## Title

Soil Landscapes of Central and Eastern NSW

## Abstract

This map is a compilation of all 41 published soil landscape maps that cover central and eastern NSW, based on standard 1:100,000 and 1:250,000 topographic sheets. The mapping 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. In the associated reports, soils are described in terms of soil materials in addition to the Australian Soil Classification, the Great Soil Groups, and the Northcote systems.

**Online Maps:** Part of this area is also covered by other soil mapping products, see the soil map index in eSPADE. eSPADE 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:** Department of Climate Change, Energy, the Environment and Water, 2024, Soil Landscapes of Central and Eastern NSW - v3.0.1, Department of Climate Change, Energy, the Environment and Water, Sydney.

## Resource locator

| | |
|---|---|
| Show on SEED Web Map | Name: Show on SEED Web Map<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Display dataset on SEED's map<br>Function: download |
| Data quality statement | Name: Data quality statement<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>DQS - Soil Landscapes of Central and Eastern NSW<br>Function: download |
| Show on eSPADE Web Map | Name: Show on eSPADE Web Map<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>View dataset on eSPADE soil spatial viewer.<br>Function: download |
| Soil landscape data package - [3.31 GB] | Name: Soil landscape data package - [3.31 GB]<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Download complete package: GIS data, PDF reports and JPG maps.<br>Function: download |
| Soil Landscape GIS data [176 MB] | Name: Soil Landscape GIS data [176 MB]<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Download soil landscape shapefile.<br>Function: download |
| Soil landscape reports (part 1 of 3) - [891MB] | Name: Soil landscape reports (part 1 of 3) - [891MB]<br>Protocol: WWW:DOWNLOAD-1.0-http--download |

| | |
|---|---|
| | Description:<br><br>Download soil landscape map unit reports - 1:100,000 scale: A to F (Armidale, Baan Baa, Bega-Goalen Point, Blackville, Braidwood, Canberra, Cobargo, Coffs Harbour, Cooma, Curlewis, Dorrigo, Dungog and Eden-Green Cape)<br><br>Function: download |
| Soil landscape reports (part 2 of 3) - [935MB] | Name: Soil landscape reports (part 2 of 3) - [935MB]<br><br>Protocol: WWW:DOWNLOAD-1.0-http--download<br><br>Description:<br><br>Download soil landscape map unit reports - 1:100,000 scale: G to N (Gosford-Lake Macquarie, Holbrook-Tallangatta, Katoomba, Kempsey-Korogoro Point, Kiama, Lismore-Ballina, Macksville-Nambucca, Michelago, Murrurundi, Murwillumbah-Tweed Heads, Narooma and Newcastle)<br><br>Function: download |
| Soil landscape reports (part 3 of 3) - [890MB] | Name: Soil landscape reports (part 3 of 3) - [890MB]<br><br>Protocol: WWW:DOWNLOAD-1.0-http--download<br><br>Description:<br><br>Download soil landscape map unit reports - 1:100,000 scale: P to Z & 1:250,000 scale: all (100K: Penrith, PortStephens, StAlbans, Sydney, Tamworth, WaggaWagga, Wallerawang, Wollongong-Port Hacking and Woodburn; 250K: Bathurst, Cootamundra, Dubbo, Forbes, Goulburn and Singleton)<br><br>Function: download |
| Soil landscape maps - [405 MB] | Name: Soil landscape maps - [405 MB]<br><br>Protocol: WWW:DOWNLOAD-1.0-http--download<br><br>Description:<br><br>Download high quality JPG maps for all mapping areas.<br><br>Function: download |
| ArcGIS REST Map Services | Name: ArcGIS REST Map Services<br><br>Protocol: WWW:DOWNLOAD-1.0-http--download<br><br>Description:<br><br>Connect to REST map services using ArcGIS or ArcGIS online map viewer.<br><br>Function: download |
| Land and soil information web page | Name: Land and soil information web page<br><br>Protocol: WWW:DOWNLOAD-1.0-http--download<br><br>Description:<br><br>About land and soil information in NSW - DPIE's data systems and map products.<br><br>Function: download |
| DPIE's Land and soil website | Name: DPIE's Land and soil website<br><br>Protocol: WWW:DOWNLOAD-1.0-http--download<br><br>Description:<br><br>Soil information, mapping & management; land degradation & geodiversity.<br><br>Function: download |
| Web Map Service (WMS) | Name: Web Map Service (WMS)<br><br>Protocol: WWW:DOWNLOAD-1.0-http--download<br><br>Description:<br><br>Connect to WMS using your GIS. |

