

Title	Greater Sydney Region Urban Vegetation Cover to Modified Mesh Block 2016
Abstract	<p>The Greater Sydney Region Urban Vegetation Cover to Modified Mesh Block 2016 provides both an area and percentage of vegetation for city blocks and infrastructure corridors in the Greater Sydney Region as of 2016. With this dataset, users can estimate tree canopy and vegetation cover in urban areas at many scales, such as mesh block, precinct, or local government area. Having current and accurate estimates of tree canopy and vegetation like this supports citizens and governments to reliably identify areas of tree canopy and confidently develop urban greening and heat island mitigation strategies and action.</p> <p>This dataset provides the user with information of high spatial accuracy. The dataset uses vegetation information derived from high resolution aerial photography combined with boundary and land use information from the Australian Bureau of Statistics (ABS) Mesh Block polygon dataset augmented with road and railroad data from the NSW Digital Cadastral Database. The content was co-designed with state and local governments and developed using scientifically-rigorous methodologies. The extent of the dataset covers urban, major urban, peri-urban and other urban areas within the Greater Sydney Region. While the dataset provides wall to wall coverage of many councils, it does not include far outlying rural areas in the Region.</p>
Resource locator	
Data Quality Statement	<p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data quality statement for Greater Sydney Region Vegetation Cover Estimates to Cadastre 2016</p> <p>Function: download</p>
User guide for OEH urban heat and green cover datasets	<p>Name: User guide for OEH urban heat and green cover datasets</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Guidance and data description for use by NSW Local Government Areas for local environmental planning. This document contains detailed guiding information on the use conditions and descriptions for the NSW Office of Environment and Heritage (OEH) urban heat and vegetation cover datasets, especially for use in support of multi-scale analysis (i.e., local government areas and regional).</p> <p>Function: download</p>
Download Package	<p>Name: Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data (Shapefile & Geodatabase)</p> <p>Function: download</p>
ArcGIS Layer files for mapping tree canopy and vegetation	<p>Name: ArcGIS Layer files for mapping tree canopy and vegetation</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Layer files for symbology when using ArcGIS/ArcMap v. 10.x for displaying the dataset. Layer files include All Vegetation, Shrubs & Trees only and Tree Canopy. Each layer file displays the percentage of each vegetation canopy group into five classes (less than 10%, 10% to 20%, 20% to 30%, 30% to 40% and greater than 40%) for the named vegetation attribute/field. Each class is a shade of green.</p> <p>Function: download</p>
Summary of vegetation for the Significant Urban Area (ABS) for the	<p>Name: Summary of vegetation for the Significant Urban Area (ABS) for the Greater Sydney Region, by LGA, Suburb and Land Zone, 2016</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p>

Greater Sydney
Region, by LGA,
Suburb and
Land Zone,
2016

Title: Table of vegetation cover for the Significant Urban Area (ABS) for the Greater Sydney Region, summarised by Local Government Area, Suburb and Land Zone, 2016 Purpose: The table provides a summary representation of vegetation cover in metropolitan Sydney by LGA, suburb and land zone in 2016, and may be suitable for analysis of vegetation and land use for environmental planning. Description: The table depicts the area (square meters and hectares) and percentages of vegetation classes for each land zone in LGA Suburbs. Vegetation classes are defined as grass (less than 0.5 metres high), shrub (0.5 to 3 metres high) and trees/tree canopy (greater than 3 metres high). All vegetation is the sum of grass, shrub and trees. Total Area is the area used to calculate the percentages. For metadata and methodology information for the vegetation cover data, please reference the SEED record for Greater Sydney Region Urban Vegetation Cover to Modified Mesh Block 2016:

<https://datasets.seed.nsw.gov.au/dataset/greater-sydney-region-urban-vegetation-cover-to-modified-mesh-block>

