

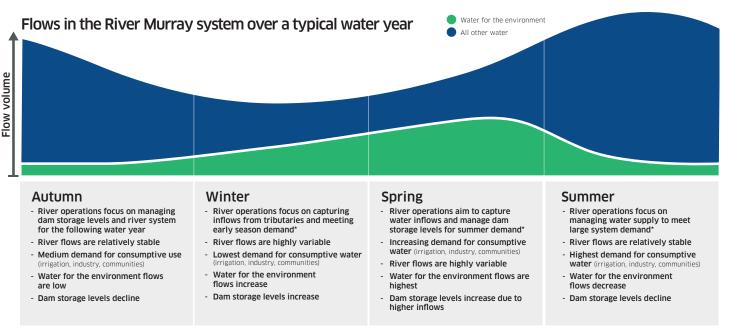


# Flows in the River Murray System – March 2022

Flows in the River Murray System vary widely depending on a range of factors, including rainfall, inflows, evaporation, and demand for water for human use.

At any given time, water flowing through the river is destined for various uses, including irrigation, industry, communities, the environment, and meeting South Australia's flow entitlement. The exact mix of these flow components is determined by demand and water availability, amongst other factors.

The graphic below is indicative of how water flow is managed throughout the seasons across a typical year.



\* including meeting South Australia's flow entitlement

## Water for the environment

Overall, water for the environment is a small percentage of the total water used in the Murray-Darling Basin.

The volume of water for the environment used under water entitlements has increased slightly over the past five years, as more water became available. The average use over this period was 20.4% of the total water used in the Basin.

Importantly, water held for the environment uses the same entitlement framework as consumptive users. In any given year the amount of water available for delivery to key environmental sites is determined based on the same rules that apply to all other consumptive water uses.

## Types of water for the environment

Water for the environment can be categorised as:

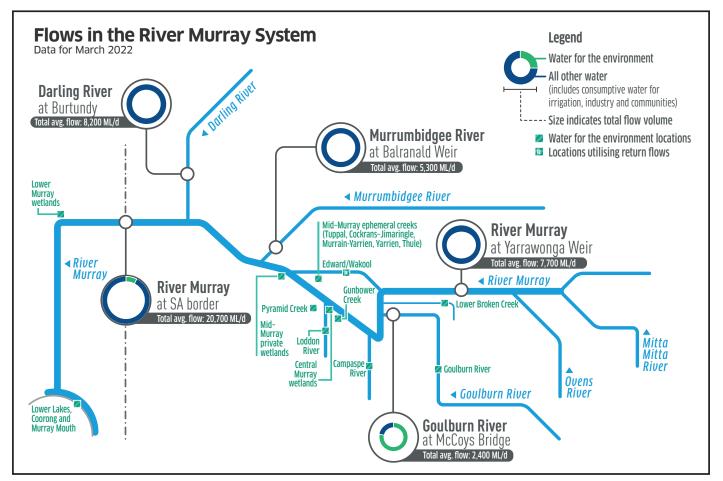
- 'Planned' environmental water water that flows through the river system that is typically managed through rules outlined in state water resource plans and is used to improve the health of the environment.
- **'Held' environmental water** is water that is held by government agencies and is delivered where and when it is needed in the river system. It is water that is allocated to relevant government agencies through water licenses for environmental use.

#### Who holds and manages water for the environment

(based on the long term average diversion limit for entitlements held for the environment at June 2020)

Water manager	% of total
Commonwealth Environmental Water Holder Jointly held Victoria New South Wales South Australia	66% 23% 5% 4% 2%

Source: Southern Connected Basin Environmental Watering Committee Annual Report



Information in the figure above is for the month of March 2022 and may not include recent rainfall or delivery of water for the environment in the River Murray system. Information in this figure is an average estimate over the past month and formal accounts from Basin state governments may vary. Water for the environment in the figure above represents water that is held by environmental water holders, through entitlements. Other water that flows through the river can also achieve environmental outcomes.

## **River flow information**

The March flow to South Australia comprised of water for South Australia's entitlement, traded volumes, unregulated flow and water for the environment. Water for the environment consisted of water delivered from the Goulburn, Broken, Campaspe, and Loddon rivers.

For the latest information on water for the environment see the River Murray weekly report.

## Intended environmental outcomes

• Water for the environment takes time to move through the system. Water from past watering events is still moving through the River Murray as return flows. Environmental water holders can also use water for the environment by extracting allocations directly from the river. These allocations are often used for small-scale watering events rather than having water delivered from a storage.

Location	Return flows used	Intended environmental outcome(s)	
Edward/Kolety-Wakool River system	Yes	support native fish breeding and recruitment	
River system		support water quality	
Lower Broken Creek	n/a	<ul> <li>protect and increase native fish populations and avoid excessive build- up of azolla fern</li> </ul>	
Goulburn River	n/a	<ul> <li>deliver an autumn fresh to cue native fish to move, increasing their dispersal and abundance</li> </ul>	
		support native bank vegetation	
Campaspe River	n/a	<ul> <li>provide habitat to help protect and boost native fish</li> </ul>	
		maintain resident platypus numbers	
Loddon River	n/a	<ul> <li>maintain an adequate depth in pools for aquatic plants</li> </ul>	
		provide habitat for fish and waterbug	
Pyramid Creek	n/a	maintain connectivity between pools	
		<ul> <li>provide habitats for native fish and waterbugs</li> </ul>	
Gunbower Creek	No	<ul> <li>maintain breeding habitat and food resources for native fish such as Murray cod</li> </ul>	
Central Murray Wetlands	No	<ul> <li>create habitat for native waterbirds, frogs and turtles</li> </ul>	
		<ul> <li>stimulate the germination of aquatic vegetation</li> </ul>	
Mid-Murray private	No	<ul> <li>provide habitat for southern bellfrogs and waterbirds</li> </ul>	
wetlands		maintain wetland vegetation condition	
Mid-Murray ephemeral	No	<ul> <li>rovide habitat for southern bellfrogs and waterbirds</li> </ul>	
creeks (Tuppal, Cockrans–Jimaringle, Murrain–Yarrien, Yarrien, Thule)		<ul> <li>maintain fringing river redgum health</li> </ul>	
Lower Murray wetlands	No	<ul> <li>provide healthy wetland refuge habitat for a range of native plants and animals</li> </ul>	
Lower Lakes, Coorong and Murray Mouth	No	<ul> <li>maintain barrage releases to support fish movement through the barrage fishways</li> </ul>	
		<ul> <li>reduce salinity in the Coorong, supporting the Coorong food web including ruppia, estuarine fish and invertebrates</li> </ul>	

### More information on river flows and water for the environment

Live River Data riverdata.mdba.gov.au River Murray Weekly Report mdba.gov.au/river-information/weekly-reports Water sharing in the River Murray www.mdba.gov.au/river-information/water-sharing Water use in catchments www.environment.gov.au/water/cewo/catchment FLOW Monitoring, Evaluation and Research flow-mer.org.au

**Delivering water for the environment** mdba.gov.au/managing-water/water-for-environment/water-over-time