



We acknowledge the First Nations peoples as the Traditional Owners and Custodians of the lands, waterways and skies of the Murray-Darling Basin. We respect their continuing connection to culture and Country, and we thank them for their knowledge and science and the values reflected in these data.

Flow-MER Microinvertebrates

Dataset name	Flow-MER Microinvertebrates 2014-2023		
Dataset citation	CEWH Flow-MER (2023) Microinvertebrates. Flow-MER Program. Commonwealth Environmental Water Holder, Australian Government Department of Climate Change, Energy, the Environment and Water. Sourced from https://data.gov.au/data/dataset/flow-mer-microinvertebrates on [date-sourced].		
Description	<p>Microinvertebrates are measured as part of the food-web monitoring of the Commonwealth Environmental Water Holder's (CEWH) Flow-MER program in wetlands and rivers of the Murrumbidgee river system, Gwydir river system and the junction of the Warrego and Darling rivers. The data set includes measures of abundance as density/litre with pragmatic identification into higher taxonomic groups where species identification is not practical.</p> <p>The CEWH's Flow-MER program examines the contribution of Commonwealth environmental water to the environmental objectives of the Basin Plan 2012 (Basin Plan) and is assisting the CEWH to demonstrate environmental outcomes and adaptively manage the water holdings. Monitoring and evaluation is focused in seven Selected Areas: the Junction of the Warrego and Darling rivers, Gwydir river system, Lachlan river system, Murrumbidgee river system, Edward/Kooley-Wakool river system, Goulburn River and Lower Murray River.</p> <p>This Flow-MER data set includes and extends the long-term data collected at the same sites during the Long Term Intervention Monitoring (LTIM) project (2014-2019).</p>		
Currency	Date from: 1/7/2014 Date to: 30/6/2023		
Spatial domain	Jurisdiction/Location: Murray-Darling Basin		
	Geographic extent: <div style="text-align: center;"> </div>		
	Coordinate system: GDA1994, EPSG 4283		
Dataset status	Progress: Ongoing		
	Maintenance and update frequency: Annually within the life of the Flow-MER project		
Attributes	Attribute Name	Description	Data Type
	Program	The name of the Flow-MER Selected Area in which the data were collected	text
	samplePoint	Name of the sampling site along a river within which the samples are located	text
	Description	Optional description of the SamplePoint	text
	Latitude	Decimal degrees	number
	Longitude	Decimal degrees	number
	sampleDate	Unique date-time stamp that is used to identify each data record.	dateTime
	sampleType	Sampling method	text
	densityIndividuals	End date (exclusive) that these measures were observed	number
	evaluationCode	E1 = data collection by category 1 or 2 standard method AND processed as required for Basin evaluation.	text

		E2 = data collection by category 1 or 2 standard method AND processed for using non-standard method for selected area evaluation E3 = data collection and processing using selected area specific methods (category 3)	
	higherTaxaName	Higher taxonomic level (optional)	text
	subClass	Taxonomic level Sub-Class – Latin name	text
	Order	Taxonomic Order – Latin name	text
	familyName	Taxonomic Family – Latin name	text
	genusName	Taxonomic Genus – Latin name	text
	speciesName	Latin name for species	text
	comments	Optional comment to aid interpretation of each data record for the sampleDate time stamp.	text
Data quality	<p>Lineage: Exported from the MDMS 24/08/2023</p> <p>Positional accuracy: Locations accurate to 4 decimals but actual monitoring data collected at these locations can be up to 1km from the nominated point</p> <p>Attribute accuracy: Direct export from the MDMS without further processing</p> <p>Logical consistency: Sample point names are unique within the program</p> <p>Completeness: Complete export from the MDMS</p>		
Access and License	<p>Published Data Landing Page: https://data.gov.au/data/dataset/80fbaec-1597-4ece-a2cd-8568a67420c2</p> <p>Distribution format: CSV tabular data</p> <p>Access constraints: Creative Commons license CC BY-SA 4.0 Attribution-ShareAlike 4.0 International). https://creativecommons.org/licenses/by-sa/4.0/ Attribution — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. redistribute the material in any medium or format must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.</p> <p>Copyright: ©2023 Commonwealth of Australia, Flow-MER program</p>		
Contributors	<p>Flow-MER project Selected Areas: Gwydir river system (University of New England), Junction of the Warrego and Darling rivers (University of New England), and Murrumbidgee river system (Charles Sturt University)</p> <p>Flow-MER acknowledge the First Nations peoples as the Traditional Owners and Custodians of the lands, waterways and skies of the Murray-Darling Basin. We thank them for their knowledge and science and respect their continuing connection to culture and Country and the values reflected in these data.</p>		
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Metadata information	Metadata date: 8/11/2023		