

### **Murray Darling Association Inc.**

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> 463 High Street P.O. Box 1268 Echuca, Vic 3564

# Region 9 Ordinary Meeting AGENDA

**Location:** Leeton Shire Council

23-25 Chelmsford Place, Leeton

**Time/date:** Friday, November 23 – 10.30am

### 1. WELCOME

Mayor Paul Maytom, Leeton Shire Council

### 2. ATTENDANCE

- 2.1 Attendance
- 2.2 Apologies

### 3. DECLARATION OF INTERESTS

- 4. MINUTES
  - 4.1 Minutes of the previous meeting on Friday, May 17, 2018 at 10.30am
- 5. BUSINESS ARISING
- 6. REPORTS
  - 6.1 Chairman's Report
  - 6.2 CEO's report

### 7. GENERAL BUSINESS

- 7.1 Update on 450GL public consultations
- 7.2 DOIW Water Allocation Presentation September 2018
- 7.3 Member Councils to consider nominating General Managers and officers to strengthen region support
- 7.4 Encouraging MDA membership of non-member Councils

### 8. DATE OF NEXT MEETING

Date: 7 March 2018

9. CLOSE

The Murray Darling Association acknowledges and thanks Leeton Shire Council for its support in hosting this meeting of Region 9.



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### CEO's Report November 2018

### **Previous appointments**

Date	Appointment	Location
October 5-10	<ul> <li>Meetings with</li> <li>New South Wales Department of Industry</li> <li>National Carp Control Plan</li> </ul>	Canberra
	<ul> <li>Commonwealth Environmental Water Office</li> <li>Department of Agriculture and Water Resources</li> <li>Murray-Darling Basin Authority</li> <li>CSIRO</li> </ul>	
October 24	Murray-Darling Basin Water Infrastructure Program public meeting	Echuca
October 26	Productivity Commission Murray-Daring Basin Plan: Five- year assessment draft report public hearing	Canberra
October 26	Hon. David Littleproud, Federal Minister for Agriculture and Water Resources	Canberra
November 1	Independent review of the Murray-Darling Basin joint governance agreements	Canberra
November 2	Murray-Darling Basin Water Infrastructure Program public meeting	Deniliquin
November 8	Hon. Tony Burke, Shadow Minister for Environment and Water	Melbourne
November 15	Murray-Darling Basin Water Infrastructure Program local government consultation session	Echuca
November 21-27	Tour of Region 10, 11 and 12	Various locations

### Productivity Commission Murray-Daring Basin Plan: Five-year assessment draft report

The MDA submitted a 10-page submission to the draft report, which is accessible on both the Productivity Commission and MDA websites.

Public hearings were held in Mildura, Murray Bridge, Shepparton, Dubbo and Canberra during October, with the MDA speaking to its submission at the Canberra event.

### **Murray-Darling Basin Water Infrastructure Program**

The Department of Agriculture and Water Resources held 14 public meetings between October 22 and November 6 regarding this program. Four sessions will occur across northern Victoria and southern New South Wales between November 14 and 16.

The MDA has produced a submission regarding the program, available to download from the Our Reports section of the MDA website.

A local government consultation session occurred in Echuca on Thursday, November 15.

### **Progress on AGM resolutions**

Progress relating to resolutions from the past five Murray Darling Association annual general meetings are now available to view online

A website has been created, documenting the outcomes of motions considered during previous AGMs held at Tumut (2014), Barooga (2015), Dubbo (2016), Renmark (2017) and Leeton (2018).

The website has been designed to allow members and stakeholders to track the work of the MDA. Copies of correspondence sent to the relevant government or agency regarding each resolution, as well as responses received, are available to download.

To access the pages, visit the MDA website and click on the "Conference Resolutions" link, located in the Annual Conference menu.

### **National Conference**

Balonne Shire Council and Toowoomba Regional Council will co-host the Murray Darling Association's Jubilee 75<sup>th</sup> National Conference.

The there-day event will be held at Toowoomba from Tuesday, October 22 to Thursday, October 24, 2019. The conference - themed *ReGeneration...* for a healthy Basin - will focus on various topics, including regenerative agriculture, renewable energy opportunities; climate change; and the continued implementation of the Basin Plan.

Registrations will open soon, with event details to be available on the MDA website.





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# Murray-Darling Basin Water Infrastructure Program Local government consultation session

### Mercure Port of Echuca Thursday, November 15, 2018 2.30pm-5.30pm

### **ATTENDEES**

**Department of Agriculture and Water Resources** 

Paul Morris	First Assistant Secretary, Water Division
Fleur Downard	A/g Director, Efficiency Measures Policy Section

**Regional peak bodies** 

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Murray River Group of Councils	Member councils:
Mayor Cheryl McKinnon – Chair	<ul> <li>Campaspe Shire Council</li> </ul>
(Loddon Shire Council)	<ul> <li>Gannawarra Shire Council</li> </ul>
Geoff Turner – Executive Officer	<ul> <li>Loddon Shire Council</li> </ul>
	Mildura Rural City Council
	Moira Shire Council
	Swan Hill Rural City Council
Riverina and Murray Joint Organisation	Member councils:
Mayor Kevin Mack – Chair	Albury City Council
(Albury City Council)	o Berrigan Shire
Ray Stubbs – Executive Officer	<ul> <li>Carrathool Shire Council</li> </ul>
	o Edward River Council
	Federation Council
	Griffith City Council
	Hay Shire Council
	<ul> <li>Leeton Shire Council</li> </ul>
	Murray River Council
	Murrumbidgee Council
	<ul> <li>Narrandera Shire Council</li> </ul>

