

GWYDIR REGULATED WATER SOURCES

Water allocation updates

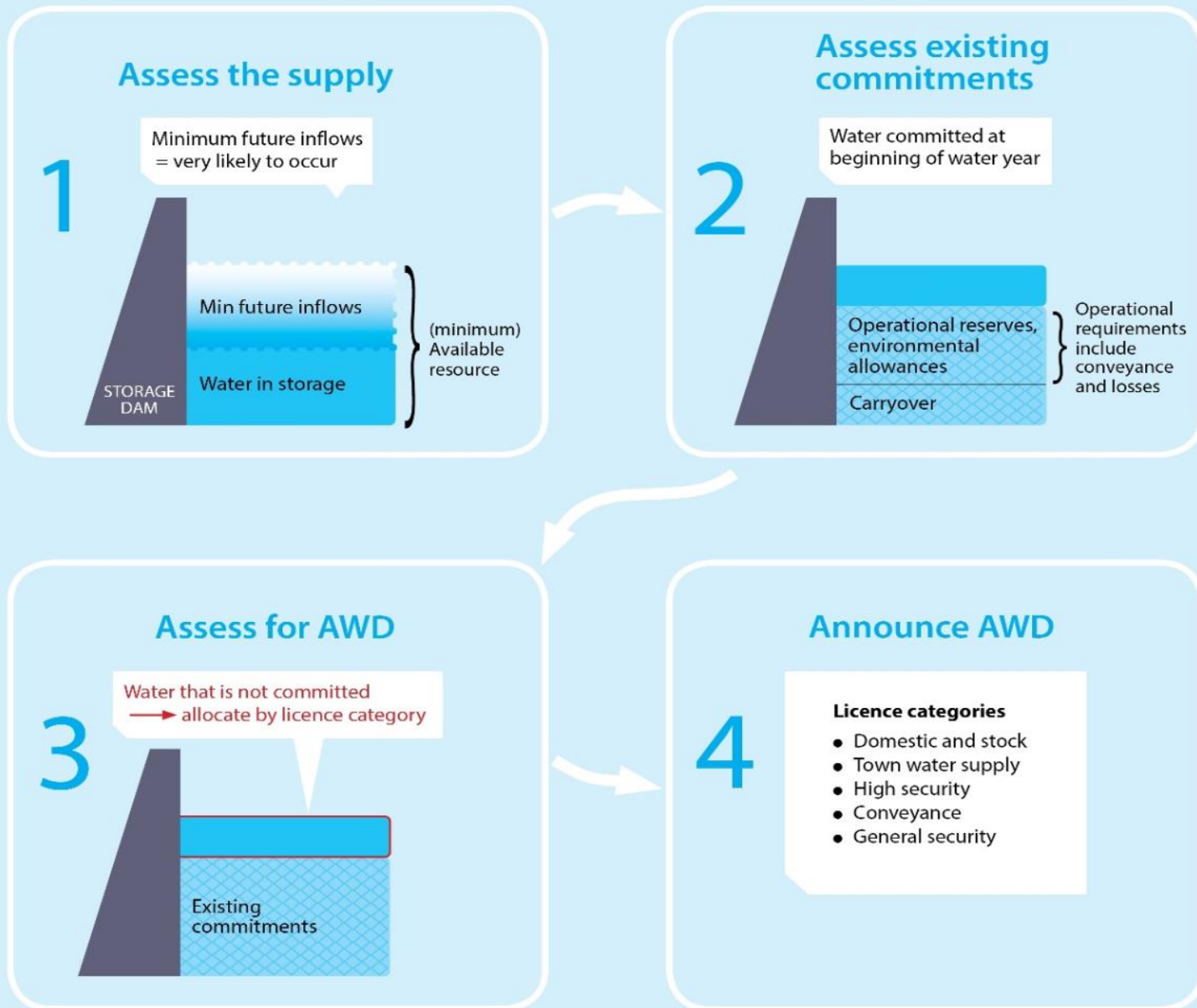
NSW Department of Industry—Lands & Water | B. Graham, V. Gupta | Moree | Presented on 30 August 2018