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|---|---|
| | Function: download |
| KML Service | Name: KML Service<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Download KML for use in Google Earth.<br>Function: download |
| Web Map Tile Service (WMTS) | Name: Web Map Tile Service (WMTS)<br>Protocol: WWW:DOWNLOAD-1.0-http--download<br>Description:<br>Connect to WMTS service using your GIS.<br>Function: download |

## Unique resource identifier

| | |
|---|---|
| Code | 8a20716a-0b73-4394-8223-313717373df2 |

| | |
|---|---|
| Presentation form | Map digital |
| Edition | 3.0.1 |
| Dataset language | English |

## Metadata standard

| | |
|---|---|
| Name | ISO 19115 |
| Edition | 2016 |

| | |
|---|---|
| Dataset URI | https://datasets.seed.nsw.gov.au/dataset/8a20716a-0b73-4394-8223-313717373df2 |
| Purpose | This map collates the published Soil Landscape Series mapping in NSW. |
| Status | Completed |

## Spatial representation

| | |
|---|---|
| Type | vector |
| Geometric Object Type | surface |

## Spatial reference system

| | |
|---|---|
| Code identifying the spatial reference system | 4283 |

| | |
|---|---|
| Spatial resolution | 10 m |
| Additional information source | **Version details** The major update made in version 2.1 includes new soil landscape mapping (linework and reports) for the Cobargo 1:100,000 sheet. Other minor errors or improvements to some attributes were also revised.<br>**GIS Field name descriptions** |

SALIS_CODE - Map sheet code and soil landscape code
NAME - Soil landscape name REPORT - Indicates presence of mapunit report
VERSION - Version number

**Available Formats**

- View online using eSPADE Spatial viewer
- Download JPG maps, reports or the GIS ESRI shapefile (.shp) from SEED data portal.
- Purchase individual hard-copy maps and reports 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

## Topic category

## Keyword set

| | |
|---|---|
| keyword value | HAZARDS-Flood |
| | HAZARDS-Landslip |
| | HUMAN-ENVIRONMENT-Planning |
| | LAND-Cover |
| | LAND-Topography |
| | LAND-Use |
| | SOIL |
| | SOIL-Chemistry |
| | SOIL-Erosion |
| | VEGETATION |
| Originating controlled vocabulary | |
| Title | ANZLIC Search Words |
| Reference date | 2008-05-16 |

## Geographic location

| | |
|---|---|
| West bounding longitude | 147.001 |
| East bounding longitude | 153.639 |
| North bounding latitude | -37.505 |
| South bounding latitude | -28.1573 |
| NSW Place Name | Central and Eastern NSW |

## 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 | 1984-01-01 |

| | |
|---|---|
| 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

Provisional soil landscapes were established firstly on the dominant geomorphic processes responsible for the formation of the landscape and secondly on the geological parent material. The boundaries of these provisional soil landscapes were mapped using stereoscopic interpretation of aerial photographs. These boundaries were delineated on 1:25,000 topographic map sheets for 1:100,000 scaled mapping and 1:100,000 topographic map sheets for 1:250,000 scaled mapping for field observation and editing. Airborne radiometrics imagery was used to assist with the refining of soil landscape boundaries. After field-checking boundaries and detailed investigation of the soils, the provisional landscapes were confirmed, amalgamated or sub-divided. The resulting soil landscapes are presented on the map at 1:100,000 or 1:250,000 scale depending on their published scale. Datasets included in this map include:

Published at 1:100,000 scale:

