Title	NSW Landuse 2017 v1.5
Alternative title(s)	Landuse Mapping for NSW 2017

Abstract

The 2017 Landuse captures how the landscape in NSW is being used for food production, forestry, nature conservation, infrastructure and urban development. It can be used to monitor changes in the landscape and identify impacts on biodiversity values and individual ecosystems.

The NSW 2017 Landuse mapping is dated September 2017.

This is version 1.5 of the dataset, published December 2023.

Version 1.5 of the 2017 Landuse incorporates the following updates:

- Fine scale mapping of the Central Coast, Illawarra and Shoalhaven regions
- Mapping enhancements to regional centres to improve the mapping accuracy for these centres
- NSW road network based on road centreline data from Transport NSW, with standardised buffer applied to approximate the carriage width based on the road type
- Plantation type (native hardwood and softwood) information within State Forest Estates
- Horticulture data to tertiary or commodity level present in September 2017 from Australian Tree Crop Map Dashboard developed by University of New England - Applied Agricultural Remote Sensing Centre https://www.une.edu.au/research/research-centres-institutes/applied-agricultural-remote-sensing-centre/collaborative-r-and-d-opportunities/industry-applications-and-maps
- Fixes to identified errors since published version 1.2

Previous Versions *Version 1.4 internal update (not published) * Version 1.3 internal update (not published) * Version 1.2 published 24 June 2020 - Fine scale update to Greater Sydney Metropolitan Area * Version 1 published August 2019

The 2017 Landuse is based on Aerial imagery and Satellite imagery available for NSW. These include, but not limited to; digital aerial imagery (ADS) captured by NSW Department of Customer Service (DCS), high resolution urban (Conurbation) digital aerial imagery captured on behalf of DCS, SPOT 5, 6 & 7(Airbus), Planet™, Sentinel 2 (European Space Agency) and LANDSAT (NASA) Satellite Imagery. Mapping also includes commercially available imagery from Nearmap™ and Google Earth™, along with Google Street View™.

Mapping takes into consideration ancillary datasets such as tenure such as National Parks and State forests, cadastre, roads parcels, land zoning, topographic information and Google Maps, in conjunction with visual interpretation and field validation of patterns and features on the ground.

The 2017 Landuse was captured on screen using ARC GIS (Geographical Information Software) at a scale of 1:8,000 scale (or better) and features are mapped down to 2 hectares in size. Exceptions were made for targeted Landuse classes such as horticulture, intensive animal husbandry and urban environments, which were mapped at a finer scale.

The 2017 Landuse has complete coverage of NSW. It also includes updates to the fine scale Horticulture mapping for the east coast of NSW - Newcastle to the Queensland boarder and Murray-Riverina Region. This horticultural mapping includes operations to the commodity level based on field work and high-resolution imagery interpretation.

Landuse classes assigned are based on activities that have occurred in the last 5-10 years that may be part of a rotational practice. Time-series LANDSAT information has been used in conjunction with more recent Satellite Imagery to determine whether grasslands have been disturbed or subject to ongoing land management activities over the past 30 years.

The 2017 Landuse was captured on screen using ARC GIS (Geographical Information Software) at a scale of 1:8,000 scale (or better) and features are mapped down to 2 hectares in size. Exceptions were made for targeted Landuse classes such as horticulture, intensive animal husbandry and urban environments (including Greater Sydney Metropolitan region), which were mapped at a finer scale.

The reliability scale of the dataset is 1:10,000.

Mapping has been subject to a peer review and quality assurance process.

Land use information has been captured in accordance with standards set by the Australian Collaborative Land Use Mapping Program (ACLUMP) and using the Australian Land Use and Management ALUM Classification Version 8. The ALUM classification is based upon the modified Baxter & Russell classification and presented according to the specifications contained in http://www.agriculture.gov.au/abares/aclump/land-use/alum-classification.

This product will be incorporated in the National Catchment scale land use product 2020 that will be available as a 50m raster - Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) http://www.agriculture.gov.au/abares/aclump/land-use/data-download

The Department of Planning, Industry and Environment (DPIE) will continue to complete land use mapping at approximately 5-year intervals.

The 2017 Landuse product is considered as a benchmark product that can be used for Landuse change reporting. Ongoing improvements to the 2017 Landuse product will be undertaken to correct errors or additional improvements to the mapping.

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: Data quality statement for NSW Landuse 2017 Function: download
Download Package	Name: Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data (Shapefile and Esri Geodatabase) Function: download
ArcGIS REST Service: NSW Landuse 2017 v1.5	Name: ArcGIS REST Service: NSW Landuse 2017 v1.5 Protocol: WWW:DOWNLOAD-1.0-http--download Description: An ArcGIS Server web service represents a GIS resource such as a map, locator, or image that is located on an ArcGIS Server site and is made available to client applications. Depending on the layers enabled, this web service allows a user to query its features and/or visualise the dataset. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as ArcGIS/ArcMap. Function: download
Web Map Service: NSW Landuse 2017 v1.5	Name: Web Map Service: NSW Landuse 2017 v1.5 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Web Map Service Function: download
WMTS: NSW Landuse 2017	Name: WMTS: NSW Landuse 2017 v1.5 Protocol: WWW:DOWNLOAD-1.0-http--download

v1.5	Description: Web Map Tile Service (WMTS) Function: download

Unique resource identifier

Code	68722535-74fb-4096-82ba-a908c611c53f

Presentation form	Map digital
Edition	1.5
Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/68722535-74fb-4096-82ba-a908c611c53f
Purpose	Legislative and Regulatory requirements
Status	On going

Spatial representation

Type	vector

Spatial reference system

Code identifying the spatial reference system	4283

Equivalent scale	1:None
Additional information source	Nominal mapping date is 25 August 2017.

Topic category

Keyword set

keyword value	LAND-Use AGRICULTURE AGRICULTURE-Horticulture AGRICULTURE-Crops FORESTS-Agriforestry AGRICULTURE-Irrigation

	AGRICULTURE-Livestock
	LAND-Cover
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	140.888672
East bounding longitude	153.984375
North bounding latitude	-37.71859
South bounding latitude	-27.916767
NSW Place Name	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	2013-07-30
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

Landuse data for NSW is captured in accordance with standards from Australian Collaborative Landuse Mapping Program, using the Australian Land Use and Management classification ALUM version 8.

Limitations on public access

Scope	dataset

DQ Absolute External Positional Accuracy

Effective date	2020-05-29
Explanation	Positional accuracy is with 10m of on-ground position based on spatial precision of imagery used.

DQ Non Quantitative Attribute Correctness

Effective date	2020-05-29

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
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Metadata date

2025-05-09T03:01:18.999457

Metadata language