

7 February 2017

## Gwydir Valley

### Water allocation update – to end of January 2017

#### Allocations

January witnessed above average rainfall in the storage headwater catchments, resulting in some small inflows into Copeton Dam. This has allowed for a small **increase in allocation to general security licence holders of 0.44 per cent, bringing the total for the 2016/17 water-year to 72.87 per cent of entitlement.**

All other categories of licence in the valley have already received their maximum allocation for the 2016-17 water-year.

	High Security	General Security
Gwydir valley	100%	72.87%

#### Dam levels (as at 6 February)

Copeton Dam is 48 per cent full – falling - holding 668,000 megalitres (ML).

#### Key facts

- The storage volume in Copeton Dam fell by about 86,000 ML during January as water was released to meet growing downstream irrigation requirements. This time last year, the storage was 17 per cent full.
- NSW experienced hot conditions in January – the third warmest on record for mean temperatures, with new records being set in some parts of the state. The hot conditions also resulted in higher delivery losses than the expected, however; this was offset by some additional inflows.

#### Seasonal rainfall outlook

The Bureau of Meteorology has forecast a less than 35 per cent chance of median rainfall being exceeded in the Gwydir Valley during February 2017. The climate outlook for the three months from February to April shows that rainfall is likely to be below average.

The outlook is influenced by a neutral El Niño–Southern Oscillation (ENSO), a neutral Indian Ocean Dipole and fewer passing cold fronts from the south reaching northern parts of Australia as a result of continued higher than average pressure systems across the nation.

#### Further information

The next monthly Water Allocation Statement for the Gwydir regulated river water source will be issued on **Tuesday 7 March 2017.**

**Media contact: James Muddle M 0407 103 507**

[www.water.nsw.gov.au](http://www.water.nsw.gov.au)

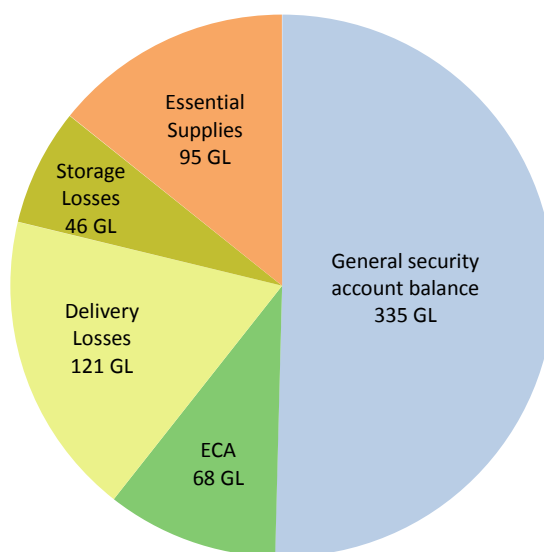
Information on Available Water Determinations and water sharing plans is available on the DPI Water website - [www.water.nsw.gov.au](http://www.water.nsw.gov.au)

## Gwydir Resource Assessment Data Sheet

Resource Distribution as at 01 February 2017	
	Volume (GL)
Available Resource <sup>(1)</sup>	665.30
<b>less</b>	
Storage Losses <sup>(2)</sup>	46.41
Essential Supplies <sup>(3)</sup>	94.72 (100% full)
ECA	67.81
Delivery Losses	120.96
General Security Account Balance	335.40

\*See notes below.

### Resource Distribution as at 01 February 2017 Gwydir Valley



**Total = 665 GL**

#### Notes:

- (1) Available Resource (665 GL): is the total active storage at Copeton Dam at the time of assessment.
- (2) Storage Losses: evaporation loss based on forecast storage behaviour and maximum historical evaporation rates over 2 years.
- (3) Essential Supplies: water required to be set aside under the water sharing plan to provide for Towns, Stock, Domestic, High Security and riverine environments. Includes stock and domestic replenishments, delivery loss allowance and end-of-system flow requirements. This commitment is offset by minimum forecast inflows into the storage.

## Gwydir resource assessment

- Previous Assessment date: 31 December 2016
- Current Assessment date: 31 January 2017

<b>Storage volume</b>	<b>Committed Volume (GL)</b>	<b>Remaining Storage Balance (GL)</b>
Total		684.30
Dead storage	19.00	665.30
Storage Loss Committed - projected 2 years (brought forward)	49.63	615.67

<b>Essential Supplies</b>	<b>Committed Volume (GL)</b>	<b>Remaining Balance (GL)</b>
Brought forward	91.60	
Used and associated loss since last assessment	-5.33	
Allocation Assignments from High Security to General Security	-4.51	
Transfer to General Security delivery loss account	-1.35	
Current balance	80.41	535.26

<b>Environmental Contingency Allowance (ECA)</b>	<b>Committed Volume (GL)</b>	<b>Remaining Balance (GL)</b>
Brought forward	78.99	
Orders from assessment period	-11.39	
Current balance	67.61	467.65

<b>General Security Irrigation</b>	<b>Committed Volume (GL)</b>	<b>Remaining Balance (GL)</b>
Brought forward	392.87	
Orders from assessment period	-64.26	
Allocation Assignments from High Security to Low Security	4.51	
Reconciliation of accounts	0.00	
Current balance	333.11	134.54

<b>Delivery Loss</b>	<b>Committed Volume (GL)</b>	<b>Remaining Balance (GL)</b>
Brought forward	138.21	
Losses since last assessment	-26.11	
Credit from Essential Supplies (for Allocation Assignments to GS)	1.35	
Current balance	113.46	21.08

<b>Apparent Losses since last assessment</b>	<b>% of loss</b>	<b>GL</b>
Total		27.48
Essential Supply Loss	5%	1.37
General Security + ECA Loss	95%	26.11

<b>Resources available for sharing</b>	<b>GL</b>
Total	<b>21.08</b>

<b>New balances</b>	<b>Limit</b>	<b>Commitments</b>		<b>Balance</b>
		Current	Additional	
	GL	GL	GL	GL
Storage Loss	46.41	49.63	-3.22	46.41
Essential Supplies	94.72	80.41	14.31	94.72
Delivery Loss	256.35	113.46	7.50	120.96
ECA	90.00	67.61	0.20	67.81
General Security Irrigation	764.50	333.11	2.28	335.40
Uncommitted resources	-	21.08	-21.08	0.00
Total	-	665.30	0.00	665.30

<b>Recommendations (General Security)</b>	<b>Value</b>	<b>Unit</b>
Incremental Increase CREDITED	2.28	GL
Available Water Determination	0.0044	ML per unit share