

7 November 2016

## Gwydir Valley

### Water allocation update – to end October 2016

#### Allocations

Sufficient resources are available to announce an **increase in allocation of 7.57 per cent of entitlement to general security licence holders in the Gwydir Valley, bringing the total for the 2016/17 water year to 69.01 per cent of entitlement.**

Rainfall totals of between 70mm to 80 mm fell in the Gwydir catchment during October, particularly in the latter half of the month. Inflows to Copeton Dam have allowed additional water to be made available for distribution to licence holders.

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%          | 69.01%           |

#### Dam levels (as at 04 November)

Copeton Dam is 58 per cent full – rising - holding 794,000 megalitres (ML).

#### Key facts

- Rainfall across the upper catchments in October caused Copeton Dam storage to rise by 4 per cent (56,000 ML) over the month.
- On-farm storages across the valley are now effectively full from the supplementary water access made available since the start of the water year. Most of the valley's water demand until early next year is expected to be met from these on-farm storages.
- Dam releases are likely to follow as irrigation demand increases in January and February 2017.
- Weir pools will help meet local water orders along the length of the river.

#### Seasonal rainfall outlook

The Bureau of Meteorology seasonal outlook indicates November is likely to be drier than average in the catchment, whereas the three-month outlook from November to January 2017 indicates equal chance of being above or below average rainfall conditions.

Warmer days and nights are likely across NSW and large parts of Queensland reflecting a shift from the previous update.

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

The current outlook reflects a weakening negative Indian Ocean Dipole, an ENSO-neutral tropical Pacific and warm ocean temperatures around Australia's northern and eastern coastlines.

### **Further information**

The next water allocation statement for the Gwydir regulated river water source is scheduled to be issued on **Wednesday 7 December 2016**.

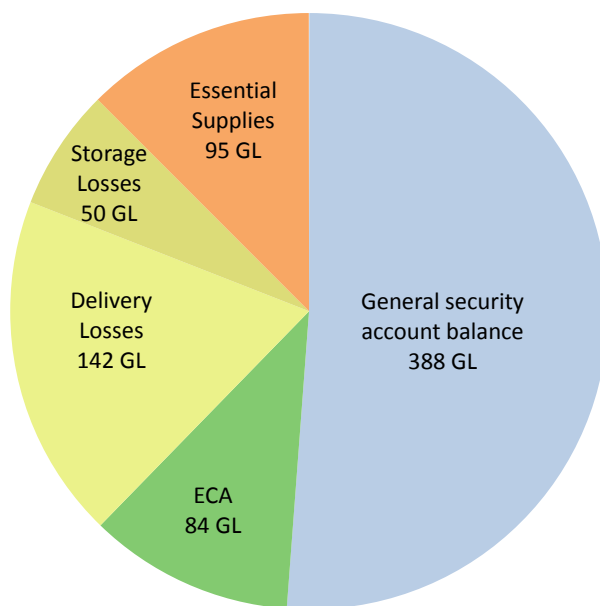
Information on Available Water Determinations and water sharing plans is available on the DPI Water website - [www.water.nsw.gov.au](http://www.water.nsw.gov.au)

### Gwydir Resource Assessment Data Sheet

| Resource Distribution (as at 01 November) for 2016-17 |                        |
|---|------------------------|
|   | Volume (GL)            |
| Available Resource <sup>(1)</sup>                     | 759.22                 |
| <b>less</b>   |                        |
| Storage Losses <sup>(2)</sup>                         | 49.92                  |
| Essential Supplies <sup>(3)</sup>                     | 94.72 (100% full)      |
| ECA   | 84.06                  |
| Delivery Losses                                       | 141.83 (30% of demand) |
| General Security Account Balance                      | 388.70                 |

\*See notes below.

### Resource Distribution Nov 2016 to Jun 2017 Gwydir Valley



**Total = 759 GL**

#### Notes:

- (1) Available Resource (759 GL) – is total active storage at Copeton Dam at the time of assessment.
- (2) Storage Losses – evaporation loss based on forecast storage behaviour over 2 years.
- (3) Essential Supplies – water required to be set aside under water sharing plans 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 storages.