This talk

Water allocation updates

- Key statistics since last allocation made in February 2018
- State of current water resources
- Gwydir resources
- Actual available water determination (AWD) computations are market-sensitive
- NSW Department of Industry—Lands & Water determines water allocation
- WaterNSW delivers the allocated water

Resource assessment process



Relevant information

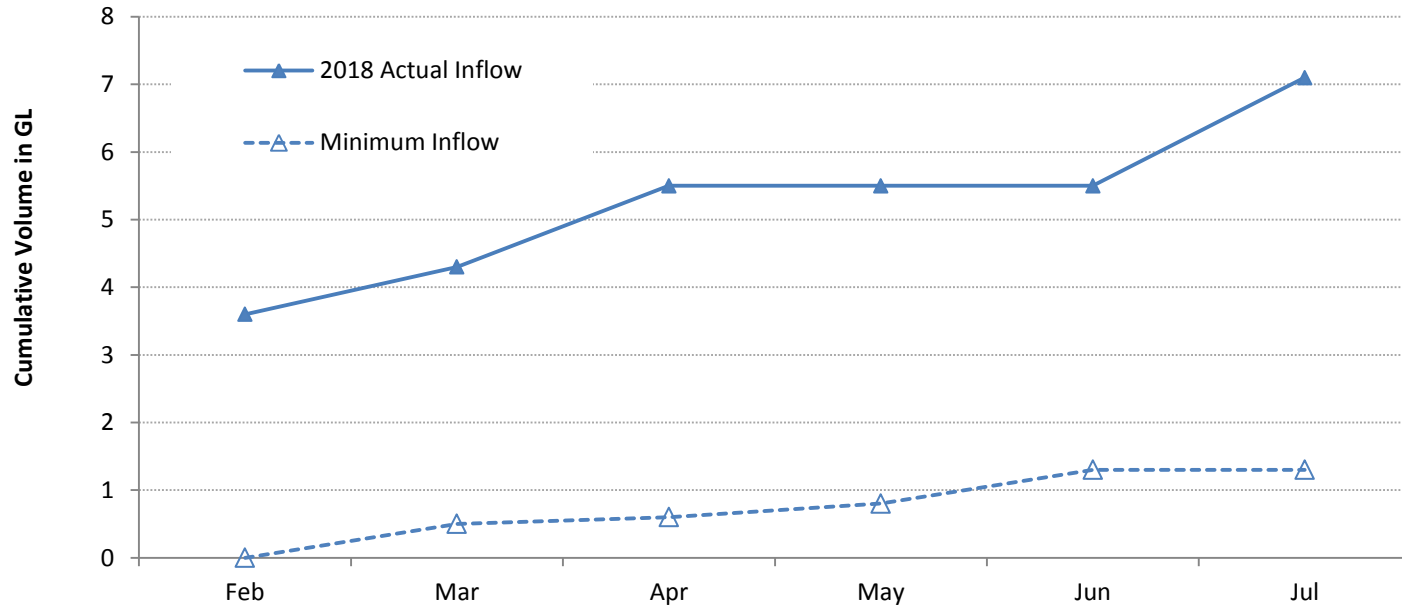
Gwydir resources

- Inflows since February 2018 have been among the lowest in five out of 100 years.
- Transmission and evaporation losses have been higher than budgeted volume since February 2018.
- As at the last resource assessment, the estimated deficit is 25 GL.
- The climate outlook is for a dry spring.
- Transmission loss and evaporation assessments need closer scrutiny.
- Routine allocation statement is usually published on the fifth working day of each month.
- We are trialling a shorter allocation statement.