### **Council representatives**

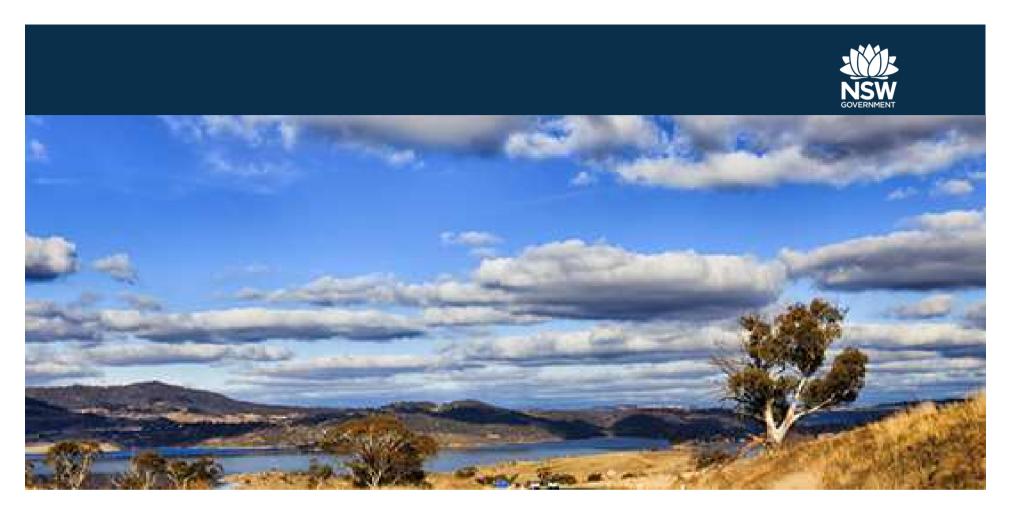
City of Greater Bendigo	Cr James Williams		
Berrigan Shire	Cr Ross Bodey		
	Cr Roger Reynoldson		
Buloke Shire Council	Cr David Pollard		
Campaspe Shire Council	Mayor Adrian Weston		
	Cr Neil Pankhurst		
	Cr John Zobec		
	Jason Russell - Chief Executive Officer		

Edward River Council	Mayor Norm Brennan	
Lawara River Council	•	
	Adam McSwain – General Manager	
Federation Council	Mayor Patrick Bourke	
Griffith City Council	Mayor John Dal Broi	
	Brett Stonestreet – General Manager	
<b>Greater Shepparton City Council</b>	Peter Harriott – Chief Executive Officer	
Leeton Shire Council	Mayor Paul Maytom	
Loddon Shire Council	Mayor Cheryl McKinnon	
	Cr Neil Beattie	
	Phil Pinyon – Chief Executive Officer	
Moira Shire Council	Cr Peter Mansfield	
	Mark Henderson – Chief Executive Officer	
Murray River Council	Mayor Chris Bilkey	
Department of Agriculture and Water	Paul Morris - First Assistant Secretary, Water	
Resources	Division	
	Fleur Downard - A/g Director, Efficiency Measures	
	Policy Section	

### **APOLOGIES**

Des Bilske	General Manager, Murray River Council		
Adrian Butler	General Manager, Federation Council		
Cr Melisa Hederics	Mayor, Wentworth Shire Council		
Gerard Jose	Chief Executive Officer, Mildura Rural City Council		
Anthony Judd	Chief Executive Officer, Buloke Shire Council		
Craig Niemann	Chief Executive Officer, City of Greater Bendigo		
Cr Dennis Patterson	Greater Shepparton City Council		
Rowan Perkins	General Manager, Berrigan Shire		
Ken Ross	Acting General Manager, Wentworth Shire Council		

Thirteen councils and two regional peaks, covering 20 local government areas and representing 483,224 people across northern Victoria and southern New South Wales, met on November 15 with the Department of Agriculture and Water Resources regarding the Murray-Darling Basin Water Infrastructure Project socioeconomic impact assessment criteria.



NSW MURRUMBIDGEE REGULATED WATER SOURCES

## Water Allocations - Current status & allocation update

Dol Water - Neeraj Maini and Priyantha Jayakody (PJ)| Presentation 18 September 2018

