Title	NSW Aridity Index - High resolution (30 meter)

Abstract	
	The aridity index, also known as the Budyko radiative index of dryness, is a dimensionless parameter that represents the long-term balance between net radiation and precipitation. The method used to generate the high-resolution aridity index layer across New South Wales was developed by Nyman et al., 2014. To create the high-resolution (30 m) aridity index layer for New South Wales, the following parameters were used: 1 arc second monthly net radiation and shortwave radiation ratio, 30 years of historical data encompassing precipitation and surface temperature from the period 1992 to 2021, 30-meter Shuttle Radar Topography Mission digital elevation model, and 30-meter Leaf Area Index layer which provides insights into the density and distribution of vegetation across the region. The aridity index layer is a high-resolution dataset that allows identification of finer-scale variations in local moisture balance related to aspect unlike existing aridity index layers. This dataset serves as a valuable tool for understanding and managing water resources, assessing environmental conditions, and informing decision-making in a wide range of applications related to water management, land use, and climate change adaptation.
	The Aridity Index factsheet provides more information about the method and some potential application of the layer.

Resource locator

[Show on SEED Web Map](#)	Name: Show on SEED Web Map
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Display dataset on SEED map viewer
	Function: download
[Data Quality Statement](#)	Name: Data Quality Statement
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Data quality statement for NSW Aridity Index - High resolution (30 meter)
	Function: download
[Download Package](#)	Name: Download Package
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	Data (GeoTIFF)
	Function: download
[ArcGIS REST Services Directory - NSW Aridity Index - High resolution (30 meter)](#)	Name: ArcGIS REST Services Directory - NSW Aridity Index - High resolution (30 meter)
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	An ArcGIS Server web service represents a GIS resource such as a map, locator, or image that is located on an ArcGIS Server site and is made available to client applications. Depending on the layers enabled, this web service allows a user to query its features and/or visualise the dataset. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as ArcGIS/ArcMap.
	Function: download
[NSW Aridity Index factsheet](#)	Name: NSW Aridity Index factsheet
	Protocol: WWW:DOWNLOAD-1.0-http--download
	Description:
	The high-resolution aridity index dataset has a range of potential applications due to

its high spatial resolution, including in environmental management decision-making.

Function: download

Unique resource identifier	
Code	1ee4c0a1-d576-44ae-8b6f-b5215e6325ba

Presentation form	Map digital

Edition	1

Dataset language	English

Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://www.planningportal.nsw.gov.au/opendata/dataset/1ee4c0a1-d576-44ae-8b6f-b5215e6325ba

Purpose	Fire management planning

Status	Completed

Spatial representation type	grid

Spatial reference system	
Code identifying the spatial reference system	4283

Spatial resolution	30 m

Topic category	climatologyMeteorologyAtmosphere
	environment

Keyword set

keyword value	HAZARDS-Fire

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

Vertical extent information

Minimum value	-100
Maximum value	2228

Coordinate reference system

Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711

Temporal extent

Begin position	1992-01-01
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	Unknown

Contact info

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Responsible party role	pointOfContact

Lineage

The Aridity Index factsheet provides more information about the method and some potential application of the layer.

Constraint set

Use constraints	This data is provided under a Creative Commons Attribution 4.0 licence http://creativecommons.org/licenses/by/4.0. Attribute 'NSW Department of Climate Change, Energy, the Environment and Water' in publications using this data.
Limitations on public access	

Responsible party

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Responsible party role	pointOfContact

Metadata date
2024-06-18T23:27:22.404661

Metadata language