Resource distribution as at 1 August 2018

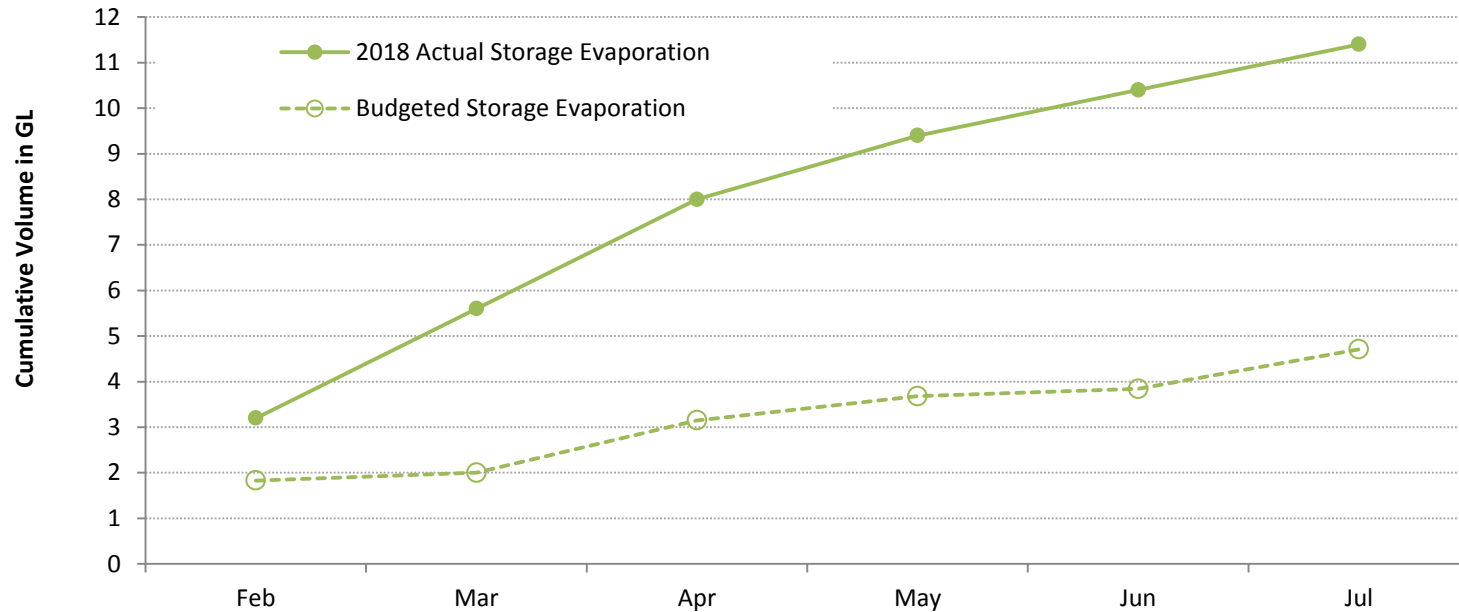
Volumes in GL	Target	1 August 2018	Shortfalls
Storage loss	31.48	31.48	
Essential supplies	94.72	77.27	17.45
Delivery loss	55.42	48.16	7.26
ECA		66.43	
General security irrigation		118.30	
Additional resource for sharing		0.00	
Total		341.64	24.71