- Soil landscapes of the Sydney 1:100,000 map sheet
- Soil landscapes of the Armidale 1:100,000 map sheet
- Soil landscapes of the Baan Baa 1:100,000 map sheet (Liverpool Plains portion)
- Soil landscapes of the Bega-Goalen Point 1:100,000 map sheets
- Soil landscapes of the Blackville 1:100,000 map sheet
- Soil landscapes of the Braidwood 1:100,000 map sheet
- Soil landscapes of the Canberra 1:100,000 map sheet
- Soil landscapes of the Cobargo 1:100,000 map sheet
- Soil landscapes of the Coffs Harbour 1:100,000 map sheet
- Soil landscapes of the Cooma 1:100,000 map sheet
- Soil landscapes of the Curlewis 1:100,000 map sheet
- Soil landscapes of the Dorrigo 1:100,000 map sheet
- Soil landscapes of the Dungog 1:100,000 map sheet
- Soil landscapes of the Eden 1:100,000 map sheet
- Soil landscapes of the Gosford-Lake Macquarie 1:100,000 map sheets
- Soil landscapes of the Holbrook-Tallangatta 1:100,000 map sheets
- Soil landscapes of the Katoomba 1:100,000 map sheet
- Soil landscapes of the Kempsey 1:100,000 map sheet
- Soil landscapes of the Kiama 1:100,000 map sheet
- Soil landscapes of the Lismore-Ballina 1:100,000 map sheets
- Soil landscapes of the Macksville & Nambucca 1:100,000 map sheets
- Soil landscapes of the Michelago 1:100,000 map sheet
- Soil landscapes of the Murrurundi 1:100,000 map sheet
- Soil landscapes of the Murwillumbah-Tweed Heads 1:100,000 map sheets
- Soil landscapes of the Narooma 1:100,000 map sheet
- Soil landscapes of the Newcastle 1:100,000 map sheet
- Soil landscapes of the Penrith 1:100,000 map sheet
- Soil landscapes of the Port Stephens 1:100,000 map sheet
- Soil landscapes of the St Albans 1:100,000 map sheet
- Soil landscapes of the Tamworth 1:100,000 map sheet
- Soil landscapes of the Wagga Wagga 1:100,000 map sheet
- Soil landscapes of the Wallerawang 1:100,000 map sheet
- Soil landscapes of the Wollongong-Port Hacking 1:100,000 map sheets
- Soil landscapes of the Woodburn 1:100,000 map sheet

Published at 1:250,000 scale:

- Soil landscapes of the Bathurst 1:250,000 map sheet
- Soil landscapes of the Dubbo 1:250,000 map sheet
- Soil landscapes of the Forbes 1:250,000 map sheet
- Soil landscapes of the Goulburn 1:250,000 map sheet
- Soil landscapes of the Singleton 1:250,000 map sheet
- Soil landscapes of the Cootamundra 1:250,000 map sheet

Limitations on public access

| | |
|---|---|
| Scope | dataset |

DQ Completeness Commission

| | |
|---|---|
| Effective date | 2019-06-13 |
| Explanation | All soil landscape polygons in the GIS layer are labeled with a SALIS code (comprising of its map sheet number followed by a soil landscape code) and a soil landscape name. SALIS code is the unique identifier used for published soil landscapes that have not been mastered. Water polygons are left empty on purpose and not attributes are provided for these areas.<br><br>Soil landscape PDF report occurs for each map unit on eSPADE and in the download package. Complete reports also occur for Armidale, Baan Baa, Sydney,Eden-Green Cape, Cootamundra, Dubbo and Penrith. High quality JPG maps occur all mapping areas.<br><br>Each soil landscape map unit generally have at least three soil profile descriptions. Soil landscapes with difficult access have at least two soil profile descriptions. Field, technical and general editing has occurred on this dataset. |

DQ Conceptual Consistency

| | |
|---|---|
| Effective date | 2019-06-13 |
| 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 by a peer soil surveyor or soils quality officer. Soil landscape boundaries have been checked and refined using iterative field and aerial photo checks. |

DQ Topological Consistency

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|---|---|
| Effective date | 2019-06-13 |
| Explanation | ArcGIS was used to ensure all polygons in the shapefile are topologically correct (cluster tolerance 0.000003 DDeg) |

DQ Absolute External Positional Accuracy

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|---|---|
| Effective date | 2019-06-13 |
| Explanation | The accuracy of this map varies across Central and eastern NSW, as map polygon boundaries were derived from many different scales (see Lineage).Soil boundaries mapped at 1:100,000 scale are generally accurate to within 100 m. Soil boundaries mapped at 1:250,000 scale are generally accurate to within 250 m. |

DQ Non Quantitative Attribute Correctness

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|---|---|
| Effective date | 2019-06-13 |
| 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.<br><br>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.<br><br>Soils were examined and described in in the field. At each site, soil morphological data and site information were recorded on Soil and Land Information System (SALIS) cards. Sufficient field work was undertaken within each soil landscape to identify the range of soils present and to enable their distribution within the landscape to be described. |

## 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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| Responsible party role | pointOfContact |

## Metadata date

2024-09-16T23:30:33.819125

## Metadata language