

Title	State Vegetation Type Map: Central West / Lachlan Region Version 1.4. VIS_ID 4468
Alternative title(s)	CentWestLachSVM_v1p4_PCT_E_4468
Abstract	<p>This dataset was superseded by the State Vegetation Type Map (https://datasets.seed.nsw.gov.au/dataset/nsw-state-vegetation-type-map) on 24.06.2022.</p> <p>Please note, Central West / Lachlan Region Version 1.4. VIS_ID 4468 web service and zipped dataset will be archived and will no longer be available on line after 31st March 2025.</p> <p>The NSW Office of Environment and Heritage (OEH) is producing a new map of the State's native vegetation. This seamless map of NSW's native vegetation types will enable government, industry and the community to better understand the composition and the relative significance of the native vegetation in their local area.</p> <p>The State Vegetation Type Map (SVTM) (http://www.environment.nsw.gov.au/vegetation/state-vegetation-type-map.htm) is constructed from the best available imagery, site survey records, and environmental information. Existing vegetation mapping has been integrated in some locations. Each vegetation survey is assigned to a Plant Community Type (PCT) and this is used to create a model of the distribution of each type. Their place in the landscape is then attributed based on the visual interpretation of vegetation structure. The SVTM is designed to be dynamically improved and upgraded as new local information becomes available.</p> <p>Each quickview map is attributed with a code for all three tiers of the NSW vegetation type classification system: Formations, Classes, and Plant Community Types (PCTs).</p> <p>The following fields are available for all maps:</p> <p>PCTID: The unique identifier for the Plant Community Type. The PCT Id is captured as part of the mapping program.</p> <p>PCTName: A colloquial description of the plant community that can be understood by non-botanists. It may include common names of dominant plant species, names of a geographical region, a substrate, a soil type or a climatic zone.</p> <p>PCTIDMod1: The most likely Plant Community Type to occur in the polygon, identified by its PCT Id. This value is as derived from a spatial model that may provide one or more PCT alternatives. It provides an indication of PCT uncertainty, as several PCTs will usually have some probability of occurring at any particular location.</p> <p>PCTIDMod2: The second most likely Plant Community Type identifier as derived from a spatial model.</p> <p>PCTIDMod3: The third most likely Plant Community Type identifier as derived from a spatial model.</p> <p>mapSource: The various sources of information used in deriving the vegetation map, including spatial models, visual interpretation and existing map products.</p> <p>vegetationClass: Equivalence of a community to one of the Vegetation Classes as originally defined in the Keith (2004) Statewide Vegetation Map.</p> <p>vegetationFormation: Equivalence of a community to one of the Vegetation Classes as original defined in the Keith (2004) Statewide Vegetation Map.</p> <p>USER ACCURACY of Plant Community Type Models:</p> <p>These results should be interpreted as a reflection of the model user accuracy, not map accuracy. [Map Accuracy = API Accuracy (visual interpretation of ADS40) x Model Accuracy (PCT Model Results)]. The accuracy of the API produced landscape class map has not been assessed at this stage. The model user accuracy</p>

below was derived by cross validation for CWL and RIV and by an 80/20 split for BRGN. User accuracy using cross validation is an estimate of how well the model would perform on a new, unmapped location. PCT User Accuracy is represented as a % (percentage). The number of field survey samples is recorded in the field Number of sites per PCT. The summary table below shows the number of PCTs modelled in each study area and the number of sites available (RIV includes pseudo-sites). PCT User Accuracy is weighted by the Number of sites per PCT. Accuracy is not reported for PCTs with less than 5 records. **For a full description per PCT of user accuracy, please see attached 'User_Accuracy_per_PCT_VIS_ID_4468.pdf' located below under 'Data and Resources'.**

Table 1: SVTM Number of PCTs, number of sites per PCT and PCT User Accuracy (weighted by number of sites)

Area	Number of PCTs	Number of Sites	PCT user accuracy weighted by number of sites
NBRG*	268	2534	54.9
CWL**	198	10463	62.2
RIV	130	10699	57.5
Total	596	23696	58.2

Results based on 80/20 Cal/Val split*

Cross validation results**

Quickview maps are simplified versions of the vegetation maps and only contain a subset of the attributes available. They are easier to navigate but still contain the top 3 most likely PCTs for each polygon.

The quickview maps are available by request from the Data.Broker@environment.nsw.gov.au. The full datasets are available as 1:100,000 map tiles, also by request from the Data.Broker@environment.nsw.gov.au.

A technical report is in press: State of New South Wales and Office of Environment and Heritage (2016) NSW State Vegetation Type Map – Central NSW, Part A: Summary, NSW Office of Environment and Heritage, Sydney, Australia. Meanwhile, for more technical detail about how the maps are created, or more detailed data, contact Bionet@environment.nsw.gov.au or visit <http://www.environment.nsw.gov.au/vegetation/state-vegetation-type-map.htm>. VIS_ID 4468

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

Data Quality Statement - Central West Lachlan VIS ID 4468

Function: download

Name: Data Quality Statement - Central West Lachlan VIS ID 4468

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

Description:

DQS - Central West Lachlan SVM VIS ID 4468

Function: download

User Accuracy per PCT VIS ID 4468

Name: User_Accuracy_per_PCT_VIS_ID_4468

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

Description:

User Accuracy per PCT: Central-West / Lachlan : VIS_ID_4468

Function: download

Download ZIP package

Name: Download ZIP package

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

Description:

Download Spatial data and Reports

Function: download

Technical Report

Name: Technical Report

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

Description:

Download Technical Report

Function: download

KMZ

Name: KMZ

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

Description:

Connect to KML service (view in Google Earth)

Function: download

WMS

Name: WMS

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

Description:

Web Map Service (WMS). Connect to WMS for SVTM quickview 5 metre derived grid.