Gwydir minimum inflows



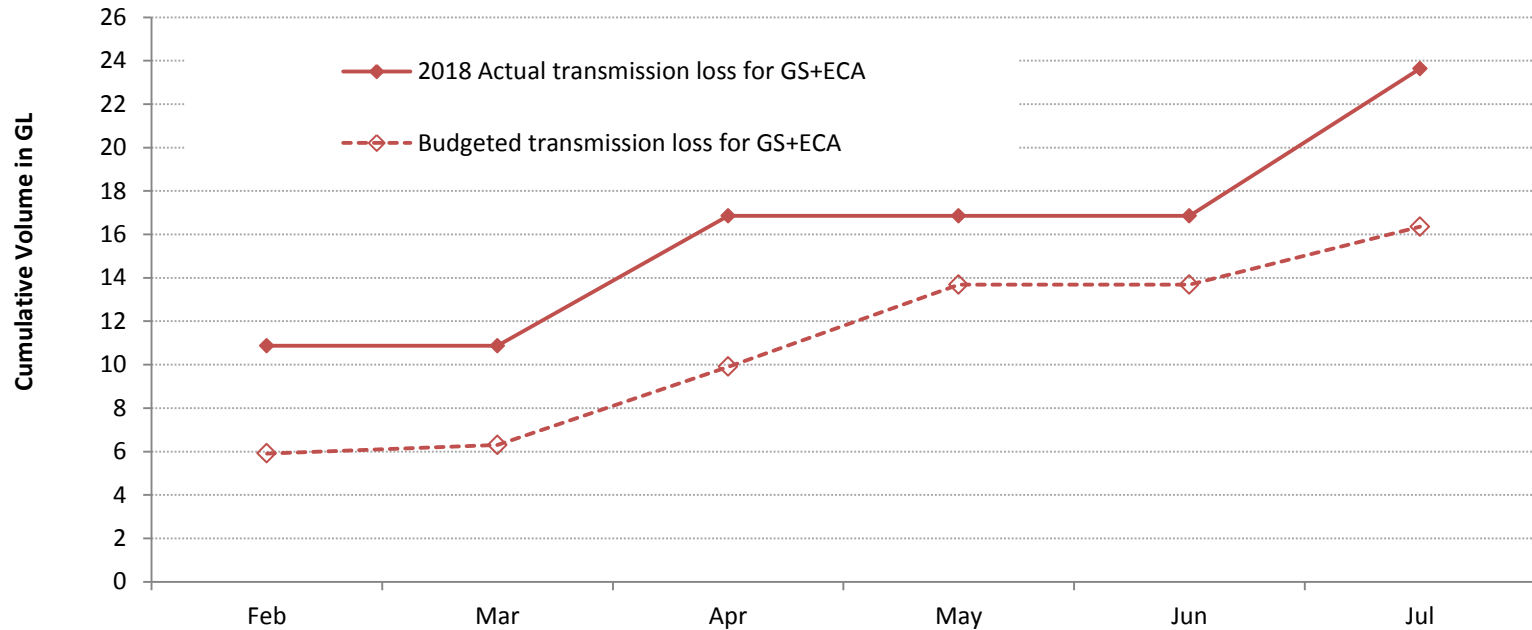
Note: While inflows since February 2018 have been above minimums, they are within the lowest experienced in five out of 100 years.

Gwydir storage evaporation deficit



Note: Storage evaporation since February 2018 has been higher than budgeted.

Gwydir transmission loss deficit



Note: The average transmission loss since February 2018 was 43%; the budget was 30%.

9 August 2018

Gwydir Valley

Water allocation update

Allocations

General security allocation remains unchanged at zero per cent of entitlement. There was no resource improvement to provide an increase in allocation. Rainfall and inflow into Copeton Dam were very low in July 2018.

The 2017-2018 inflow to Copeton Dam was within the lowest five years out of 100 years of historical inflows. The evaporation and delivery losses for the last water year were higher than the budgeted volume. There is currently a shortfall of around 25,000 megaliters (ML).

Apart from general security, all other categories of licence in the regulated river valley have received their maximum allocation for the 2018-19 water year.

	High Security	General Security
Gwydir Valley	100%	0%

Dam levels (as at 6 August)

