

Title Greater Sydney Region Tree Canopy 2022

Abstract

The Greater Sydney Region 2022 canopy dataset provides information on tree canopy cover, vegetation health, land surface temperature, and individual trees for the metropolitan urban area and metropolitan rural area of Greater Sydney. This data can be analysed from the individual tree point to regional scale. Having current and accurate estimates of tree canopy supports councils and government to reliably identify areas of tree canopy and confidently develop urban greening and heat island mitigation strategies and actions. This dataset provides the user with information at a known spatial accuracy. The dataset is based off aerial imagery with a resolution of 0.16cm to 0.48m (dependent on spectral band) captured by ArborCarbon Pty Ltd.

This dataset can be accessed by Greater Sydney councils, NSW Government employees, and members of the public (subject to department assessment and approval).

Please fill out this [form](#) to access the dataset. Users will be required to sign a [Digital Data Deed Poll](#) to access the data.

A version of the 2022 canopy dataset, summarised to Modified Mesh Block, is publicly available on the SEED portal [here](#).

In the dataset, "tree canopy" is classified as all vegetation greater than 3m. "All vegetation" includes all vegetation, including tree canopy, greater than 0m. Note: due to data limitations, not all grass areas have been identified in their entirety.

More information on the 2022 Greater Sydney canopy dataset can be found [here](#).

Resource locator

[Data Quality Statement](#)

Name: Data Quality Statement

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

Description:

Data quality statement for Greater Sydney Region Tree Canopy 2022

Function: download

[Metadata for 2022 Greater Sydney Region canopy data](#)

Name: Metadata for 2022 Greater Sydney Region canopy data

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

Description:

Metadata for 2022 Greater Sydney canopy dataset split by Greater Sydney Region local government area.

Function: download

[2022 Canopy Data Methodology Report](#)

Name: 2022 Canopy Data Methodology Report

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

Description:

This report contains the methodology used to acquire, process and analyse the 2022 Greater Sydney canopy data.

Function: download

[Tree Canopy Summarised by LGA and Suburb \(2022 and 2019\)](#)

Name: Tree Canopy Summarised by LGA and Suburb (2022 and 2019)

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

Description:

The excel document "Tree Canopy Summarised by LGA and Suburb (2022 and 2019)" provides statistics for canopy cover for the metropolitan urban area of Greater Sydney. The primary 2022 data was calculated using the underlying 2022 raster imagery, the comparison 2019 dataset was calculated using the 2019 raster imagery modified to the same boundaries as the 2022 dataset. The statistics are summarised by Local Government Area and suburb, for the 2019 and 2022 Greater Sydney canopy datasets. The statistics have been summarised for the metropolitan urban area of Greater Sydney as this is the geographic area previously analysed.

Statistics for the Total LGA and Suburb areas for the 2019 dataset have also been

included for reference.

Best efforts were made to develop comparable statistics for the 2019 and 2022 canopy datasets using the raster base imagery. However due to differences in data acquisition and processing methods, there may be some variation in the summary statistics. Care should be taken when comparing canopy cover between datasets, especially in LGAs with a lower proportion of Metropolitan Urban Area, as some observed differences may be a result of variations in methodologies rather than actual change in canopy cover.

Function: download

Unique resource identifier

Code 64adb4b2-79a3-408d-a2db-813cd623e8cd

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/64adb4b2-79a3-408d-a2db-813cd623e8cd>

Purpose Green infrastructure, tree canopy and urban heat planning and management

Status Completed

Spatial representation type grid

Spatial reference system

Code identifying the spatial reference system 4283

Spatial resolution 48 cm

Topic category

Keyword set	
keyword value	VEGETATION-Structural HUMAN-ENVIRONMENT-Planning
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	150.16937
East bounding longitude	151.52
North bounding latitude	-34.48392
South bounding latitude	-33.46811
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	2022-03-10
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 Planning, Housing and Infrastructure
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/department-of-planning-housing-and-infrastructure
Responsible party role	pointOfContact

Lineage

Sourced from ArborCarbon Pty Ltd and includes high resolution RGB, false colour composite, height stratified vegetation cover, vegetation condition index, and surface temperature data sets acquired over the Greater Sydney Region at 16,000 ft AGL from fixed wing aircraft between 3 October 2022 and 20 February 2023.

Limitations on public access

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Planning, Housing and Infrastructure
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/department-of-planning-housing-and-infrastructure
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Metadata point of contact

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Metadata date 2024-03-25T22:28:17.340252

Metadata language