

Title

Great Soil Group (GSG) Soil Type map of NSW

Abstract

This map provides soil types across NSW using the Great Soil Group classification. It uses the best available soils resource mapping coverage incorporating over 55 different datasets of multiple scales. Hence the published scale of this linework is between 1:100,000 - 1:500,000 depending on the dataset it originated from. Further information about these datasets are available in the 'Lineage', 'Positional accuracy' and 'Attribute accuracy' sections of the metadata.

The dominant soil type for each mapping unit was allocated using a modified listing of GSG soil types outlined in Table 1 (see dataset package).

Individual map units have been grouped and dissolved according to the GSG soil type field to produce the final map.

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: Department of Planning, Industry and Environment (2021) *Soil Group (GSG) Soil Type map of NSW - Version 4.5*, Department of Planning, Industry and Environment, Parramatta.

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's map

Function: download

[Data quality statement](#)

Name: Data quality statement

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

Description:

DQS - Great Soil Group (GSG) Soil Type map of NSW

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

[GSG data package](#)

Name: GSG data package

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

Description:

Download package: shapefiles, ESRI layer files and metadata

Function: download

[GSG metadata table and figure](#)

Name: GSG metadata table and figure

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

Description:

Download package: shapefile, Esri layer file and metadata figure

Function: download

[ArcGIS REST](#)

Name: ArcGIS REST Map Services

[Map Services](#)

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

Description:

Connect to REST map services using ArcGIS or ArcGIS online map viewer.

Function: download

[Land and soil information web page](#)

Name: Land and soil information web page

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

Description:

About land and soil information in NSW - DPIE's data systems and map products.

Function: download

[DPIE's Land and soil website](#)

Name: DPIE's Land and soil website

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

Description:

Soil information, mapping & management; land degradation & geodiversity.

Function: download

[Web Map Service \(WMS\)](#)

Name: Web Map Service (WMS)

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

Description:

Connect to WMS using your GIS.

Function: download

[KML Service](#)

Name: KML Service

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

Description:

Download KML for use in Google Earth.

Function: download

[Web Map Tile Service \(WMTS\)](#)

Name: Web Map Tile Service (WMTS)

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

Description:

Connect to WMTS using your GIS.

Function: download

Unique resource identifier

Code 34c37fe6-72c1-40ad-aae5-3005feb5a9ec

Presentation form mapDigital

Edition 4.5

Dataset language eng

Metadata standard

Name ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

Version	1.1
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/34c37fe6-72c1-40ad-aae5-3005feb5a9ec
Purpose	Support natural resource management and environmental decision making.
Status	completed
Spatial representation	
Type	vector
Geometric Object Type	surface
Geometric Object Count	66931
Spatial reference system	
Authority code	GDA94 Geographic (Lat\Long)
Code identifying the spatial reference system	4283
Equivalent scale	1:None
Additional information source	<p>Version changes</p> <p>Improvements incorporated into version 4.5 include:</p> <ul style="list-style-type: none"> • Revision of some GSG classifications for Far North Coast region and Cobargo area. • Minor adjustments to linework and attributes for the Hunter Region (version 2) • Updated linework and attributes for Camden Haven 1:100,000 map sheet area • Minor changes to spelling of some GSG names in the attribute table. • Minor linework edge-matching in North Coast area along with small fixups to linework and associated attributes across NSW. <p>GIS field name descriptions</p> <p>GSG_code - Dominant Great Soil Group (GSG) soil classification code.</p> <p>GSG_name - Dominant Great Soil Group (GSG) soil classification name.</p> <p>Version - Version number of dataset.</p> <p>References:</p> <p>Stace, H.C.T., Hubble G.D., Brewer R., Northcote K.H., Sleeman J.R., Mulcahy M.J. and Hallsworth E.G. 1968, <i>A Handbook of Australian Soils</i>, Rellim Technical Publication, Glenside.</p>
Topic category	Environment
Keyword set	
keyword value	<p>AGRICULTURE</p> <p>BOUNDARIES</p> <p>SOIL</p> <p>SOIL-Chemistry</p>

Originating controlled vocabulary

Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	141.001
East bounding longitude	153.668
North bounding latitude	-37.507
South bounding latitude	-27.998

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	2011-04-01
End position	N/A

Dataset reference date

Date type	creation
Effective date	2012-07-01
Date type	revision
Effective date	2021-04-29

Resource maintenance

Maintenance and update frequency	asNeeded
----------------------------------	----------

Contact info

Organisation name	Department of Planning, Industry and Environment
Full postal address	PO Box A290 Sydney South NSW 1232 Australia
	data.broker@environment.nsw.gov.au
Telephone number	131555
Facsimile number	02 9995 5999

Lineage

The best available soils datasets were sourced to provide a single (seamless where possible) layer across NSW. Datasets collated to derive this map included:

- published and draft 1:100,000 soil landscape mapping [1:100,000 scale]
- published and draft 1:250,000 soil landscape mapping [1:250,000 scale]
- Soil and Land Resources of the Hawkesbury Nepean Catchment [1:100,000 scale]
- Soil and Land Resources of the Liverpool Plains Catchment [1:100,000 scale]
- Soil and Land Resources of the Merriwa Plateau [1:100,000 scale]
- Soil and Land Resources of the Moree Plains [1:100,000 scale]
- Soil and Land Resources of the Hunter Region [1:100,000 scale]
- Reconnaissance Soil and Land Resources of the Murray CMA Catchment [1:100,000 & 1:250,000 scale]
- Soil Landscapes of the SCA Hydrological Catchments [1:100,000 scale]
- Soils landscapes of the Comprehensive Coastal Assessment (Bare Point, Jervis Bay, Batemans Bay and Ulladulla) [1:100,000 scale]
- Southern Comprehensive Regional Assessment [1:100,000 scale]
- Northern Comprehensive Regional Assessment [1:100,000 scale]
- Reconnaissance soil landscapes of the Namoi CMA [1:100,000 scale]
- Reconnaissance soil landscapes of the Upper Riverina (HSHL) [1:100,000 scale]
- Reconnaissance soil landscapes of the Border Rivers/Gwydir CMA [1:100,000 scale]
- Brigalow Belt South Western Regional Assessment [1:100,000 scale]
- Reconnaissance Soil Landscapes of the Upper Macleay Catchment [1:100,000 scale]
- Upper Murrumbidgee Soil Benchmarking project [1:100,000 scale]
- Glen Innes Data Gap Reconnaissance Soils Mapping [1:100,000 scale]
- Soil Information for the Nyngan 1:250,000 sheet [1:250,000 scale]
- Soil Information for the Walgett 1:250,000 sheet [1:250,000 scale]
- Soil Information for the Gilgandra 1:250,000 sheet [1:250,000 scale]
- Reconnaissance soil landscapes of the Riverine Plains [1:500,000 scale]
- Land Systems of the Western NSW [1:250,000 scale]
- Land Systems of the Cobar Peniplain Bioregion [1:250,000 scale]

Each map unit polygon was assigned a dominant GSG soil type of the largest facet (sub-landscape) area are using a modified listing of the Great Soil Group classification (Stace et. al. 1968) outlined in Table 1 (see dataset package). Individual map units were then dissolved according to the GSG soil type field to produce the final map.

It is common that multiple soil types will exist in most if not all polygons. Thus the map provides a guide to the most likely soil type present for each soil map unit in NSW.

Constraint set

Use constraints

This data is provided under a Creative Commons Attribution 4.0 licence <http://creativecommons.org/licenses/by/4.0> Attribute 'Department of Planning, Industry and Environment ' in publications using this data.

Limitations on public access

Scope

dataset

Completeness Commission

Date type revision

Effective date 2021-04-29

Explanation All polygons were labelled with a soil type class name and code as per the classification except for the following units below, which have been labelled accordingly: Water = Water; Disturbed Terrain and Rock = Not assessed.

An internal desktop review has been completed for the Great Soil Group soil type field.

Completeness Omission

Date type revision

Effective date 2001-01-01

Explanation

Conceptual Consistency

Date type creation

Effective date 2012-07-01

Explanation

Topological Consistency

Date type revision

Effective date 2020-01-30

Explanation ArcGIS was used to ensure all polygons in the feature class are topologically correct. (cluster tolerance 0.000003 DDeg).

Absolute External Positional Accuracy

Date type revision

Effective date 2021-04-29

Explanation The accuracy of this map coverage varies across NSW, as map polygon boundaries were derived from many different sources and scales (see Lineage). Soil boundaries using published and draft 1:100,000 scale mapping by DPIE are generally accurate to within 100 m. Soil boundaries using published or draft 1:250,000 scale, and reconnaissance 1:100,000 - 1:250,000 level soil landscape mapping are generally accurate to within 250 m. Land Systems is a different style of soil mapping product and published at a scale of 1:250,000 with linework generally accurate to within 250m. Some small alignment issues may occur for Land Systems mapping from issues with the digitizing process when first captured years ago into a digital format. Other small scale datasets (like Riverina Reconnaissance mapping - 1:500,000) are approximate and generally accurate to within 500m.

Non Quantitative Attribute Accuracy

Date type revision

Effective date 2021-04-29

Explanation The accuracy of attributes for this map coverage will vary across NSW, based on the source and mapping scale of the different datasets used to compose this product. A data source confidence diagram (Figure 1 in dataset package) shows these different datasets and their quality according to the NSW thematic map confidence classification outlined below:

- High (1) - All necessary soil and landscape data is available at a catchment scale (1:100,000) to undertake the assessment of LSC and other soil thematic maps.
- Moderate (2) - Most soil and landscape data is available at a catchment scale (1:100,000 & 1:250,000) to undertake the assessment of LSC and other soil thematic maps.
- Low (3) - Limited soil and landscape data is available at a reconnaissance catchment scale (1:100,000 & 1:250,000) and the LSC and other soil thematic maps.
- Very Low (4) - Very limited soil and landscape data is available at a broad catchment scale (1:250,000) and the LSC and other soil thematic maps should be used as a guide only.

Responsible party

Contact position	Data Broker
Organisation name	Department of Planning, Industry and Environment
Full postal address	PO Box A290 Sydney South NSW 1232 Australia data.broker@environment.nsw.gov.au
Telephone number	131555
Facsimile number	02 9995 5999
Email address	data.broker@environment.nsw.gov.au
Web address	http://www.planning.nsw.gov.au/
Responsible party role	pointOfContact

Metadata point of contact

Contact position	Data Broker
Organisation name	Department of Planning, Industry and Environment
Full postal address	PO Box A290 Sydney South NSW 1232 Australia data.broker@environment.nsw.gov.au
Telephone number	131555
Facsimile number	02 9995 5999
Email address	data.broker@environment.nsw.gov.au
Responsible party role	distributor

Metadata date 2012-07-01

Metadata language eng