How we make decisions

The Department of Planning, Industry and Environment is supporting the health and resilience of rivers and wetlands by delivering water for the environment where and when it is needed.

We use the best available science, management expertise and experience to manage water across the landscape.

This statement of annual priorities identifies the waterways and wetlands that are likely to receive water.

As rainfall is hard to predict, our decision-making process considers:

- · expected availability of water in the coming year
- conditions of the previous year
- current health of the plants and animals in these ecosystems.

Community-based environmental water advisory groups provide feedback and advice to the Department on the management of water for the environment.

The NSW Government works with the Commonwealth Environmental Water Holder to manage water in the catchment.

What is water for the environment?

Water for the environment is a share of the water in dams and rivers that is set aside to support the long-term health of local rivers, creeks and wetlands. Healthy rivers carry water to homes, farms, schools and businesses. In the Murrumbidgee catchment, rivers and wetlands are important cultural and spiritual sites for Aboriginal people, as well as the broader community.

About the Murrumbidgee catchment

The Murrumbidgee catchment covers 81,527 square kilometres and includes 26 storage or diversion structures, 1690 kilometres of the river and surrounding wetlands. The climate conditions range from alpine in the Snowy Mountains to semi-arid on the Riverina plains.

Wetlands throughout the Murrumbidgee support threatened species listed under the Commonwealth Environment Protection and Biodiversity Conservation Act 1999 and NSW Biodiversity Conservation Act 2016.



NSW DEPARTMENT OF PLANNING, INDUSTRY AND ENVIRONMENT

Murrumbidgee catchment

Annual Environmental Watering Priorities 2019–20



Expected environmental wate	r volumes available at 1 July 2019
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Source	Maximum volume available	Volume expected at 1 July under current conditions
Planned environmental water		
Environmental water allowance (1)	100 gigalitres linked to announced general security allocations	0 gigalitres
Environmental water allowance (2)	Triggered by Burrinjuck Dam inflows and releases	Up to 15 gigalitres
Environmental water allowance (3)	Linked to announced general security allocations	-
Water licenced to NSW		
General security	31.4 gigalitres	0.2 gigalitres
Supplementary	6.7 gigalitres	Dependent on surplus flows
Lowbidgee supplementary access licence (South Redbank/Yanga)	148 gigalitres	Dependent on surplus flows
Water licenced to the Commonwealth		
High security	13.6 gigalitres	Up to 12.9 gigalitres
General security	283 gigalitres	Up to 15 gigalitres
Conveyance	41.3 gigalitres	26.5 gigalitres
Supplementary	22 gigalitres	Dependent on surplus flows from unregulated tributaries
Lowbidgee supplementary	393 gigalitres	Dependent on surplus flows

Note: This is an indicative summary of volumes expected to be available. For further detail and information on available volumes, please contact the region via DPIE enquiries on 1300 361 967.

1 gigalitre = 1000 megalitres

2.5 megalitre = 1 Olympic swimming pool

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Cover photo: Southern bell frog at private wetland in Lower Murrumbidgee Photo: Carmen Amos/DPIE.

Page 2 infographic: J Humphries/DPIE. ISBN 978-1-925974-27-0 EES 2019/0280 July 2019



Water for rivers and wetlands

In 2019–20, water managers will continue to build on the success of previous years through the careful management of water for the environment.

During 2018–19, Department of Planning, Industry and Environment (DPIE) worked with the Commonwealth Environmental Water Office to deliver around 130 gigalitres of water for the environment to Yanga National Park and North Redbank wetlands. Flows in the lower Murrumbidgee improved native fish habitat following record heat wave conditions and an associated fish kill at Redbank weir pool. Water was also used to maintain refuge habitats in the Murrumbidgee and Coleambally irrigation areas, Gayini Nimmie-Caira and Junction (Murrumbidgee and Murray) wetlands.

This year managed watering events will focus on maintaining drought refuge habitat for southern bell frogs, native fish, waterbirds and other aquatic species. Water managers plan to supplement existing system flows to provide the maximum benefit to plants and animals. Watering events will aim to restore a more natural flow pattern to support a robust food web and other system functions. Water will be managed to provide essential connections between the river and floodplain wetlands to aid in the movement of essential nutrients and native fish.

Weather and water forecast

In the Murrumbidgee catchment, warmer and drier than average conditions are forecast for May to July 2019, with the possibility of continuing dry conditions as the 2019–20 season progresses. Water management plans reflect this dry outlook.

Water managers have prepared watering plans that take into consideration a range of weather and water availability scenarios in case it rains more or less than expected. This is known as Resource Availability Scenario planning. Dry to very dry conditions are forecast for the Murrumbidgee catchment in 2019–20.