### This Talk

### **Overview of current status**

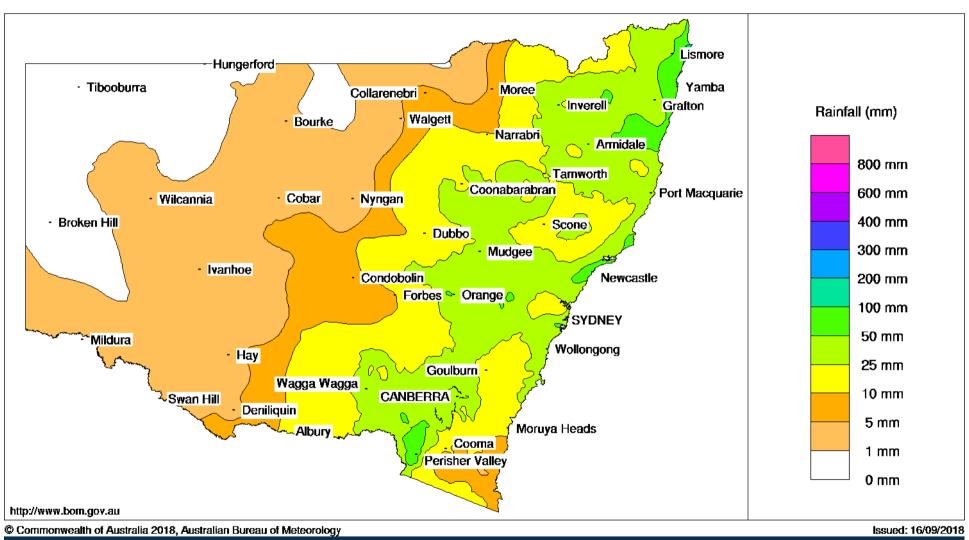
- Climate
- Inflows
- Snowy contributions

### Allocation update as of 17 September 2018

- Status of current water resources
- Allocation scenarios
- Water Allocation Statement

