

Australian Government

Commonwealth Environmental Water Holder



View from the CEWH

Partnerships, progress and persistence

River Reflections
19 June 2024

Dr Simon Banks

Commonwealth Environmental Water Holder





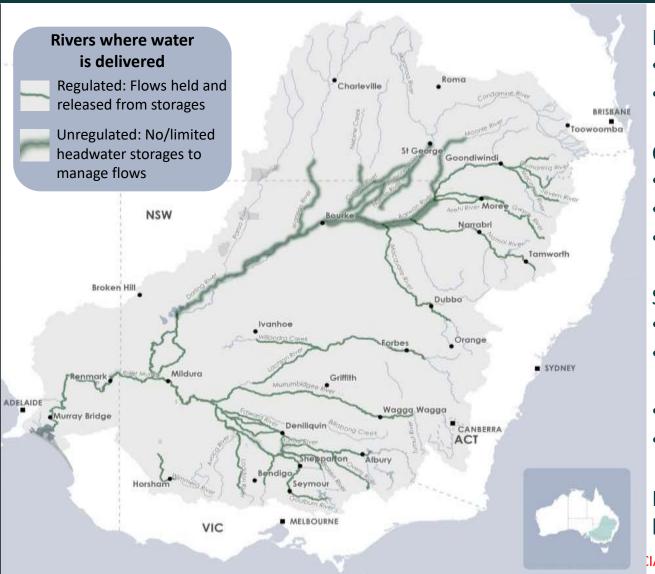
We acknowledge
the Traditional
Owners of Country
throughout
Australia and
recognise their
continuing
connection to land,
waters and culture.
We pay our respects
to their Elders past
and present.

Artist: Commonwealth
Environmental Water Holder staff,
under the guidance of Rebecca

Overview

- Role of the CEWH
- Water use and activities
- Partnerships
- Progress
- Persistence
- Key issue to address

Commonwealth Environmental Water Holder



Huge public asset

- ~2033 GL of water/yr (long-term diversion limit equivalent)
- 124 entitlement types across 19 catchments

Complex environment

- 1 million square kilometres
- 4 states and a territory
- More rules and regulations than any other

Significant impact

- Flows to 26,000 km of Basin waterways
- Almost 16,500 GL delivered since 2009 (33 Sydney Harbours of water)
- Inundated 420,000 ha of freshwater habitats
- Support 11 internationally significant wetlands

Informed by monitoring and science, experiences and knowledge

Use of water for the environment in 2023-24



This year we used water for the environment to support:

- waterbird feeding habitat
- native fish breeding and movement
 - connecting flows between rivers,
 particularly in the northern Basin and
 down the Darling-Baaka
 - o mitigate poor water quality
- aquatic, riverbank and wetland plant condition and re-establishment
- threatened species including the southern bell frog, Murray hardyhead, Australasian bittern and regent parrot
- flushing of salt from the River Murray.

Now planning 2024-2025

We plan for a range of scenarios



CONDITIONS

Aim of watering

VERY DRY

Protect

- Avoid critical loss
- Maintain key refuges
- Avoid catastrophic events



DRY

Maintain

- Maintain river functioning
- Maintain key functions of high priority wetlands



MODERATE

Recover

- Improve ecological health and resilience
- Help plants and animals breed, move
 and thrive



WET TO VERY WET

Enhance

- Restore key floodplain& wetland linkages
- Help plants and animals breed, move and thrive

We use different water management options

DELIVER



Deliver water to meet identified environmental demands

CARRY OVER



Carry water over for use in the next water year

TRADE



Trade (sell or buy) water for equal or greater environmental benefit

or fund environmental activities

Carrying over Commonwealth environmental water

- An essential management option
- Used by both irrigators and environmental holders
- We all follow the same rules
- Our carryover is a small percentage of storage in dams
- Similar use of carryover as irrigators

2013-2022	Irrigators	Environment water holders
Average carryover of available water	30%	28%
Carryover as percentage of public storages	27% (yellow drops)	8% (green drops)