Data Sources: 2016 Greater Sydney Region urban vegetation cover (NSW Office of Environment and Heritage); Environmental Planning Instrument - Land Zoning (NSW Department of Planning and Environment) - from 1 November 2016 for comparison purposes Process: Utilising ArcGIS, the urban vegetation cover data was integrated with the Land Zoning dataset. Standard Data Quality management procedures were performed on both the source data and the integration process. Limitations: This summary was generated from the source imagery using the same methodology as the vegetation cover to the modified mesh blocks. The table is to be considered as accurate as the information contained in the source datasets and reflects the land zone and vegetation cover conditions in 2016. The vegetation cover data was collected to the extent of the Significant Urban Area of Metropolitan Sydney and does not provide complete coverage for LGAs with rural areas. Noted exclusions in the vegetation cover data are rural areas in Wollondilly, Blue Mountain and Hawkesbury LGAs.

Note the attached file for download contains the table in CSV format and a READ ME guidance document in RTF format.

Function: download

ArcGIS REST
Service - GSR
Urban Veg
Cover

Name: ArcGIS REST Service - GSR Urban Veg Cover

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

WMS - GSR
Urban Veg
Cover

Name: WMS - GSR Urban Veg Cover

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

Description:

Web Map Service (WMS) is a standard protocol for serving georeferenced map images over the internet that are generated by a map server using data from a GIS Database (NSW Government - Spatial Web Services Register June 2015). WMS allows a user to spatially visualise the dataset, but not query its features. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as QGIS and ArcGIS/ArcMap

Function: download

Greater Sydney
Canopy and
Thermal
Assessment
2014 and 2016

Name: Greater Sydney Canopy and Thermal Assessment 2014 and 2016

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

Description:

This report describes the production of the information derived from digital aerial photography, satellite thermal and other data for environmental and other assessments for the Greater Sydney area, New South Wales, Australia. This includes the generation of baseline information on elevations, ground reflectance, presence of vegetation and its height, and accompanying meta-data. Historic data acquired in 2016 was used representing a relatively recent capture with large geographic coverage, and data acquired from 2014 used as a caparitor year over regions of interest. The information was generated using Urban Monitor® technology developed by the CSIRO. The spatial information produced supports further analysis by State, Local,

Commonwealth and other agencies and research organisations involved in greenspace and other assessments. The digital data has been provided to enable it to be combined with other datasets.

Function: download

Unique resource identifier

Code 888e253e-3b4e-4564-93ba-02f00ad3f2c5

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/888e253e-3b4e-4564-93ba-02f00ad3f2c5>

Purpose urban and environmental planning, vegetation/tree cover analysis

Status Completed

Spatial representation

Type vector

Geometric Object Type complex

Spatial reference system

Code identifying the spatial reference system 4283

Spatial resolution 10 cm

Additional information source Data geographic extent covers all the Local Government Areas in the Greater Sydney Region. It is limited to the ABS Significant Urban Area (SUA) of the Sydney Greater Metropolitan Area (GMA). The extent of the SUA means complete and consistent coverage for the major urban, urban, peri-urban and other urban areas of the Sydney GMA. This means that there is limited coverage for rural areas, primarily in many of the outlying and heavily rural Local Government Areas within the Greater Metropolitan Area, such as the outlying areas of Hawkesbury and Wollondilly LGAs.

