

Metadata

MD005619: Low resolution mapping of irrigated areas in 2021

ANZMet Lite Category	Metadata element	
	ANZLIC Identifier:	<i>To be assigned</i>
General Information		
Title:		MD005619_LowResolutionMapping_IrrigatedAreas2021
Key Dates and Language	Resource creation	2021-07-01
	Last updated	2022-08-31
Abstract and Purpose	Abstract	The dataset is low resolution mapping of irrigated land use in 2021 across the Lower Murray-Darling, including the Edward/Kolety and Wakool river system. It is derived from high resolution mapping, owned and maintained by SunRISE Mapping & Research, that was used to prepare mapping and report outputs for MDBA contract MD005619. This low resolution version of the mapping was derived by aggregating adjacent areas of the same crop type. The aggregated mapping includes adjacent, non-irrigated areas, hence area figures in this low resolution mapping DO NOT represent accurate irrigated areas and DO NOT compare with those of the accurate, high resolution, source mapping.
	Purpose	The purpose of the dataset is to provide a low resolution version of the mapping for public access, as per project requirements of MD005619. No estimate or claim is made regarding the dataset's fitness for purpose.
Metadata author	Metadata Author	Sue Argus, Program Manager
	Author's details	SunRISE Mapping & Research, 139 Lime Ave, Mildura VIC 3500
Contacts and Recognition	Organisation	Murray-Darling Basin Authority (MDBA)
	Contact role	Director, Information and Data
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History and Quality		
History	Lineage (Source and processing steps)	<p>The dataset is a low resolution version of high resolution mapping owned and maintained by SunRISE Mapping & Research. This low resolution version was derived by aggregating adjacent areas of the same crop type. Large areas such as almond plantings, were aggregated across divides of up to 200 metres, smaller areas were aggregated across divides up to 50 metres. The aggregated mapping includes adjacent, non-irrigated areas; hence area figures do not accurately represent irrigated areas.</p> <p>After aggregation, intersects, permanent plantings of less than 0.5 hectares and seasonal crops of less than 1 hectare were removed from the mapping.</p> <p>Further information on the source dataset is outlined in the report: SunRISE Mapping & Research, August 2022, <i>Irrigated crop area data for the Lower Murray-Darling 2003 to 2021, including analysis of the Edward/Kolety and Wakool river system</i>. Irrigation area mapping of the Murray and Lower Darling Rivers Murray-Darling Basin Authority (mdba.gov.au)</p>

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Data quality test and result	Attribute accuracy	<ul style="list-style-type: none"> CROP type for permanent plantings has high reliability (~95%) CROP type for seasonal crops (vegetables and field crops) has low reliability (~65%), as it can be difficult to assess irrigation activity in one season Area figures include aggregated, non-irrigated, areas. Do not use these area figures for analysis of irrigated areas.
	Spatial Completeness	The dataset is spatially complete, intended to include all irrigated areas in the study region. The study region is described in the report; <i>Irrigated crop area data for the Lower Murray-Darling 2003 to 2021, including analysis of the Edward/Kolety and Wakool river system.</i>
	Attribute Completeness	All fields are attributed. Refer to the Data Dictionary below and Table 1 for a description of attributes.
	Positional Accuracy	No assessment of positional accuracy is made as the mapping contains aggregated areas i.e. multiple patches of irrigated areas within the one polygon.
Identification		
Jurisdictions/ Search words	Jurisdiction:	Victoria, New South Wales and South Australia
	Search words:	AGRICULTURE Irrigation, AGRICULTURE Horticulture, LAND Use
Status and maintenance	Resource status	Complete
	Maintenance	Not applicable
Reference system	Reference system	Datum GDA2020, projection MGA zone 54
	Scale	1:250,000
Spatial type		DIGITAL ArcGIS, vector (polygon) coverage
Legal restrictions	Access constraint	<i>Assigned by MDBA</i>
	Disclaimer	Although every effort has been made to ensure the accuracy of the data, SunRISE Mapping & Research, its agents, officers and employees make no representations, either express or implied, that the data is accurate or fit for any purpose and expressly disclaims all liability for loss or damage arising from reliance upon the data.
Extent		
Geographic Bounding Box (decimal degrees)	North Bounding Latitude:	-32.32
	South Bounding Latitude:	-36.14
	East Bounding Longitude:	145.05
	West Bounding Longitude:	138.70
Geographic description	Geographic Extent Name (GEN):	<i>GEN Category:</i> Drainage Divisions and Major River Basins <i>GEN Name:</i> LOWER MURRAY-DARLING
Temporal information	Date:	The mapping represents irrigation status from mid-2020 to mid-2021
Distribution		
Distributor		Murray Darling Basin Authority
Distribution		<i>Assigned by MDBA</i>
Associated report	<i>SunRISE Mapping & Research, August 2022, Irrigated crop area data for the Lower Murray-Darling 2003 to 2021, including analysis of the Edward/Kolety and Wakool river system. Irrigation area mapping of the Murray and Lower Darling Rivers Murray-Darling Basin Authority (mdba.gov.au)</i>	

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Additional metadata		
Data Dictionary	Field name	Definition and allowable values
	CROP	Crop types (described in Table 1 below): <ul style="list-style-type: none"> • Citrus • Field Crop Summer • Field Crop Winter • Fruit Tree Olive • Fruit Tree Other • Fruit Tree Stonefruit • Fruit Tree Unknown • Grape Dried • Grape Table • Grape Wine • Miscellaneous • Nut Tree Almond • Nut Tree Other • Nut Tree Unknown • Vacant P • Vacant S • Vegetable
	AREA_HA	Area of the polygon in hectares. Each polygon represents a 'CROP' listed above as well as adjacent areas
	STATE	VIC, NSW or SA
	SOURCE	SunRISE Mapping

Table 1: Data Dictionary: description of CROP types

	CROP type	Description
Permanent plantings	Grape Dried	
	Grape Table	
	Grape Wine	Grapes crushed for wine or juice
	Citrus	Mainly navel, mandarin and Valencia. Also: blood orange, common orange, grapefruit, lemon, lime, pummelo, tangelo
	Fruit Tree Olive	
	Fruit Tree Stone fruit	Apricot, cherry, nectarine, peach and plum
	Fruit tree Other	Mainly avocado and pome fruit. Also: date palm, fig, jujube, mango, mulberry, persimmon, pomegranate
	Fruit Tree Unknown	Unknown fruit tree category - could be Olive, Stone fruit or Other fruit tree
	Nut Tree Almond	
	Nut Tree Other	Mainly pistachio. Also: hazelnut, macadamia, pecan, walnut
	Nut Tree Unknown	Unknown nut tree category - could be Almond or Other nut tree
	Miscellaneous	Mainly tree plantation & nursery. Also, aquaculture, berry, fresh flowers, native plants
Seasonal crops	Field Crop Summer	Field crops irrigated Nov.-March e.g. cotton, lucerne, maize, pasture, rice, soybean, turf
	Field Crop Winter	Usually sown in Autumn, harvested Spring/Summer e.g. cereals, oilseeds, pulses
	Vegetable	Mainly potato, cucurbit (melon, pumpkin, zucchini etc.), carrot, salad green, asparagus, tomato and onion. Also: bean, beetroot, broccoli, cabbage, capsicum, cauliflower, chilli, eggplant, garlic, pea, sweet corn
	Vacant P	Vacant (not irrigated), previously an irrigated permanent planting
	Vacant S	Vacant (not irrigated), previously an irrigated seasonal crop