

# Projects

This document shares the One Basin CRC projects underway as at May 2024.

To learn more or get involved, visit [onebasin.com.au](https://onebasin.com.au) or email [admin@onebasin.com.au](mailto:admin@onebasin.com.au)



**Project title**



**Lead regional hub**



**Project lead**



**Duration**



## Round 1 projects

Putting people at the centre: towards transforming climate risk assessment for water security and delivery	Mildura	Holger Maier	3 years
Unlocking collaborations for transformation: towards a platform for data and knowledge sharing	Griffith	Tahmid Nayeem	3 years
Water futures	Loxton	Margot Rawsthorne	3 years
Understanding future leadership needs	Loxton	Hannah Feldman	3 years
Stories of One Basin: First Nations knowledge and Indigenous-led research to address climate change	Goondiwindi	Peta Jeffries	3.5 years
Water banking for enhanced drought resilience	Loxton	Ilka Wallis	3 years
Future governance for water-limited communities	Griffith	Melissa Nursey-Bray	2.5 years
Reducing uncertainties and enabling multiple benefits in water delivery operations	Griffith	Serena Hamilton	3 years
Incentivising and investing in climate adaptation and the adoption of sustainable basin management practices	Loxton	Nicholas Pawsey	2 years

Project title

Lead regional hub

Project lead

Duration



## QuickStart Projects

Irrigation demand forecasting for multi-scale system storage control optimisation	Griffith	Joseph Guillaume	1 year
Organic waste conversion: Novel biological projects to increase agricultural production and reduce environmental impacts	Goondiwindi	Roger Knight	6 months
Shifting availability: the implications of climate change	Mildura	Avril Horne	1.2 years
Water infrastructure critical component anomaly detection and health prediction prototype	Griffith	Joseph Guillaume	1 year
Opportunities and risks associated with identifying, sourcing and treating brackish groundwater	Loxton	Michael Leonard	1.5 years
Predicting the impact of climate change on irrigation demand across the One Basin	Loxton	Paul Petrie	10 months
Equity and vulnerability in a drying basin: water sharing policy and quality of life in towns	Goondiwindi	Vicki Martin	12 months
Citizen science: integrating community groups into basin-scale fish tagging and recovery programs	Griffith	Lee Baumgartner	1.2 years
Building capacity to adapt to a more variable water future	Griffith	Avril Horne	1.3 years
River health engagement	Loxton	Craig Copeland / Braeden Lampard	1.3 years

Project title

Candidate

Regional hub

Host university

Start date



## PhD projects

Cyanotoxin risk in recycled water used for food crop irrigation	Shayne Faulkner	N/A	Flinders	Jan 23
Designing effective foresight processes to anticipate and prepare for climate change in the MDB	Camaria Holder	Mildura	ANU	Aug 23
Ecological and physiological functioning of a native grain production system	Anita Bhusal	Goondawindi (Narrabri node)	U Sydney	Jan 24
Regenerative agriculture impacts and opportunities	Wiyanda Naufal	Goondawindi (Narrabri node)	U Sydney	Jan 24
Geospatial modelling of region-scale crop water-use to forecast climate change impacts on irrigation demand	Shahin Solgi	Loxton	CSU	Mar 24
Multi objective model predictive control for pumped water distribution systems incorporating renewable energy	Kelsy Burns	Mildura	U Melbourne	Mar 24
Water Futures: Community change in the context of conflict	Lang Zheng	Mildura	U Sydney	Apr 24