

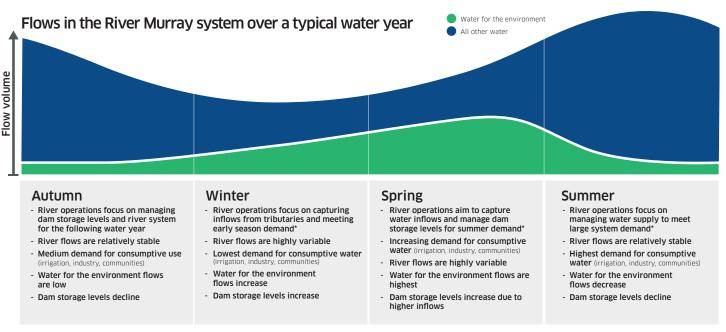


Flows in the River Murray System - April 2021

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 per cent 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

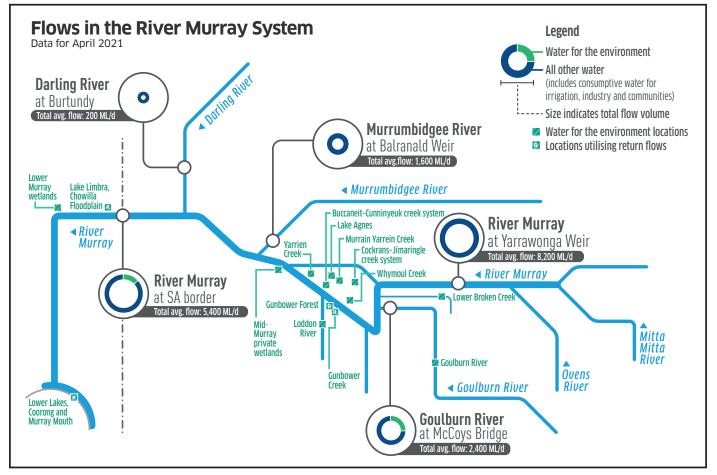
Water for the environment can be categorised as:

- **'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 2019)

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



Report

Information in the figure above is for the month of April 2021 and may not include recent rainfall or delivery of water for the environment in the 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 April flow to South Australia comprised of water for South Australia's entitlement, as well as traded volumes and water for the environment. Delivery of water for the environment consisted of 20 GL ordered at the South Australian border and a small volume delivered from the Broken Creek and Loddon River.

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)
Gunbower Creek	Yes	 maintain breeding habitats and food resources for native fish such as Murray cod
Gunbower Forest	Yes	 maintain feeding and refuge habitat for waterbirds, small- bodied native fish, turtles and frogs
		 maintain water depth to support wetland plants to grow
Buccaneit-Cunninyeuk Creek system	No	provide habitat to increase native fish numbersmaintain river red gum health
Cockrans-Jimaringle Creek	No	provide habitat to increase native fish numbersmaintain river red gum health
Murrain Yarrein Creek	No	provide habitat to increase native fish numbersmaintain river red gum health
Yarrein Creek	No	provide habitat to increase native fish numbersmaintain river red gum health
Mid-Murray private wetlands	No	provide wetland habitat for waterbirds and southern bellfrogsmaintain river red gum and black box health
Lake Agnes	No	provide wetland habitat for waterbirds and southern bellfrogsmaintain river red gum and black box health
Whymoul Creek	No	 provide habitat for native fish, waterbirds and southern bellfrogs
		maintain river red gum health
Goulburn River	n/a	 protect and boost native fish numbers
		 improve habitat for small bodied native fish and maintain waterbug communities
		 increase growth of water dependent plants in the river channel
		 encourage seed germination on the riverbanks to help stabilise the banks
Loddon River	No	 maintain an adequate depth in pools for aquatic plants and to provide habitat for waterbugs, fish and rakali (water rats)
		 provide continuous flow through the reach, to maintain water quality
Lower Broken Creek	n/a	maintain pool habitat for native fish and waterbugs
	N	access to food and habitat for platypus and in-stream vegetation
Lake Limbra, Chowilla Floodplain	Yes	 provide healthy wetland refuge habitat for a range of native plants and animals
Lower Murray wetlands	No	 provide healthy wetlands refuge habitat for a range of native plants and animals
Lower Lakes, Coorong and Murray Mouth	Yes	 maintain barrage releases to support native fish migration through barrage fishways
		reduce salinity in the Coorong, supporting the Coorong food web

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