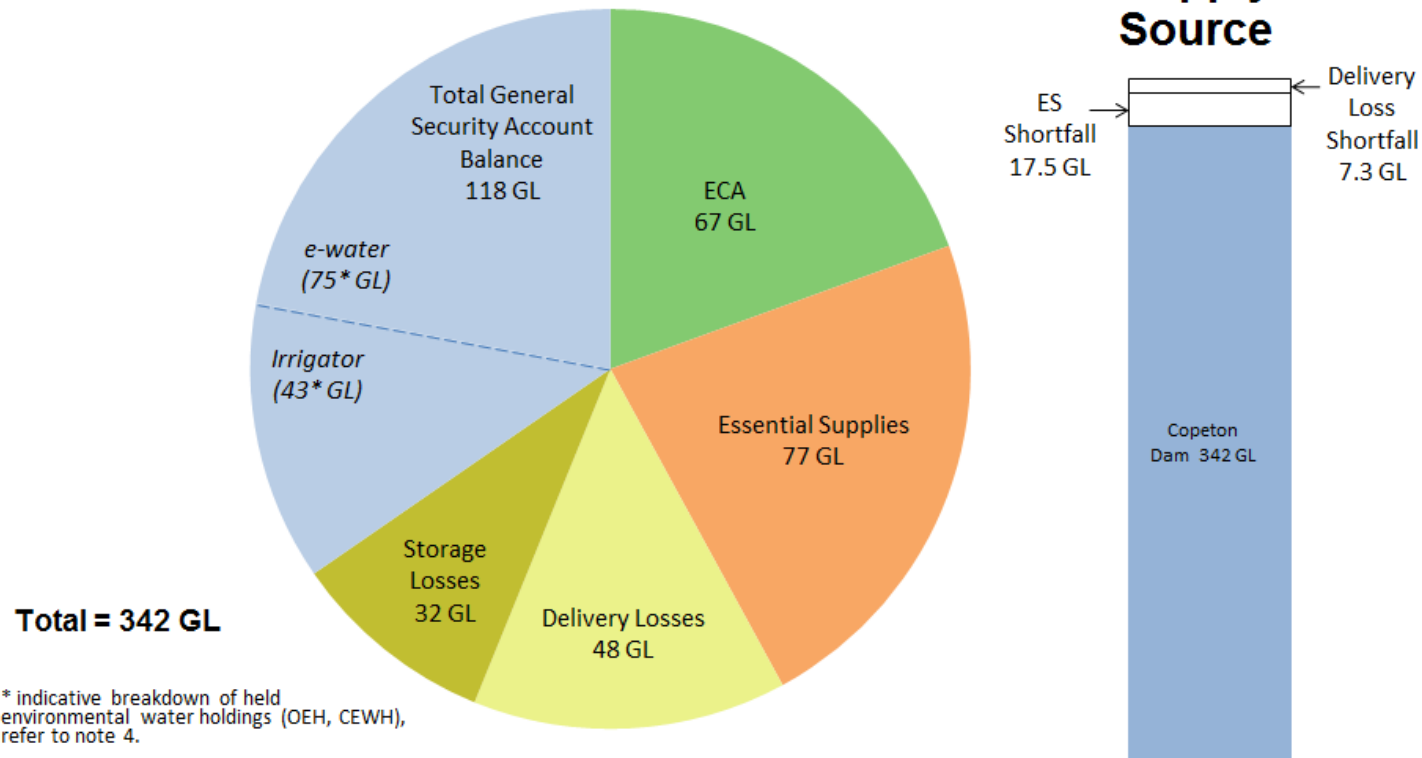
Copeton Dam is approximately 25 per cent full – falling – currently holding around 357,000 ML. This time last year the storage was about 53 per cent full.

Key facts

- The volume in Copeton Dam has decreased by about 15,500 ML in July 2018.
- The resource assessment shows essential requirements can be met for next 24 months. However, the general security and ECA delivery loss account will be extremely low by the end of this year if dry conditions continue.
- Block releases will be needed to minimise losses in the delivery of the remaining general security and ECA account water.
- Block releases will primarily consist of three discrete deliveries to provide some replenishment to effluent streams in spring and summer.

