



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 daily flows with CEW component

Dataset name	Flow-MER daily flows with CEW component		
Dataset citation	CEWH (2024) Flow-MER daily flows with CEW component. 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-daily-flows-with-cew-component on [date-sourced].		
Description	<p>Daily river flows (ML/day) for a subset of river gauges throughout the Murray-Darling Basin with a modelled estimate of the contribution of Commonwealth environmental water. The evaluation of flow regimes is based on comparison of streamflow recorded at these gauges for the water year with streamflow that would have occurred in the absence of the Commonwealth water program. The Commonwealth environmental water contribution is estimated using a baseline modelling approach based on either point derivation, water accounting, and water planning information provided by CEWH, WaterNSW, GMW, and MDBA.</p> <p>The data set includes a continuous sequence of data for 100 gauge stations, with 43 additional gauges added in 2024 (refer lineage change log).</p> <p>Data for 2014 – 2017 also includes an estimate of what flows would have been in the absence of river regulation (Flow Category = PRE). The modelling for these values by the LTIM project was discontinued in 2017.</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/Kolety-Wakool river system, Goulburn River and Lower Murray River</p> <p>Compiled by the Flow-MER Basin scale project.</p> <p>2014-2019 data based on information from the Long Term Intervention Monitoring (LTIM) project.</p>		
Currency	<p>Date from: 1/7/2014</p> <p>Date to: 30/6/2023</p>		
Spatial domain	<p>Jurisdiction/Location: Murray-Darling Basin</p> <p>Geographic extent:</p> <div style="text-align: center;"> <p>138.568 -24.586 152.489 -37.682</p> </div> <p>Coordinate system: GDA1994, Australia Albers, EPSG 3577</p>		
Dataset status	<p>Progress: complete for the period stated</p> <p>Maintenance and update frequency: Annual updates within the life of the Flow-MER project</p>		
Attributes	Attribute Name	Description	Data Type
	samplePoint	River gauge Station Number e.g. “409017”	text
	Description	Optional description of the SamplePoint in this case a river gauge text description in the form “waterway name at location” e.g. Murray River At Doctors Point	text

	Latitude	Decimal degrees	number
	Longitude	Decimal degrees	number
	sampleDate	Unique date-time stamp that is used to identify each data record.	dateTime
	flowCategory	Flow – Daily discharge at the samplePoint gauge CEW - modelled estimate of the contribution of Commonwealth environmental water PRE -modelled estimate of pre-regulation flows (2014-2017 data only)	Text
	Flow	Daily discharge in ML/day	number
	<p>Lineage: Observed streamflow records are downloaded from respective jurisdictional websites. It is assumed that these records follow the minimum requirement set by the International Organisation for Standardisation (ISO) standard (ICS:17.120.20) for flow measurement in open channels. Hence reliability and quality are marked high. The daily modelled flows with attribution to Commonwealth environmental water is derived using either point derivation, water accounting, and water planning information provided by CEWH, WaterNSW, GMW, and MDBA depending on the valley location. The data quality is marked medium. The data checks follow the data reliability scale as reported in the 2020 Basin Plan evaluation (MDBA 2020).</p> <p>Improved data availability in 2024 permitted an additional 43 gauge stations to be included in the data set.</p> <p>Change Log 2024 Station 41000281 <i>Murrumbidgee River @ Carrathool Bridge</i> replaces 410078 <i>Murrumbidgee River @ Carrathool</i> StationID's for 6 stations in QLD corrected to include the suffix e.g. 423202 to 423202C 43 additional stations added where counterfactual data was available</p> <p>2017 – LTIM discontinue modelling of pre-river regulation flows (Flow category = PRE)</p>		
	<p>Positional accuracy: Gauge location prided to 2 decimal places gives positional accuracy of approximately 1km</p>		
	<p>Attribute accuracy:</p>		
	<p>Logical consistency:</p>		
	<p>Completeness: Compiled annually to represent the maximum extent of all actions that incorporate Commonwealth environmental water indicated in CEWH acquittal reporting however is not guaranteed to be complete.</p>		
Access and License	<p>Distribution Landing Page: https://data.gov.au/data/dataset/6a64f124-035b-4f71-9bc5-4bbb322b0267</p>		
	<p>Distribution format: GeoTIFF</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>		
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Contributors	<p>LTIM and Flow-MER Basin-scale project Hydrology team use data supplied by CEWH, WaterNSW, GMW, and MDBA.</p>		

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Custodian	Commonwealth Environmental Water Holder (CEWH), Department of Climate Change, Energy, the Environment and Water
Contact	Commonwealth Environmental Water Holder (CEWH) cewomonitoring@dcceew.gov.au
Maintainer	Flow-MER Basin scale project Shane Brooks (Flow-MER data manager) https://brooks.eco/contact
Metadata information	Metadata date: 6/10/2024