Function: download

REST Service

Name: REST Service

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

Description:

ArcGIS REST Services Directory - provides a variety of interfaces for web browsers, GIS users and developers, to view quickview maps (5 metre-derived grid).

Function: download

Unique resource identifier

Code

6379ca22-72ad-4915-9e96-62df2848fd2c

Presentation form

Map digital

Edition	Not known
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/6379ca22-72ad-4915-9e96-62df2848fd2c
Purpose	This dataset was developed as part of the OEH State Vegetation Map to provide government and community with regional -scale information about native vegetation.
Status	On going
Spatial representation	
Type	vector
Geometric Object Type	curve
Geometric Object Count	1
Spatial reference system	
Code identifying the spatial reference system	4283
Equivalent scale	1:None
Additional information source	A technical report is in press: State of New South Wales and Office of Environment and Heritage (2016) NSW State Vegetation Type Map – Central NSW, Part A:
Topic category	

Keyword set	
keyword value	Plant Community Type Vegetation
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	143.82802
East bounding longitude	150.36202
North bounding latitude	-34.74714
South bounding latitude	-30.11553
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	2015-01-01
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

A summary of the product's lineage is below.

The PCT map was derived primarily using a spatial modeling approach augmented with high resolution aerial imagery (50cm ADS40) for visual interpretation and automated line-work derivation.

In summary the process for PCT attribution involved the following:

Vegetation Survey and Classification: Existing floristic plot data comprised over 11000 existing sites after data cleaning. A large number of gaps in existing survey coverage were evident and required further survey information. To allocate survey sites to PCTs, full floristic plots were analysed using a UPGMA clustering approach in Primer with significant groups identified using SIMPROF and species contributions for each resulting group calculated using SIMPER.

Pattern Derivation: A multi-resolution segmentation algorithm was used to create image objects with low internal variation. Image objects represent patches of vegetation that can later be classified based on attributes such as crown cover, spectral response, or soil type. The segmentation parameters and scale was derived iteratively based on visual inspection. Vegetation patterns from existing stereoscopic aerial photo interpretation and those recognised in high spatial resolution imagery (ADS40) were used as a reference point. Segmentation was performed using ADS40, SPOT 5 and SRTM derived topographic indices. This process provided the line work for subsequent PCT attribution. **Visual attribution of Landscape Class:** The purpose of attributing Landscape classes to polygons is to predetermine broad vegetation types for modeling purposes using remote sensing. These classes reduce the PCT options for any one polygon making the modeling more effective in its attribution with commensurate less computing effort/time. A landscape class was attributed to every polygon in the study area. Landscape classes were aided by reference to existing mapping. Corrections were made based on ADS40 with on-screen attribution. Every polygon was visually checked by an expert interpreter.

Modeling Envelopes: As a further constraint to modeling outcomes, spatial envelopes were used to constrain PCTs to a certain geographic range, reducing the amount of types competing within the model at any particular location. The constraints used were applied at different stages in the mapping process. The constraints were derived from particular IBRA (Interim Bioregionalisation of Australia v7; Commonwealth of Australia 2012) subregions, selected based on review of the literature and expert opinion. The type models were constrained to particular ranges of a topographic position index, again based on literature review and expert opinion. Not all types were constrained by topographic envelopes, as some were considered to be less correlated with particular topographic positions.

Spatial Distribution Modeling of Plant Community Types: Modeling of PCT used Boosted Regression Trees (BRT). A suite of candidate environmental predictor variables, including climate, geology, soil, geophysical data, and terrain indices, were compiled for use in BRT models. A comprehensive list of these predictor variables will be found in the Technical Notes.

Uplifted API and Expert Editing: Vegetation communities from the MacquarieMarshesVeg2008_VIS3920 (Bowen, S. & Simpson, S. (2009)) were spatially translated into the current line-work via a majority extent per polygon algorithm. The vegetation community mapping resulting from the aforementioned procedures was extensively edited on screen to correct attribution where there may have been for example existing API, missed vegetation, ecological anomalies, incorrect assignments, modeling noise and inclusion of late site data.

Limitations on public access

Scope	dataset
DQ Completeness Commission	
Effective date	1901-01-01
DQ Completeness Omission	
Effective date	1901-01-01
DQ Conceptual Consistency	
Effective date	1901-01-01
DQ Topological Consistency	
Effective date	1901-01-01
Explanation	geometrically and topologically correct
DQ Absolute External Positional Accuracy	
Effective date	1901-01-01
DQ Non Quantitative Attribute Correctness	
Effective date	1901-01-01
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	
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 date	2024-10-10T04:52:59.443749
Metadata language	