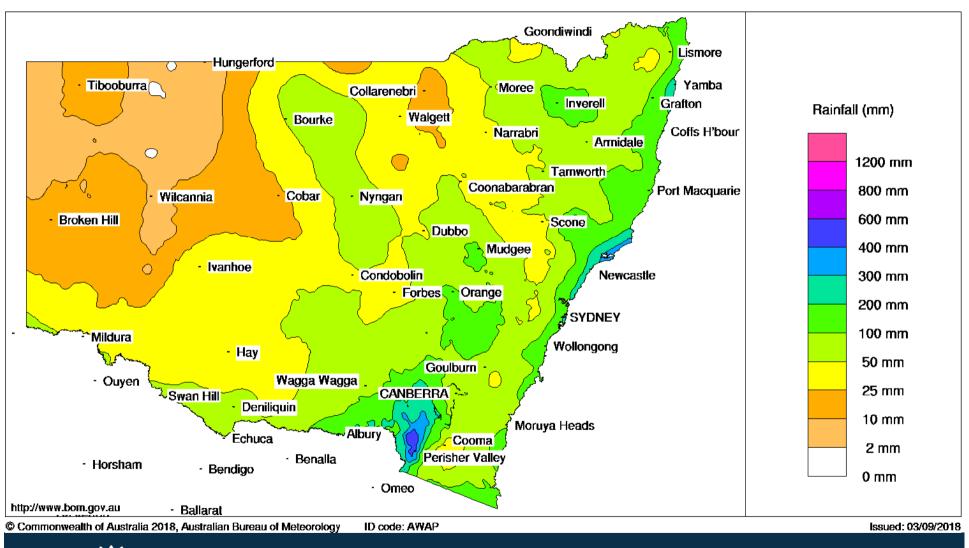


### New South Wales Rainfall Totals (mm) 1st to 16th September 2018 Australian Bureau of Meteorology



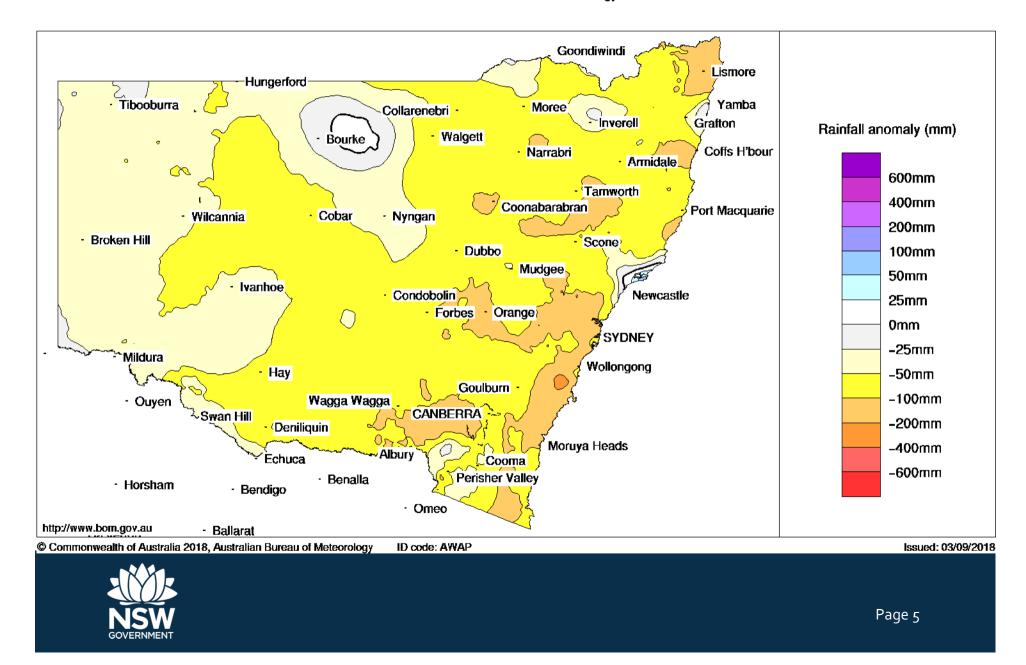


# New South Wales Rainfall totals (mm) 1 June to 31 August 2018 Australian Bureau of Meteorology





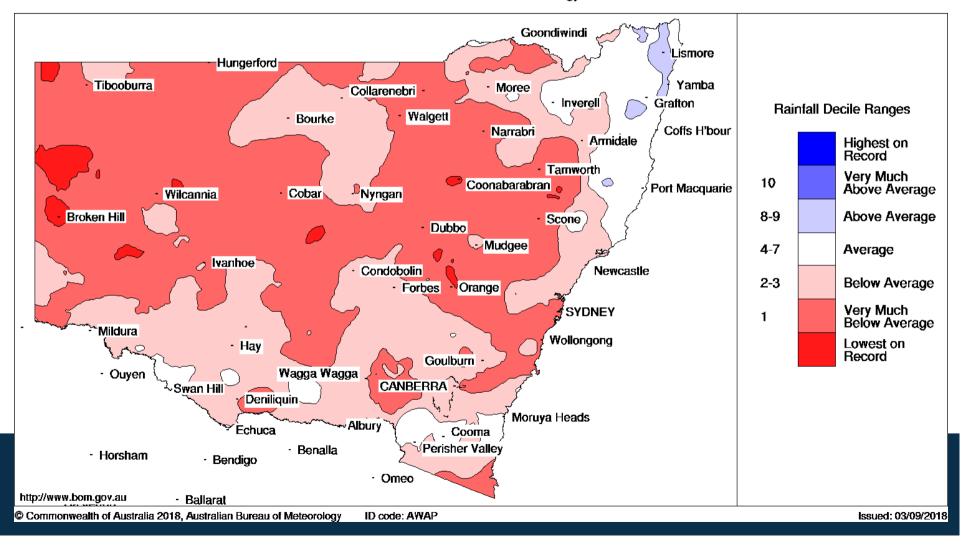
Rainfall anomalies (mm) 1 June to 31 August 2018
Australian Bureau of Meteorology