## Gwydir resource assessment

- Previous Assessment date: 30 September 2016
- Current Assessment date: 31 October 2016

| <b>Storage volume</b>                      | <b>Committed Volume (GL)</b> | <b>Remaining Storage Balance (GL)</b> |
|--|------------------------------|---------------------------------------|
| Total                                      |                              | 778.22                                |
| Dead storage                               | 19.00                        | 759.22                                |
| Storage Loss Committed (projected 2 years) | 47.83                        | 711.39                                |

| <b>Essential Supplies</b>                                     | <b>Committed Volume (GL)</b> | <b>Remaining Balance (GL)</b> |
|---|------------------------------|-------------------------------|
| Brought forward   | 94.72                        |                               |
| Used and associated loss since last assessment                | -1.14                        |                               |
| Allocation Assignments from High Security to General Security | 0.00                         |                               |
| Transfer to General Security delivery loss account            | 0.00                         |                               |
| Current balance   | 93.58                        | 617.81                        |

| <b>Environmental Contingency Allowance (ECA)</b> | <b>Committed Volume (GL)</b> | <b>Remaining Balance (GL)</b> |
|--|------------------------------|-------------------------------|
| Brought forward                                  | 80.66                        |                               |
| Orders from assessment period                    | 0.00                         |                               |
| Current balance                                  | 80.66                        | 537.16                        |

| <b>General Security Irrigation</b>                        | <b>Committed Volume (GL)</b> | <b>Remaining Balance (GL)</b> |
|---|------------------------------|-------------------------------|
| Brought forward   | 350.14                       |                               |
| Orders from assessment period                             | 0.00                         |                               |
| Allocation Assignments from High Security to Low Security | 0.00                         |                               |
| Reconciliation of accounts                                | 0.00                         |                               |
| Current balance   | 350.14                       | 187.02                        |

| <b>Delivery Loss</b>  | <b>Committed Volume (GL)</b> | <b>Remaining Balance (GL)</b> |
|---|------------------------------|-------------------------------|
| Brought forward   | 129.24                       |                               |
| Losses since last assessment                                      | 0.00                         |                               |
| Credit from Essential Supplies (for Allocation Assignments to GS) | 0.00                         |                               |
| Current balance   | 129.24                       | 57.78                         |

| <b>Apparent Losses since last assessment</b> | <b>% of loss</b> | <b>GL</b> |
|--|------------------|-----------|
| Total  |                  | 0.00      |
| Essential Supply Loss                        | 100%             | 0.00      |
| General Security + ECA Loss                  | 0%               | 0.00      |

| <b>Resources available for sharing</b> | <b>GL</b>    |
|--|--------------|
| Total                                  | <b>57.78</b> |

| <b>New balances</b>         | <b>Limit</b> | <b>Commitments</b> |            | <b>Balance</b> |
|-----------------------------|--------------|--------------------|------------|----------------|
|                             |              | Current            | Additional |                |
|                             |              | GL                 | GL         |                |
| Storage Loss                | 49.92        | 47.83              | 2.08       | 49.92          |
| Essential Supplies          | 94.72        | 93.58              | 1.14       | 94.72          |
| Delivery Loss               | 256.35       | 129.24             | 12.59      | 141.83         |
| ECA                         | 90.00        | 80.66              | 3.40       | 84.06          |
| General Security Irrigation | 764.50       | 350.14             | 38.56      | 388.70         |
| Uncommitted resources       | -            | 57.78              | -57.78     | 0.00           |
| Total                       | -            | 759.22             | 0.00       | 759.22         |

| <b>Recommendations (General Security)</b> | <b>Value</b> | <b>Unit</b>       |
|---|--------------|-------------------|
| Incremental Increase CREDITED             | 38.56        | GL                |
| Available Water Determination             | 0.0757       | ML per unit share |