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 external organisations contracted to councils or NSW Government (subject to department assessment and approval).

Please fill out this <u>form</u> to access the dataset. Users will be required to sign a <u>Digital Data Deed Poll</u> to access the data.

NSW Department of Planning staff can access the dataset via the Information Asset Register.

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 Name: Metadata for 2022 Greater Sydney Region canopy data

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

canopy data Description:

Metadata for 2022 Greater Sydney canopy dataset split by Greater Sydney Region

local government area.

Function: download

2022 Canopy Data Methodology Name: 2022 Canopy Data Methodology Report

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

Report 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

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

Topic category

	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 referenc	e system
Code identifying the spatial reference system	4283
Spatial resolution	48 cm
l _ .	

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		
height stratified veg sets acquired over t	Carbon Pty Ltd and includes high resolution RGB, false colour composite, etation cover, vegetation condition index, and surface temperature data ne Greater Sydney Region at 16,000 ft AGL from fixed wing aircraft 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	
Responsible party role	pointOfContact	
Metadata point of contact		
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2025-01-23T03:07:32.467527

Metadata date

Metadata language