Title

Soil and Land Resources of the Merriwa Plateau

Abstract

This digital soil landscape product contains natural resource mapping for the Merriwa. The Merriwa Plateau is located in the upper Hunter catchment including hills of the Southern Liverpool Ranges; grading to gently sloped plateau around Merriwa. The project was funded by the National Partnership Agreement to provide improved soil and landscape information for this highly productive agricultural area. It has enabled more accurate and better quality Land and Soil Capability and Soil Fertility information to be available for future updates of Biophysical Strategic Agricultural Land (BSAL) mapping under the NSW Strategic Regional Land Use Policy (SRLUP). This resource information will also assist other decision making, planning and environmental modelling throughout the catchment.

Forty soil landscape map units have been described for the Merriwa Plateau. Each unit is an inventory of soil and landscape information with relatively uniform land management requirements, allowing major soil and landscape qualities and constraints to be identified. Soils are described using the Australian Soil Classification and the Great Soil Groups systems.

Related Datasets: The dataset area is also covered by the mapping of the Soil landscape 1:100 000 and 1:250 000 mapping series for the mapsheets of Dubbo, Singleton, Murrurundi and Blackville. Part of this area is also covered by the mapping of Hydrogeological landscapes of NSW.

Online Maps: This and related datasets can be viewed using eSPADE (NSW's soil spatial viewer), which contains a suite of soil and landscape information including soil profile data. Many of these datasets have hot-linked soil reports. An alternative viewer is the SEED Map; an ideal way to see what other natural resources datasets (e.g. vegetation) are available for this map area.

Reference: Office of Environment and Heritage, 2014, *Soil and Land Resources of the Merriwa Plateau*, NSW Office of Environment and Heritage, Sydney.

Resource locator

Data quality statement	Name: Data quality statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: DQS - Soil and Land Resources of the Merriwa Plateau Function: download
Show on eSPADE Web Map	Name: Show on eSPADE Web Map Protocol: WWW:DOWNLOAD-1.0-http--download Description: View dataset on eSPADE spatial viewer. Function: download
Soil and land resource data package	Name: Soil and land resource data package Protocol: WWW:DOWNLOAD-1.0-http--download Description: Download data package: shapefile and PDF reports Function: download
Soil map information	Name: Soil map information Protocol: WWW:DOWNLOAD-1.0-http--download Description: Web page about soil maps in NSW. Function: download
Land and soil	Name: Land and soil information

information	Protocol: WWW:DOWNLOAD-1.0-http--download Description: Web page about land and soil information in NSW. Function: download

Unique resource identifier

Code	1575c709-f05d-4039-bc86-87db14708af6

Presentation form	Map digital
Edition	1.0 (v160929)
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/1575c709-f05d-4039-bc86-87db14708af6
Purpose	This dataset was funded by National Partnership Agreement to collect improved soil and land information to upgrade Land and Soil Capability and Soil Fertility mapping for use in the SRLUP. It was then published in April 2015.
Status	Completed

Spatial representation

Type	vector
Geometric Object Type	surface

Spatial reference system

Code identifying the spatial reference system	4283
Equivalent scale	1:None

Topic category

Keyword set

keyword value	SOIL SOIL-Erosion LAND-Topography LAND-Cover HAZARDS-Flood HAZARDS-Landslip

	LAND-Use
	VEGETATION
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	149.584351
East bounding longitude	150.899963
North bounding latitude	-32.178449
South bounding latitude	-31.665585
NSW Place Name	Merriwa Plateau

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	2013-01-06
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	As needed
Contact info	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Lineage

The mapping was upgraded to Soil and Land Resource 1:100,000 scale standard by the NSW Government using:

- existing published 1:100,000 soil landscape mapping (Blackville and Murrurundi 1:100,000 map sheets). Some minor linework changes were made to the mapping
- new mapping for parts of Merriwa, Muswellbrook, Gulgong and Coolah, 1:100,000 map sheets

Traditional soil survey methods and standards were used to produce this soil map product. Information from previous soil and geology surveys were used. Linework was captured by digitizing on screen at approximately 1:10,000 using ArcGIS.

Provisional soil landscapes were established on the dominant geomorphic processes responsible for the formation of the landscape and on the geological parent material. The boundaries of these soil landscapes were mapped using the interpretation of ADS40 photographs, SPOT satellite imagery, DEM and radiometric imagery.

Fieldwork was conducted assessing a suite of soil and landscape properties. Dominant sub landscapes classes, their soil types were identified and soil landscape hazards assessed. Over 150 additional detailed soil profiles and observations were collected across the project area to fill knowledge and data gaps. A small subset of samples were also collected for laboratory analysis to support the survey.

Limitations on public access

Scope	dataset

DQ Completeness Commission

Effective date	2018-03-14
Explanation	All polygons in the GIS layer are labeled with a unique soil landscape MasterCode (Code) and MasterName (Name), Dominant Geomorphic process group (Process_D) and subdominant geomorphic process group (Process_SD). Pdf report are available for each map unit.

DQ Completeness Omission

Effective date	2018-03-14
Explanation	Water polygons have been removed from the GIS layer.

DQ Conceptual Consistency

Effective date	2014-09-05
Explanation	Map unit concepts and polygons, major soil types and soil landscape descriptions have been field verified by a peer soil scientist for all map units.

DQ Topological Consistency

Effective date	2014-09-05
Explanation	ArcGIS was used to ensure all polygons in the shape file are topologically correct. All polygons have a unique identifier.

DQ Absolute External Positional Accuracy

Effective date	2014-09-05
Explanation	Observations and soil profiles were located using a handheld GPS. Soil boundaries of this 1:100,000 scale map product are generally accurate to within 100 m on the ground but variations will occur especially where soil boundaries are gradual.

DQ Non Quantitative Attribute Correctness

Effective date	2014-09-05
Explanation	Soil landscape map units are individualised by unique combinations of soil type, topography, geology, geomorphic process containing variations in vegetation, land use, existing erosion/land degradation and constraints to development. The land and soil attributes in this product were predominately assessed using field observations, remote sensing interpretation (satellite, radiometric and ADS40) and limited laboratory analysis where available.

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

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Metadata date

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Metadata language