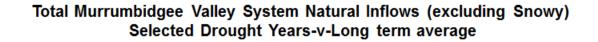


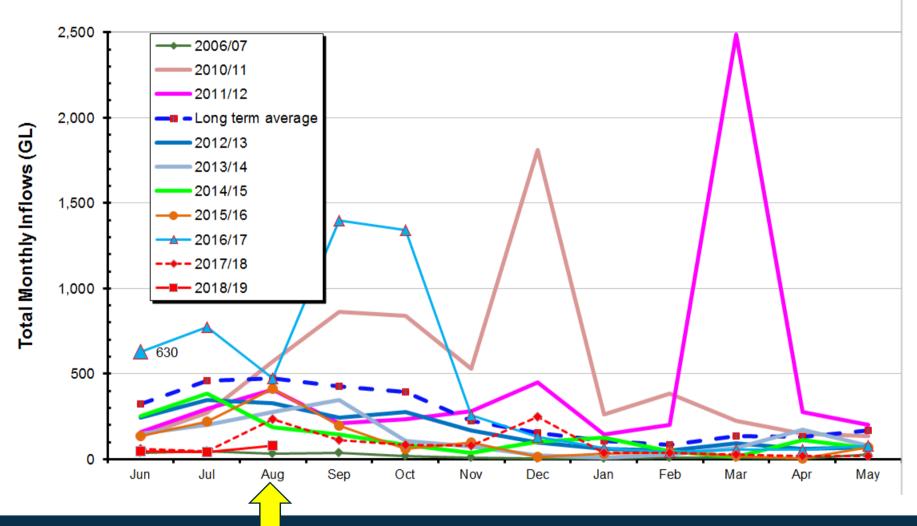
### Rainfall deciles - 18 month

New South Wales Rainfall Deciles 1 March 2017 to 31 August 2018

Distribution Based on Gridded Data Australian Bureau of Meteorology

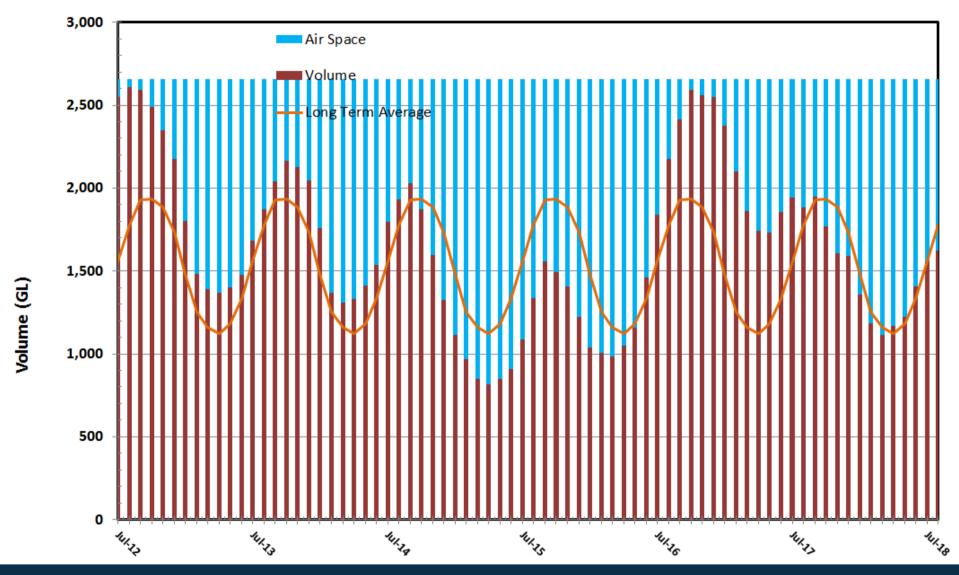








### Average Blowering and Burrinjuck Storages (GL)





# Burrinjuck reservoir volumes

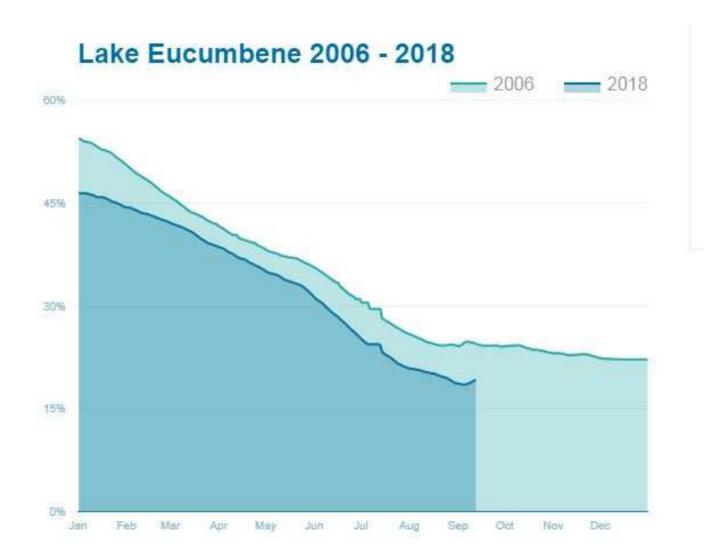




# Blowering reservoir volumes

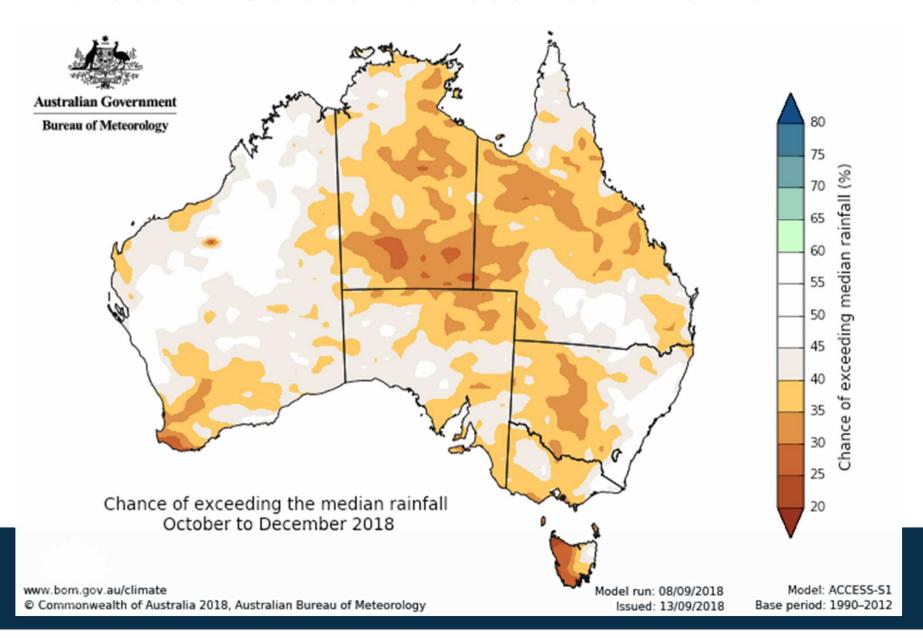




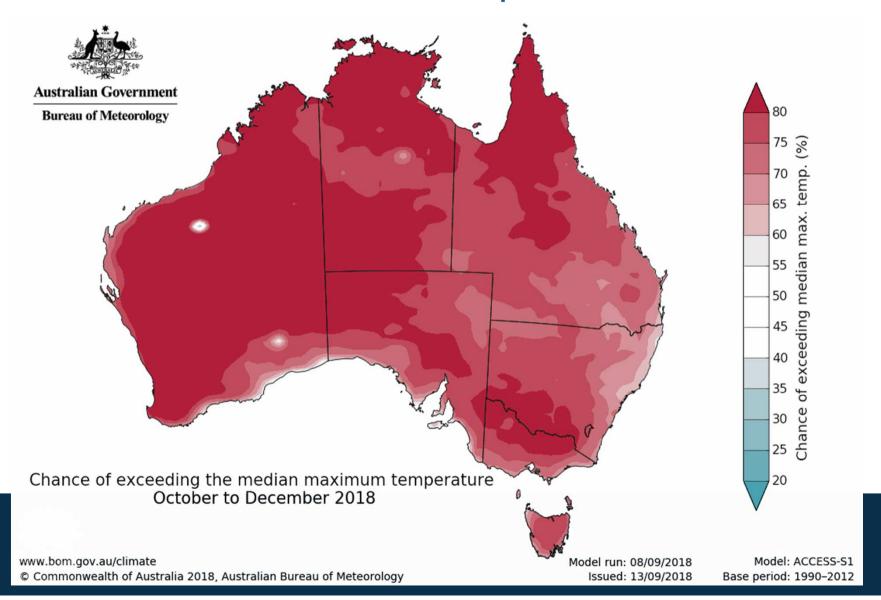




### Forecast - October to December - Rainfall



# Forecast - October to December maximum temperature



# Allocation update as of 17 September 2018

- > Status of current water resources
- Operational requirements
- > Existing commitments
- > Allocation scenarios
- > Water allocation statement



