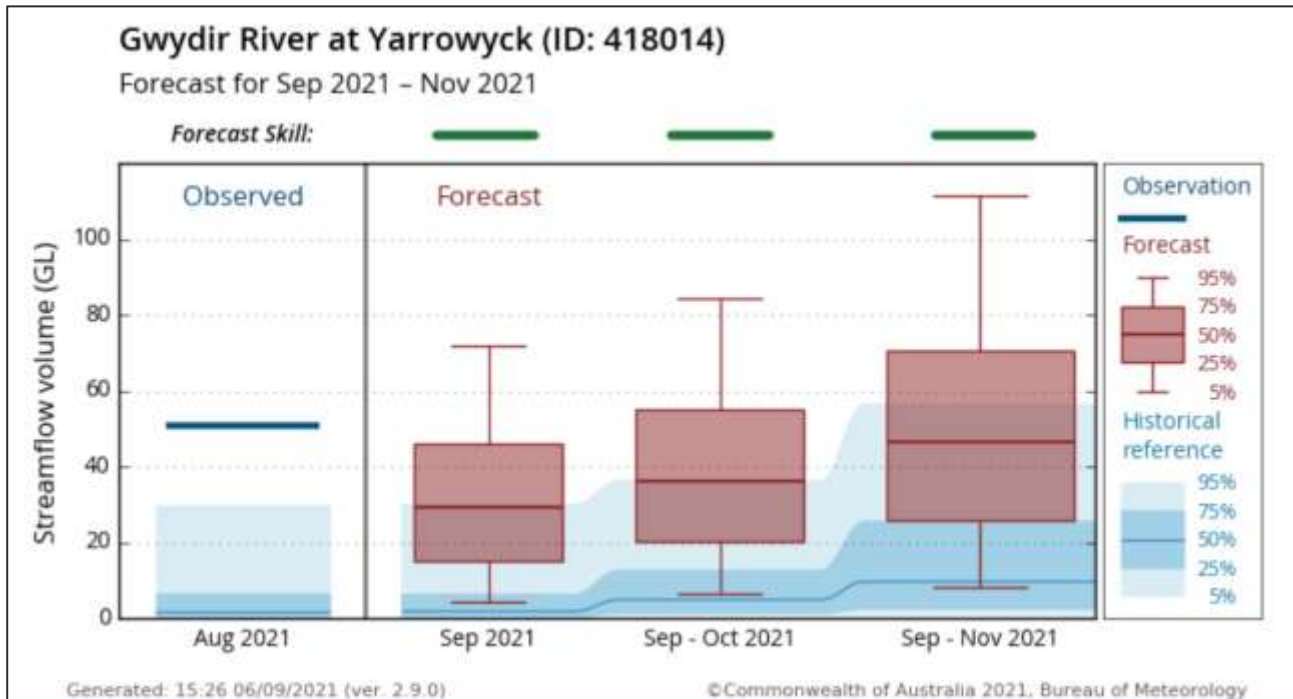
Water Allocation Statement

Water availability and allocation update



The Bureau of Meteorology issues a seasonal flow forecast for the Gwydir River at Yarrowyck, upstream of Copeton Dam (see the figure below). This may provide an indication of potential inflows into the dam. All forecast quartiles of total flow volume from September to November are higher than the historical quartiles, indicating potentially wetter than historical conditions for spring.

Details can be found at: www.bom.gov.au/water/ssf/



Further information

The next monthly water allocation statement for the Gwydir Regulated River Water Source will be published on **Friday 5 November 2021**.