Resource distribution as at 1 August 2018

Resource Distribution as at 31 July 2018 Gwydir Valley



Water Allocation Statement

Resource Assessment

Storage volume	Committed Volume (GL)	Remaining Storage Balance (GL)
Total		360.63
Dead storage	19.00	341.63
Storage Loss Committed - projected 2 years (brought forward)	32.36	309.27

Essential Supplies	Committed Volume (GL)	Remaining Balance (GL)
Brought forward	86.33	
Used and associated loss since last assessment	-0.60	
Allocation Assignments from High Security to General Security	-7.74	
Transfer to General Security delivery loss account	-2.32	
Current balance	75.67	233.60

Environmental Contingency Allowance (ECA)	Committed Volume (GL)	Remaining Balance (GL)
Brought forward	75.33	
Orders from assessment period	-6.90	
Current balance	68.43	167.17

General Security Irrigation	Committed Volume (GL)	Remaining Balance (GL)
Brought forward	110.56	
Orders from assessment period	-0.02	
Allocation Assignments from High Security to Low Security	7.74	
Reconciliation of accounts	0.00	
Current balance	118.20	48.87



Delivery Loss	Committed Volume (GL)	Remaining Balance (GL)
Brought forward	52.62	
Losses since last assessment	-6.78	

Web: www.industry.nsw.gov.au/water

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Water Allocation Statement

Delivery Loss	Committed Volume (GL)	Remaining Balance (GL)
Credit from Essential Supplies (for Allocation Assignments to GS)	2.32	
Current balance	48.16	0.72

Apparent Losses since last assessment	% of loss	GL
Total		7.04
Essential Supply Loss	4%	0.26
General Security + ECA Loss	96%	6.78

Resources available for sharing	GL
Total	0.72

Volumes In GL	Target	1 Jul-18	Adjustments	1 Aug-18
Storage Loss	31.48	32.36	-0.88	31.48
Essential Supplies	94.72	75.67	1.80	77.27
Delivery Loss	256.35	48.16	0.00	48.16
ECA	90.00	68.43	0.00	68.43
General Security Irrigation		118.30	0.00	118.30
Additional Resources for Sharing	-	0.72	-0.72	0.00
Total	-	341.63	0.00	341.63

Recommendations (General Security)	Value	Unit
Incremental Increase CREDITED	0.00	GL
Available Water Determination	0.0000	ML per unit share

Web: www.industry.nsw.gov.au/water

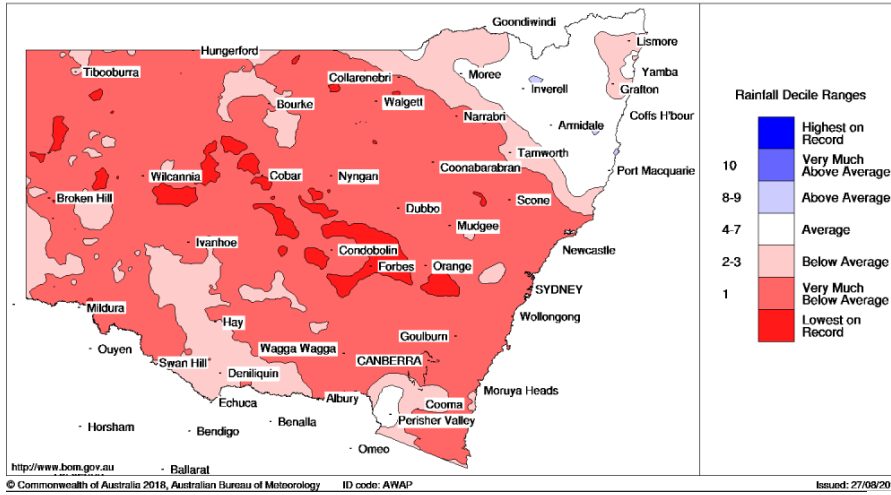
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Information

- Copeton storage volume as at 29 August 2018: 342,460 ML (24.1%)
- Rainfall at the dam so far in August has been 46 mm
- Rainfall over the catchment so far in August has been at average levels