# Murrumbidgee resource assessment 17 September 2018

Items	Volume (GL)	Comments
Total resources		Active volume in storage (1647 GL), snowy RAR, inflows and recessions
Operational Requirements		
Volume required for system losses		Storage evaporation, transmission losses, Ops Loss main river & Yanco Ck.
EOS flow target	147	Flow committed to River Murray for rest of the year
Late season inflows	0	Inflows too late in the season
Storage reserves	50	End of season reserve
Total operational requirements	735	



# Murrumbidgee resource assessment 17 September 2018

Current Commitments	Volume (GL)	Comments
Carryover	408	From 2017/18 into 2018/19
IVT (carryover from previous year)	14	Undelivered IVT at start of year
EWA Account/s	72	Estimated balance
TWS	44	Town water allocation at 100% on 1 July 2018
Domestic & Stock	34	Domestic and stock at 100% 1 July 2018
High Security	345	95% HS announced on 1 July 2018
Conveyancing for IC's category	265	Conveyance licence
General Security allocations	113	GS allocation as at 1 Aug =6%
Total current commitments	1295	

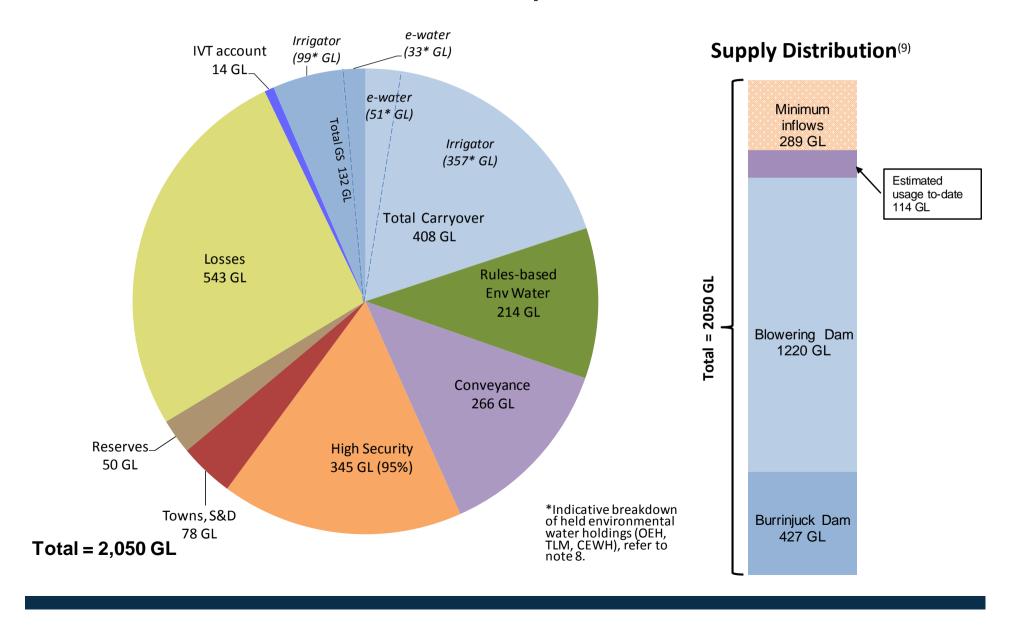


# Murrumbidgee resource assessment 17 September 2018

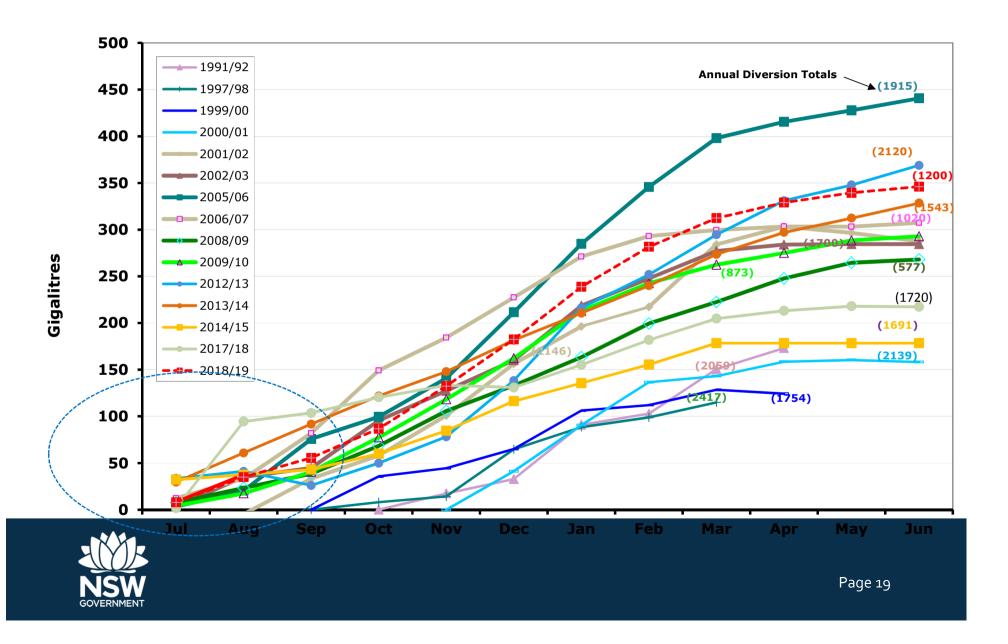
	Volume (GL)	Comments
Total resources	2050	Proposed GS allocation increment=1%
Total operational requirements	(735)	
Total current commitments	(1295)	
Additional resources	20	
Proposed Distribution		
Proposed General Security	19	Proposed GS allocation increment=1%
Conveyancing to Irrigation Corps	0.55	Conveyancing for IC's and River Pumpers