Trade and environmental activities

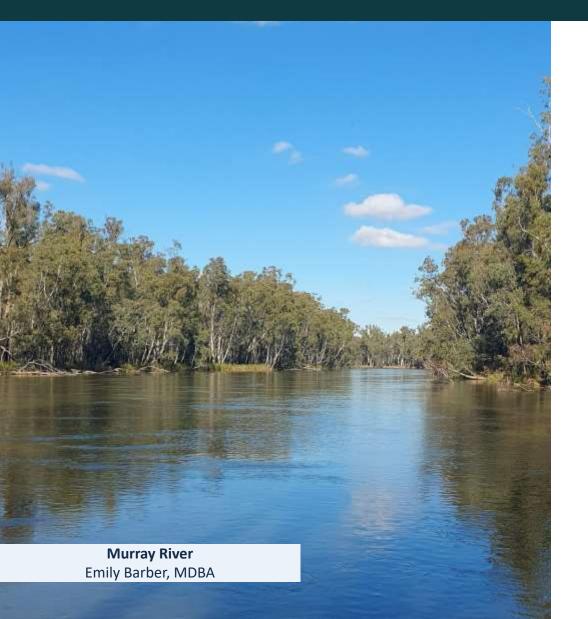
Tea gardens fishway project







Case study: Working with partners to amplify benefits



Coordinated Spring flows

- Commonwealth environmental water is released from Hume Dam + coordinated to occur with multiple other flows
- Re-use occurs, sending flows all the way to South Australia
- Benefits internationally significant wetlands, and populations of golden perch and the Australasian bittern, among others.

The CEWH's Science Program Flow Monitoring, Evaluation and Research (Flow-MER)





Despite the gains there is still more to do

- Population declines require long-term and sustained action
- Must continue and increase flows down the length of rivers
- Still too many cease-to-flow events in the north
- Operational and physical constraints getting in the way
- Science is showing us where we can do more with environmental water









The next phase of Flow-MER



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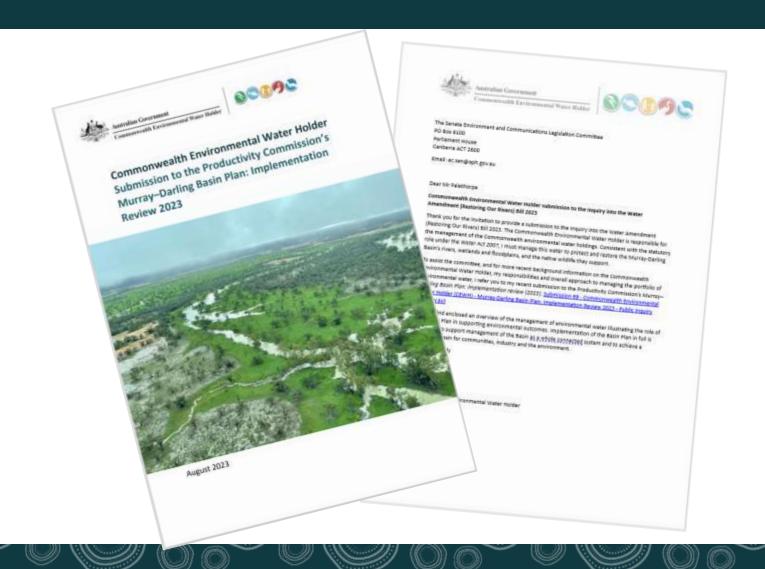
- Flow-MER2.0 monitoring phase launching 1 July 2024
- 9 organisations over 7 years on the ground over next 5 years
- Expands on current program:
 - Additional sites in the Northern Basin (overall increase from 7 to 10 areas across the Basin)
 - Increased Area footprint to provide greater flexibility and responsiveness to watering events
 - Embedding First Nations knowledge and science
 - Greater knowledge exchange between providers, and with all stakeholders

What the next phase will reveal

Through our monitoring and science program, by 2029 we will know more about:

- 1. climate change
- 2. First Nations science and knowledge
- 3. alteration of flows
- 4. monitoring and evaluation techniques
- 5. non-flow drivers
- 6. regional communities' knowledge/needs

Advocating for change



Water quality: A serious problem that needs attention

- Water quality a shared responsibility
- All water management plans must include options beyond the use of environmental water
- We have plans in place for our water use
- Water quality issues will continue, possibly worsen



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