Key planned actions for 2019–20

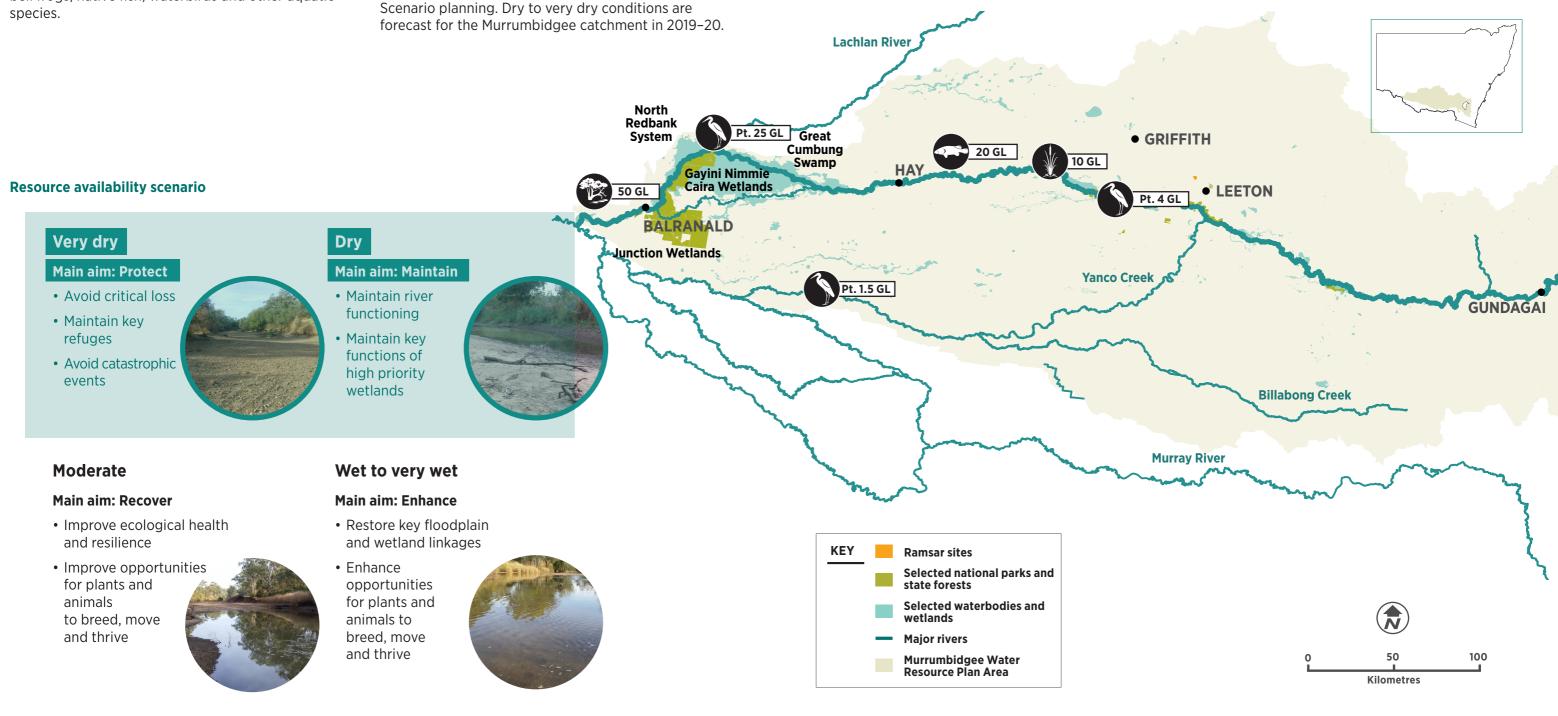
Waterbirds

• Flows (up to 30 gigalitres) are planned to provide refuge habitat for waterbirds, turtles, frogs and other aquatic species in core areas of Yanga National Park, Gayini Nimmie-Caira and North Redbank wetlands. Key Australasian bittern habitat will be watered in the Murrumbidgee and Coleambally irrigation areas and Yanco Creek systems.



• Key mid-Murrumbidgee sites including Yarradda, Darlington, Gooragool and Mantangry lagoons will be provided with water via pumping (10 gigalitres).

Map of proposed annual priority targets in the Murrumbidgee Water Resource Plan Area 2019–20





• If resource availability improves significantly flows (up to 20 gigalitres) are planned to maintain instream and deep water off-stream habitats for native fish and restore a more natural flow pattern to support native fish populations.



• If resource availability improves significantly, flows (up to 50 gigalitres) are planned to connect the Lowbidgee lakes and facilitate the removal of the effects of three weirs within the lower Murrumbidgee river channel (assumes significant resource improvement or supplementary access).