### NSW Murrumbidgee Resource Distribution 2018-19 – 17 September 2018



## Main river transmission losses



# Comparison with this time last year

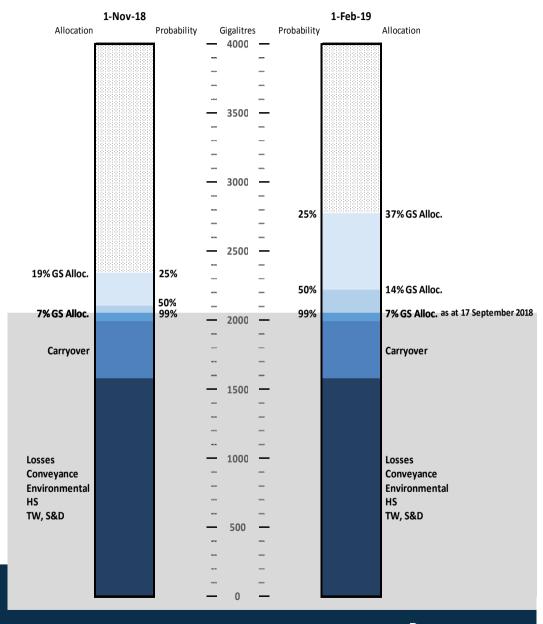
ltem		Mid Sep 2017 (GL)	Mid Sep 2018 (GL)	Comments
	Burrinjuck	616	430	Inflows are low since May
Storage*	Blowering	1,354	1,244	Reduced tributary inflows
Volume (GL)	Total	1,970	1,674	Overall 15% lower storage volume compared to last year
Losses (transmission, evaporation, operations)**		571	543	Similar
1 July IVT carry	over balance	100	-14	Reflects market pressures
Late Season Inflows		0	0	Similar
GS Available		33%	7%	Reduced water availability
Average GS Carryover		27%	22%	Lower this year



### as at 17 September 2018

# GS allocation forecasts under various inflow scenarios (as at mid September 2018)

Inflow Conditions	1 Nov 2018	1 Feb 2019
99 chances in 100 (extreme) (99%)^	7	7
9 chances in 10 (very dry) (90%)	7	7
3 chances in 4 (dry) (75%)	7	7
1 chance in 2 (mean) (50%)	9	14
1 chance in 4 (wet) (25%)	19	37







### **Water Allocation Statement**

17 September 2018

#### Murrumbidgee Valley

#### Water allocation update

Murrumbidgee general security allocation has increased by 1 per cent to 7 per cent of entitlement. This means, with carryover, overall general security water availability is 29 per cent in the valley. Intermittent rain in the upper catchment has triggered some inflows into storages, with downstream tributaries contributing below Wagga Wagga. However, system flows into the valley are still well below the long term average for this time of year.

In the last 18 months (March 2017 to August 2018) the Murrumbidgee system has experienced extremely low inflows - in the lowest four per cent on record.

	High Security	General Security	Average Carryover
Murrumbidgee	95%	7%	22%

#### Storage levels (as at 14 September 2018)

- Blowering Dam is 74 per cent full decreasing holding 1,223,000 megalitres (ML).
- Burrinjuck Dam is 42 per cent full increasing holding 432,000 ML.

#### Climatic outloo

The Bureau of Meteorology outlook for October to December indicates conditions for the region are likely to remain dry with very much above average temperatures.

The main climate drivers of El Niño-Southern Oscillation (ENSO) and the Indian Ocean Dipole (IOD) remain neutral, though most international models show El Niño likely to develop by the end of spring. El Niño during spring typically results in below average rainfall for northern and eastern Australia. In summer, its drying influence is mainly focused on tropical regions of Australia, although the possibility of high temperatures elsewhere remains high.

#### Trade

Water allocation can currently be traded within and out of the Murrumbidgee Valley, but trade into the Murrumbidgee Valley is closed. Water users are encouraged to monitor the WaterNSW website (www.waternsw.com.au) for information about the Murrumbidgee intervalley trade (IVT) account balance and status of trade.