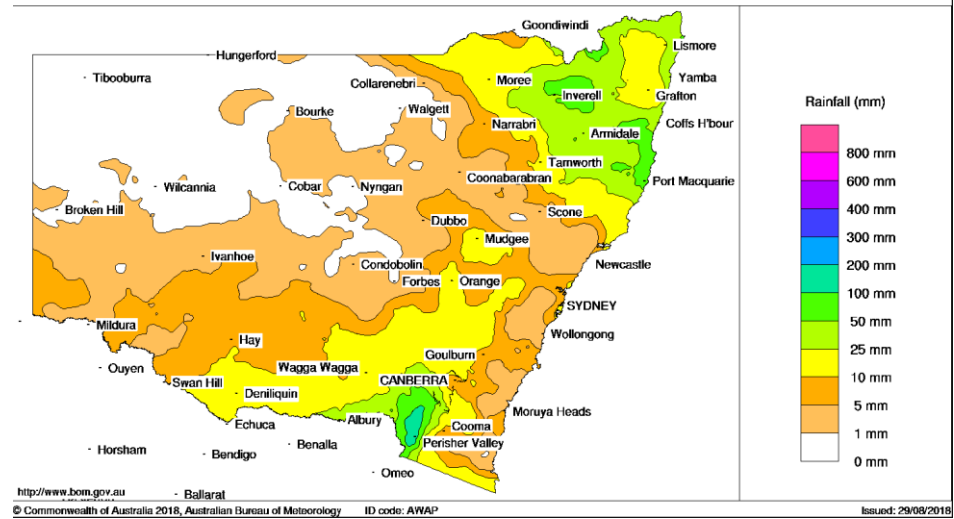
New South Wales Rainfall Deciles July 2018