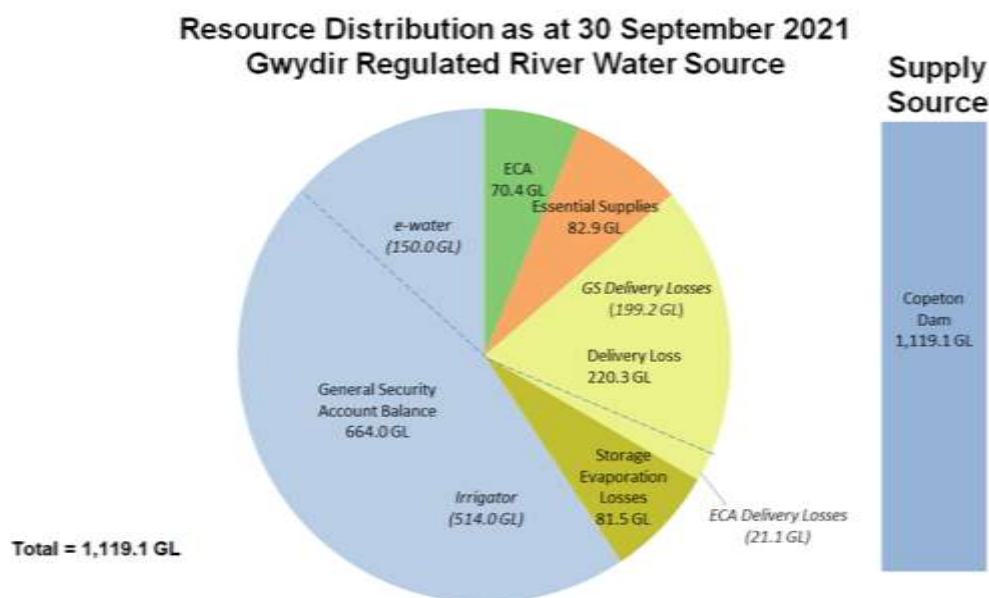
Information on available water determinations and water sharing plans is available on the Department of Industry website: www.industry.nsw.gov.au/water

Resource assessment data sheet

Resource distribution (as of 30 September 2021)	Volume (GL)
Copeton Dam active volume	1,119.1
<i>less</i>	
Storage Evaporation Losses ⁽¹⁾	81.5
Essential Supplies ⁽²⁾	82.9
Environmental Contingency Allowance (ECA)	70.4
Delivery Loss GS ⁽³⁾	199.2
Delivery Loss ECA ⁽³⁾	21.1
General Security Held Environmental Water (HEW) Account Balance ⁽⁴⁾	150.0
General Security Irrigator Account Balance	514.0
Surplus (deficit) ⁽⁵⁾	0.0

Notes:

- (1) Storage Losses – evaporation is based on maximum historical rates for the next 24 months.
- (2) Essential Supplies – water required to be set aside under the water sharing plan to provide for Towns, Stock, Domestic, High Security and riverine environments for the next 24 months. It includes stock and domestic replenishments, delivery loss allowance and end-of-system flow requirements. This is offset by minimum forecast inflows to storage.
- (3) Delivery Losses - this account reflects the water needed to deliver general security and ECA water. Traditionally, a 30% delivery loss has been budgeted for this river system.
- (4) Held environmental water (HEW) – The reporting of held environmental water is indicative only. General Security HEW account balance estimated to be 150.0 GL and High Security HEW account balance is estimated to be 5.8 GL. These entitlements are held and/or managed either singly or jointly by various environmental holder groups, including the NSW environment water holder and the Commonwealth Environmental Water Holder (CEWH).
- (5) All available water resources have been fully allocated with no surplus left. The system is secure for next 24 months and beyond with no deficit.



Water Allocation Statement

Water availability and allocation update



Resource assessment as at 30 September 2021

Volumes in GL	Budget	Current	Additional	Balance
Storage Evaporation Loss	81.47	80.35	1.12	81.47
Essential Supplies for next 24 months	82.90	81.75	1.15	82.90
Delivery Loss GS (229 GL max)	199.19	192.54	6.65	199.19
Delivery Loss ECA (27 GL max)	21.12	20.54	0.59	21.13
ECA (90 GL max)		68.46	1.96	70.42
General Security (764.5 GL max)		641.82	22.16	663.98
Additional Resource for Sharing		33.63	-33.63	0.00
Total		1,119.09	0.00	1,119.09

General Security	Value	Unit
Incremental Increase CREDITED	22.16	GL
Available Water Determination	0.043	ML per unit share

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