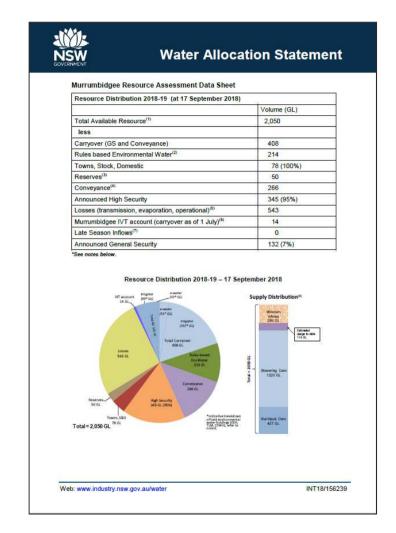
#### Next announcemen

The next water allocation statement for the regulated Murrumbidgee Valley will be issued on Monday 1 October 2018. The forecast improvements under various inflow scenarios, including the rocket diagram will be included in the mid-October water allocation statement.

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

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### Allocation updates will continue to be published fortnightly







### **Water Allocation Statement**

#### Notes

- 1) Total available resource total active storage volume (Blowering & Burrinjuck Dams) at the day of assessment plus any usable flows in transit plus drought inflows for rest of the year plus Snowy Hydro's assured Required Annual Release (RAR) (including any fits, (pre-release) from the prory early, as well as estimated usage to date. Snowy Hydro's net Journam Refease for this year (2018-19) to date is 699 GL, and 2006L of fits release was pre-released in 2017-18.
- Rules-based environmental water water required to be set aside under water sharing plans to provide for riverine environments. Includes end-of-system flow requirements (currently 142CL) and environmental water allowances (EWA1 = 50GL, EWA2 = 22GL, EWA3 = nl). Excludes Sicence-based environmental water known as held environmental water (HEW). This total volume typically reduces as commitments are met and water is used during the year.
- Reserves required primarily under statutory plans, and mainly used for emergency purposes and critical needs. Includes 25GL per dam as an operational reserve, and Provisional Storage Volumes (PSV1 = nil, PSV2 = nil)
- 4) Conveyance entitlement a category of access ficence originally issued to Irrigation Corporations to facilitate delivery of water through their channel systems. Allocation to this category is prescribed in the water sharing plans and is a function of high and general security allocations. (This category of licence in the Murrumbidgee valley, like general security, can carry over up to 30% of entitlement).
- 5) Losses is the best estimate of the volume required to run the river under dry conditions to meet demands for the remainder of the water year. This includes storage evaporation, transmission losses and operational loss. This estimate is regularly updated as the year unfolds.
- IVT account this represents the carryover value into 2018/19. As the account status was negative, meaning Murray water is 'owed' to the Murrumbidgee that cannot be delivered, this volume of 14GL must be set aside from allocation in the Murrumbidgee.
- 7) Late Season Inflows is the estimated inflow volume that will arrive into storage late in the year, after the peak irrigation demand season (usually post-February). This water cannot be allocated to water users at the start of the water-year, otherwise there could be an expectation that the water is available for delivery and use before it is captured in storage.
- 5) Held environmental water (HEW) licenced water administered by environmental water holders is reported here, with the associated portions of general security allocation and conjover also identified in the above pic chart. This reporting of the commonweal water is the total credited to accounts (not usage) and is early continued to the confidence of the confidence
- 9) Supply Distribution the distribution of supply includes volumes at the time of the assessment for the following categories: active volumes in the dams (excludes early release volumes of next year's Snowy Hydro commitments), indicative usage to-date (may be estimates prior to reconciliation with hydrographic updates) and assumed minimum future inflows (includes Snowy Hydro's guaranteed inflows for the water year, and late season inflows). Towards the latter half of the water year, it will also include any estimated shortfall in meeting the following next years' high priority needs.

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

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 Many changes made over recent years to include more and better information



### Water Allocation Statement

Murrumbidgee Resource Assessment - Comparison with this time last year

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<sup>\*</sup> Storage volumes at time of the resource assessment.
\*\* Includes assumed loss from downstream of storages along the entire river length.

#### Chances of improvement

The chances of improved inflows conditions and increased allocations are given in the table below. They are based on all years of record. If conditions remain dry, consideration will be given to forecasting based on the 'Dry Tercile', meaning that only the driest one-third of years on record will be used in the analysis. This gives a more likely outlook for dry conditions, and reduces the forecast water allocations.

#### Forecast General Security allocation (per cent) #

(Any carryover water can be added to these indicative allocations)

Potential Inflow Conditions	1 Nov 2018 General Security Allocation	1 Feb 2019 General Security Allocation 7
99 chances in 100 (extreme) (99%)^	7	
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<sup>#</sup> Storage behaviour modelling using data for all years of record and average general security carryover of 22%.

^ August conditions were 96% AEP.

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

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### **Water Allocation Statement**

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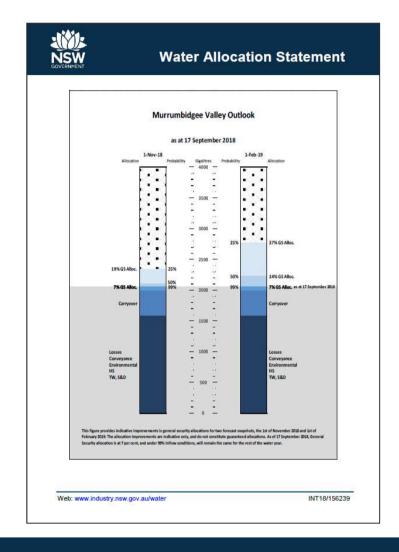
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### Feedback on the Statements welcome





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"Includes assumed loss from downstream of storages along the entire river length.

