Title

Soil and Land Resources of the Moree Plains

Abstract

This digital soil landscape product contains natural resource mapping for the Moree Plains. The Moree Plains cover the alluvial plains and fans of the Namoi, Gwydir, Barwon and Macintyre Rivers in the north and Pilliga Outwash fans in the South. The project was funded by the 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-four soil landscape map units have been described for the Moree Plains. 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.

Online Maps: This dataset 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, 2015, *Soil and Land Resources of the Moree Plains*, 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 Moree Plains.

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 information

Name: Land and soil information

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Web page about land and soil information in NSW.

	Function: download

Unique resource identifier

Code	212b7b21-efab-4e91-8bb0-7349a52f116e

Presentation form	Map digital
Edition	1.0 (v160926)
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/212b7b21-efab-4e91-8bb0-7349a52f116e
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 October 2016.
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-Use
	LAND
	HAZARDS-Flood
	HAZARDS-Landslip
	VEGETATION

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	148.603821
East bounding longitude	150.584106
North bounding latitude	-30.692108
South bounding latitude	-28.555286
NSW Place Name	Moree Plains
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	2013-06-01
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

Traditional soil survey methods and standards were used to produce this soil map product. Information from previous soil and geology surveys were used. Linework for the entire area 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 of various years (2005, 2008 and 2011), secondary clay minerals, weathering index, DEM, Landsat TM and radiometric imagery. Radiometrics correlated very well to different aged and type of alluvial/colluvial material. Flooding information data was used where available.

Fieldwork was conducted assessing a suite of soil and landscape properties. At each site, soil morphological data and site information were recorded on Soil and Land Information System (SALIS) cards. Dominant sub landscapes classes, their soil types were identified and soil landscape hazards assessed. Over 250 details soil profiles were collected across the project area. A subset of 220 samples were also collected for laboratory analysis to support the survey.

Limitations on public access

Scope: dataset

DQ Completeness Commission

Effective date: 2015-04-30

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. Water polygons have been removed from the GIS layer.

DQ Conceptual Consistency

Effective date: 2015-04-30

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: 2015-04-30

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: 2015-04-30

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: 2015-04-30

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

Metadata point of contact

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Metadata date

2024-02-26T13:36:50.095110

Metadata language