

## Title

Soil Landscapes of the Bathurst 1:250,000 Sheet

## Abstract

This map is one of a series of soil landscape maps that are intended for all of central and eastern NSW, based on standard 1:100,000 and 1:250,000 topographic sheets. The map provides an inventory of soil and landscape properties of the area and identifies major soil and landscape qualities and constraints. It integrates soil and topographic features into single units with relatively uniform land management requirements. Soils are described in terms of the Great Soil Group and the Northcote classification systems.

**Related Datasets:** The dataset area is also covered by the mapping of the [Soil and Land Resources of the Hawkesbury-Nepean Catchment](#) and [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.

**References:** Kovac M., Murphy B.W. and Lawrie J.A., 2010, *Soil Landscapes of the Bathurst 1:250,000 Sheet* map, edition 2, Department of Environment, Climate Change and Water NSW, Sydney.

Kovac M., Murphy B.W. and Lawrie J.A., 1989, *Soil Landscapes of the Bathurst 1:250,000 Sheet* report, edition 1 hard-copy, Soil Conservation Service of NSW, Sydney.

Kovac M., Murphy B.W. and Lawrie J.A., 2010, *Soil Landscapes of the Bathurst 1:250,000 Sheet* report, digital re-print, Department of Environment, Climate Change and Water NSW, Sydney.

## Resource locator

### [Data quality statement](#)

Name: Data quality statement

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

Description:

DQS - Soil Landscapes of the Bathurst 1:250,000 Sheet

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

### [NSW Government Online Shop](#)

Name: NSW Government Online Shop

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

Description:

Purchase hardcopy map and report from Shop.DPIE website

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

#### GIS data

Name: GIS data

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

Description:

Download shapefile and ESRI layer file

Function: download

#### Soil landscape map

Name: Soil landscape map

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

Description:

Download high quality JPG map

Function: download

#### Soil landscape data package

Name: Soil landscape data package

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

Description:

Download complete package: GIS data, soil landscape reports and JPG map.

Function: download

#### Soil landscape reports

Name: Soil landscape reports

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

Description:

Download complete soil landscape report & individual landscape descriptions.

Function: download

### Unique resource identifier

Code 6fa8a8df-8e60-4919-9920-df9804273108

Presentation form Map digital

Edition 2.0

Dataset language English

### Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/6fa8a8df-8e60-4919-9920-df9804273108>

Purpose Support natural resource management and decision making.

Status Completed

### Spatial representation

Type vector

Geometric surface  
Object Type

## Spatial reference system

Code identifying the spatial reference system 4283

Equivalent scale 1:None

## Additional information source

### GIS Field name descriptions

CODE - Soil landscape code  
NAME - Soil landscape name  
SOIL\_GROUP - A broad classification based on the Great Soil Group system. It describes the major soil group for each soil landscape and is used to group landscapes for display purposes on the hard copy maps. SOIL\_CODE - A string combining the soil group and the soil landscape code. The first two or three capitals letters are the soil group abbreviation and the remaining letters are the soil landscape code. VERSION - Version number

### Available Formats

- View online using [eSPADE](#) Spatial viewer
- Download JPG map, report or GIS ESRI shapefiles(.shp) & layer files (.lyr) from [SEED](#) data portal.
- Purchase a hard-copy map and report from [Shop.DPIE](#)
- Soil profile points data is also available in MS spreadsheet format by contacting the data custodians at [soils@environment.nsw.gov.au](mailto:soils@environment.nsw.gov.au)

## Topic category

## Keyword set

keyword value HAZARDS-Flood  
HAZARDS-Landslip  
LAND-Topography  
SOIL  
SOIL-Chemistry  
SOIL-Erosion  
SOIL-Physics

