

Abstract

This layer shows state-wide SLATS Non-Woody data based on the analysis of multi-date Sentinel2 and Planet Maps imagery for 2018, 2019 & 2020.

Non-woody disturbance (removal of grasses, small shrubs and groundcover) is identified by interpreters by comparing two high-resolution satellite images and analysing changes using a range of additional data and imagery products. NWD eras are defined by the year that the majority of clearing took place. Interpreters assign a replacement landcover class that indicates the likely purpose for which the vegetation was disturbed.

A summary of the method is as follows:

1. Non-woody disturbance across the state is detected in areas that have low disturbance from 1990. State forest and National Park are excluded from this analysis.
2. Visual assessment is done at a scale of 1:20,000 across the state using pre and post imagery sources and ancillary datasets.
3. Where disturbance is identified, it is captured and mapped a scale of 1:10,000 (or finer scale).
4. Data is available as a raster at 10m cell

Non-woody disturbance data is combined with State-wide Land and Tree Study data and the Native Vegetation Regulatory Map to produce the Rural Regulated Landcover Monitoring Report. Analysis is undertaken to prevent double counting across clearing events.

For greater accuracy, SLATS non woody clearing mapping occurs over 2 mapping seasons. The data packages on SEED combine both into a single year of clearing.

Non-woody disturbance is provided as a raster with the following data key:

1. Natural
2. Agriculture
3. Infrastructure
4. Forestry

Links to the relevant landcover change on rural regulated land reports and spreadsheets are shown below:

<https://www.environment.nsw.gov.au/topics/animals-and-plants/native-vegetation/landcover-science/2021-nsw-vegetation-clearing-report#:~:text=In%202021%2C%204%2C724%20hectares%20were,a%2041%25%20increase%20on%202020.>

<https://www.environment.nsw.gov.au/topics/animals-and-plants/native-vegetation/landcover-science/2020-landcover-change-reporting>

<https://www.environment.nsw.gov.au/topics/animals-and-plants/native-vegetation/landcover-science/2019-landcover-change-reporting>

<https://www.environment.nsw.gov.au/topics/animals-and-plants/native-vegetation/landcover-science/2018-landcover-change-reporting>

Remotely sensed imagery is routinely collected by DPE and used to map vegetation clearing. This data is spatially explicit and can be used with other datasets to identify activity on individual lots. Please read the Privacy collection notice (PDF 50KB) for more information.

Resource locator

[Data Quality Statement](#)

Name: Data Quality Statement

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

Description:

Data quality statement for Non Woody Disturbance 2018 Era Data

Function: download

[Privacy Collection Notice](#)

Name: Privacy Collection Notice

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

Description:

Notice that Spatially explicit imagery is routinely collected by the department. Spatially explicit data can be used to identify activity at a property scale.

Function: download

[2018 SLATS Non Woody spatial data](#)

Name: 2018 SLATS Non Woody spatial data

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

Description:

SLATS Non Woody spatial data Key: 1 - natural 2 - agricultural 3 - Infrastructure 4 - Forestry

Function: download

[2019 SLATS Non Woody spatial data](#)

Name: 2019 SLATS Non Woody spatial data

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

Description:

SLATS Non Woody spatial data Key: 1 - natural 2 - agricultural 3 - Infrastructure 4 - Forestry

Function: download

[2020 SLATS Non
Woody spatial
data](#)

Name: 2020 SLATS Non Woody spatial data

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

Description:

SLATS Non Woody spatial data Key: 1 - natural 2 - agricultural 3 - Infrastructure 4 - Forestry

Function: download

Unique resource identifier

Code cb1b4925-c027-4234-97bd-cc04103cf834

Presentation form Map digital

Edition 1

Dataset language English

Metadata standard

Name ISO 19115

Edition 2016

Dataset URI <https://datasets.seed.nsw.gov.au/dataset/cb1b4925-c027-4234-97bd-cc04103cf834>

Purpose To support the NSW Annual SLATS and Woody - Non Woody on Rural Regulated land reports which are DPIE's comprehensive summary of actions undertaken by private and public land managers to conserve and manage native vegetation. These reports are released in June each year.

Status Completed

Spatial representation type grid

Spatial reference system

Code identifying the spatial reference system 4283

Spatial resolution 5 m

Topic category

Keyword set	
keyword value	PHOTOGRAPHY-AND-IMAGERY-Satellite VEGETATION LAND-Cover
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	141
East bounding longitude	154
North bounding latitude	-37.7
South bounding latitude	-28
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	2018-01-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Not planned
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	Validation:Manual desktop mapping using ArcGIS Peer Review: Manual check of initial edits by first mapper using ArcGIS Panel Review: Round table discussion,presentation,analysis of Statewide dataset for refinement Vector to raster conversion using the Scientific Data Compute(SDC) for processing and delivery
Limitations on public access	
Responsible party	
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Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
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Metadata date	2024-09-18T04:05:45.119040
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Metadata language	
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