



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 Vegetation Community Structure

Dataset name	Flow-MER Vegetation Community Structure 2014-2023		
Dataset citation	CEWH (2024) Vegetation Community Structure. 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-vegetation-community-structure on [date-sourced].		
Description	<p>Plant community structure and observed inundation in vegetation plots collected as part of the Commonwealth Environmental Water Holder (CEWH) Flow-MER program in the Murray-Darling Basin.</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:		
	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
	samplePointName	A complex of wetlands or area along a stream, represented by either a name or a polygon, 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
	tripNumber	Identifier for a sampling trip to group samples across dates, within a flow delivery season, within a site, within a sampleType.	integer
	transectID	Unique identifier for each transect (enter zero if not applicable)	text
	samplingUnitID	Unique identifier for each sampling unit (may be within a transect)	text
	samplingUnitType	Description of sampling unit varies because of different methods being used.	category

	elevation	Elevation as height in metres above the Australian Height Datum (AHD) (Goulburn,EdwardWakool)	number
	evaluationCode	E1 = data collection by category 1 or 2 standard method AND processed as required for Basin evaluation. 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)	category
	vegCommunity	The vegetation community that has been sampled from one or more quadrats within the sample point. All quadrats of the same vegCommunity type are collated to provide the summary statistics of vegetation cover.	category
	canopyCover	Percent cover of living canopy species (i.e. trees > 3 m tall) within the sampling unit (<1% = 1%)	number
	litterCover	Percent cover of litter (i.e. bark, leaves and twigs on ground) within the sampling unit (<1% = 1%)	number
	lichenMossesCover	Percent cover of lichen and mosses within the sampling unit (<1% = 1%)	number
	bareGroundCover	Percent cover of bare ground within the sampling unit (<1% = 1%)	number
	deadTreeCover	Percent cover of standing dead trees within the sampling unit (<1% = 1%) (Lachlan)	number
	logCover	Percent cover of ground log within the sampling unit (<1% = 1%)	number
	plantBases	Percent cover of the base of live plants within the sampling unit (<1% = 1%) (Goulburn only)	number
	percentInundated	Percent cover of open water within the sampling unit (<1% = 1%)	number
	WaterDepth	Mean depth of open water if present in m	number
	qualityDepth	1: Best quality unedited data. Meets operational standards and is considered a good representation of the true value. 2: Good quality. Minimal editing. May include sensor drift correction this is considered a good representation of the true value. 3: Modified or transformed data that is considered a reasonable representation of the true value. 4: Unreliable data - considered a poor representation (e.g. debris effecting sensor, flat batteries) 5: Estimated or modelled data.	integer
	soilMoisture	Description of soil moisture within the sampling unit. For partially inundated (i.e. percentInundated >0 and <100, soilMoisture refers to non-inundated portion of plot	category
	durationDry	Number of days since the sampling unit was last inundated	number
	qualityDurationDry	1: Best quality unedited data. Meets operational standards and is considered a good representation of the true value. 2: Good quality. Minimal editing. May include sensor drift correction this is considered a good representation of the true value. 3: Modified or transformed data that is considered a reasonable representation of the true value.	integer

		4: Unreliable data - considered a poor representation (e.g. debris effecting sensor, flat batteries) 5: Estimated or modelled data.	
	maxDepthPrev	Maximum depth within the sampling unit during the previous inundation period (in m)	number
	qualityMaxDepthPrev	1: Best quality unedited data. Meets operational standards and is considered a good representation of the true value. 2: Good quality. Minimal editing. May include sensor drift correction this is considered a good representation of the true value. 3: Modified or transformed data that is considered a reasonable representation of the true value. 4: Unreliable data - considered a poor representation (e.g. debris effecting sensor, flat batteries) 5: Estimated or modelled data.	integer
	durationPrevInundation	Number of days that the sampling unit was inundated during the previous inundation	integer
	qualityPrevInundation	1: Best quality unedited data. Meets operational standards and is considered a good representation of the true value. 2: Good quality. Minimal editing. May include sensor drift correction this is considered a good representation of the true value. 3: Modified or transformed data that is considered a reasonable representation of the true value. 4: Unreliable data - considered a poor representation (e.g. debris effecting sensor, flat batteries) 5: Estimated or modelled data.	integer
	comment	Optional comment to aid interpretation of each data record for the sampleDate time stamp.	text

Data quality

Lineage:

Exported from the MDMS 19/12/2023

Positional accuracy:

Locations accurate to 4 decimals but actual monitoring data collected at these locations can be up to 1km from the nominated point

Attribute accuracy:

Direct export from the MDMS without further processing

Logical consistency:

Sample point names are unique within the program

Completeness:

Complete export from the MDMS

Access and License

Published Data Landing Page:

<https://data.gov.au/data/dataset/b2e8198d-9089-46e3-beb4-7fdc8c5f62ae>

Distribution format: CSV tabular data

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Contributors	<p>Data provided by Flow-MER program Selected Area teams: Junction of the Warrego and Darling Rivers and Gwydir river system (University of New England), Lachlan river system (University of Canberra), Murrumbidgee river system (Charles Sturt University), Edward/Kooley-Wakool river system (Charles Sturt University), Goulburn River (Arthur Rylah Institute).</p> <p>The Commonwealth Environmental Water Holder and Flow-MER program 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 thank them for their knowledge and science and the values reflected in these data.</p>
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Maintainer	Flow-MER Basin scale project Shane Brooks (Flow-MER data manager) https://brooks.eco/contact
Metadata information	Metadata date: 4/10/2024