## Originating controlled vocabulary

Title ANZLIC Search Words  
Reference date 2008-05-16

## Geographic location

West bounding longitude 148

East bounding longitude 150

North bounding latitude -34

South bounding latitude -33

NSW Place Name Bathurst 1:250,000 map sheet

## 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 1985-01-01

End position N/A

## Dataset reference date

## Resource maintenance

Maintenance and update frequency Unknown

## 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](mailto:data.broker@environment.nsw.gov.au)

Web address <https://www.nsw.gov.au/departments-and-agencies/dcceew>

Responsible party role pointOfContact

## Lineage

Provisional soil landscapes were established firstly on the geological parent material and on topography. The boundaries of these provisional soil landscapes were mapped using stereoscopic interpretation of 1:40,000 scale black and white aerial photographs. LANDSAT thematic mapper imagery was used to assist with perception and charting of provisional soil landscapes. These boundaries were transferred onto 1:100,000 topographic base maps. After field checking boundaries and detailed investigations of the soil, the provisional landscapes were confirmed, amalgamated or sub-divided. The resulting soil landscapes are presented on the map at 1:250,000 scale in groups based on their dominant soil type in edition one and as geomorphic process groups in the second edition and digital reprints of the product. A symbology has been allocated to each group.

Soils were examined and described in detail at over 400 sites. At each site, soil morphological data and site information were recorded on Soil Data System cards. Sufficient field work was undertaken within each soil landscape to identify the range of soil types present and to enable their distribution within the landscape to be described. The soil material concept, used widely in other 1:100,000 soil landscape products was not used in this 1:250,000 scale mapping product.

The GIS shapefile linework has been updated to reflect latest hydrology data. Therefore small differences will occur between the shapefile and hard copy map.

## Limitations on public access

Scope	dataset
<b>DQ Completeness Commission</b>	
Effective date	2010-01-01
Explanation	Each soil landscape generally has at least six soil profile descriptions. Each soil landscape with difficult access has at least two soil profile descriptions. The number of soil profile descriptions and observations are within the recommended range specified in the Australian Soil and Land Survey Handbook (Reid 1988).
<b>DQ Completeness Omission</b>	
Effective date	2001-01-01
<b>DQ Conceptual Consistency</b>	
Effective date	2010-01-01
Explanation	The map and report have been checked for technical consistency and compliance with soil landscape map series standards. Map unit concepts and polygons, major soil types and soil landscape descriptions have been field verified (field edited) by a soil surveyor. Soil landscape polygons less than 40 hectares, and elongated polygons less than 300m wide are generally not shown if they are not significant or if the map will appear cluttered by their inclusion. In other instances, polygons as small as 20 hectares are shown.
<b>DQ Topological Consistency</b>	
Effective date	2010-01-01
Explanation	ArcGIS was used to ensure all polygons in the shapefile are topologically correct.
<b>DQ Absolute External Positional Accuracy</b>	
Effective date	2010-01-01
Explanation	Soil landscape boundaries have been checked and refined using iterative field and aerial photo checks. Solid line boundaries are generally accurate within 100m. Dashed line boundaries are generally accurate within 100 to 250m. Dotted line boundaries are generally accurate within 250 to 400m.  Observations and soil profile numbers are located onto the field sheets in the field. Location is determined by map reading (with accuracy to 25m) and where this is not possible using Global Positioning Systems (with accuracy within 100m). Field sheets are digitised to 13m accuracy.
<b>DQ Non Quantitative Attribute Correctness</b>	
Effective date	2010-01-01
Explanation	Soil landscape map units are individualised by unique combinations of soil type, topography, geology, vegetation, land use existing erosion/land degradation and constraints to development. The land and soil attributes in this product were predominately assessed from field observations and aerial photo interpretation.  Soil laboratory tests are undertaken for at least one representative sample for each soil material. Where possible, the chemical test methods adopted are the same as those in Rayment and Higginson (1992). Single test results provided for each soil material are intended as a guide only and variation in physical and chemical properties within each soil material should be anticipated.  Soils were examined and described in in the field. At each site, soil morphological data and site information were recorded on datacards and checked before being entered in the Soil Data System database.

## Responsible party

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

## Metadata point of contact

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Responsible party role	pointOfContact

**Metadata date** 2024-02-26T15:41:17.618891

**Metadata language**