Distribution Based on Gridded Data
Australian Bureau of Meteorology

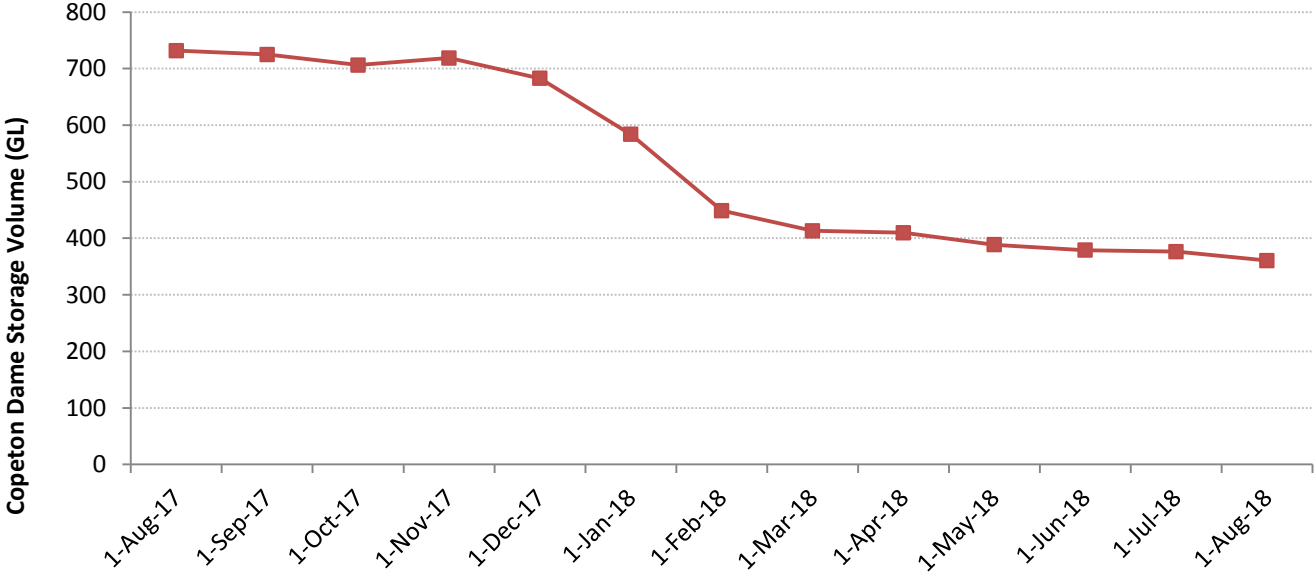


New South Wales Rainfall totals (mm) July 2018

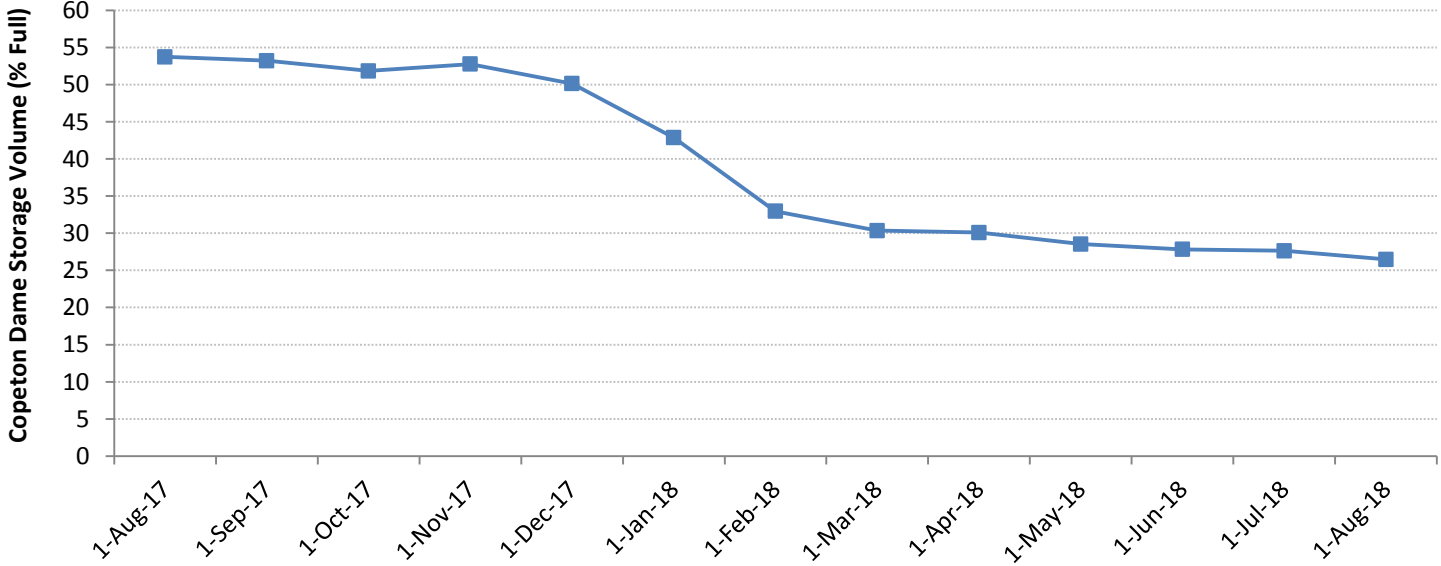
Australian Bureau of Meteorology



Copeton storage volume



Copeton storage % full



Closing remarks

- Up-to-date water allocation statements are available on the department's website: industry.nsw.gov.au/water/allocations-availability/allocations/statements
- Statements contain tables, charts and notes with explanations.
- Allocations follow the water sharing plan rules.
- The plan ensures security of essential supply through the repeat of the worst known drought on record (1918–20) during the commencement of the plan.

Water resource planning (WRP) update (as at August 2018):

General:

- Lachlan Alluvium WRP is due shortly as the first plan for NSW

Gwydir:

- Finalising the final package for presentation to the stakeholder advisory panel in September 2018
- Internal approvals process commencing
- Drafting WRP and the product's development is nearly complete
- Ongoing discussions with Murray–Darling Basin Authority on the WRP to help meet accreditation requirements
- Targeting public exhibition of Gwydir WRP in late September/early October 2018