Topic category

Keyword set

keyword value

VEGETATION

HUMAN-ENVIRONMENT-Urban-Design

HUMAN-ENVIRONMENT-Livability

HUMAN-ENVIRONMENT-Planning	
LAND-Cadastre	
LAND-Cover	
LAND-Use	
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	150.19
East bounding longitude	151.4
North bounding latitude	-34.2
South bounding latitude	-33.42
NSW Place Name	Greater Sydney Region
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	2016-04-01
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	<p>The Greater Sydney Region Vegetation Cover to Modified Mesh Block 2016 is a subset of the NSW Urban Vegetation Cover to Modified Mesh Block 2016. It includes all Local Government Areas (Councils) in this Region. The NSW Urban Vegetation Cover to Modified Mesh Block 2016 is a vector polygon dataset at sub-meter accuracy, developed through a contract with the Royal Melbourne Institute of Technology (RMIT). The dataset is derived from the overlay of the NSW Urban Vegetation Cover 2016 raster imagery dataset with the Australian Bureau of Statistics (ABS) Mesh Block, modified with the road and railroad datasets of the NSW Digital Cadastral Database. The vegetation cover raster imagery dataset was produced as a digital surface model through a reclassification of high resolution (30 cm) digital aerial photography analysed using Commonwealth Science and Industry Research Organisation's (CSIRO) Urban Monitor methodology. The analysis was conducted by CSIRO in 2018. Attention was provided to ensure minimal cloud coverage on the aerial photographs, and as a result, the flight date extends many months across 2016 to capture acceptable imagery for the full project study area extent. Quality control of the data was conducted continuously throughout the development of the data and included inspection of results and integrity testing. The Urban Vegetation Cover 2016 was overlaid with the ABS Mesh Block and the road and railroad dataset of the NSW Digital Cadastral Database (extraction dated 1/11/2016). The vegetation raster cover classification distinguishes six classes by analysing the spectral signature and elevation differences from the height of the feature to ground level - grass (less than 0.5 metres), shrub (0.5 to 3 metres), trees (3 to 10 metres, 10 to 15 meters and greater than 15 metres) and non-vegetation. Integration of the raster data with mesh block polygons was performed with the assistance of Western Australia University. This process analysed the vegetation composition within each area and derived a quantum of each vegetation class in square metres and a percent of each class by polygon. The final product was delivered to OEH to the data specifications.</p>
Limitations on public access	

Scope	dataset
DQ Completeness Commission	
Effective date	2019-01-15
Explanation	The dataset has complete coverage for the Greater Sydney Region subset of the designated Significant Urban Area of Sydney Greater Metropolitan Area. This includes the major urban, urban, peri-urban and other urban areas of the included Local Government Areas. The dataset has complete coverage for the Greater Sydney Region and the Local Government Areas within it, with the exception of outlying, largely rural areas of Hawkesbury and Wollondilly LGAs. It also includes areas that share a boundary with the Greater Sydney Region, so that there is ensured full inclusion.
DQ Completeness Omission	
Effective date	2019-01-15
Explanation	The dataset has complete coverage for the designated Significant Urban Area of Greater Sydney Region. As such it does not provide complete coverage to LGAs which have rural areas or large areas devoted to national parks. This is largely defined as the outlying areas of Hawkesbury and Wollondilly LGAs located on the periphery of the Greater Sydney Region. This is because of the limits of the extent and completeness omissions of the Urban Vegetation Cover 2016 raster dataset. Therefore, the dataset cannot provide complete land cover/vegetation cover analysis for every LGAs in the study area.
DQ Conceptual Consistency	
Effective date	2019-01-15
Explanation	Local Government Area users of the data will need to double check that their known boundaries are correctly identified. In the dataset, the LGA name that is given to a Modified Mesh Block may be inaccurate, due to the modified Mesh Blocks boundaries not nesting within the LGA boundaries completely. The LGA boundaries were overlaid with the Modified Mesh Blocks polygons and the LGA names were assigned to the Mesh Block with the greatest area within it. Note 2017 LGA boundaries were used. The knock on effect is that the Mesh Block may not correspond to the correct District. This issue most likely occurs with more rural Mesh Blocks at the boundaries, such as near Campbelltown, Wollondilly or Sutherland. It may also occur where roads form a boundary between LGAs. As adequate data validation was performed, this issue is likely minor and not affecting every LGA.
DQ Topological Consistency	
Effective date	2019-01-15
Explanation	The dataset is deemed correct and consistent to the parameters of the Urban Monitor methodology, and the consistency of the NSW Digital Cadastral Database and ABS Mesh Block dataset.
DQ Absolute External Positional Accuracy	
Effective date	2019-01-15
Explanation	98% of the features are expected to be within 2% of their true size and shape.
DQ Non Quantitative Attribute Correctness	
Effective date	2019-01-15
Explanation	Non-quantitative attributes are deemed to be accurate as of the date of the review (15/01/2019) and by explanations provided in the source datasets.

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 2024-02-26T12:46:30.761574

Metadata language