Title	Nominal Impervious Surface Map - Greater Sydney

| Abstract | Impervious surfaces were derived from two existing mapping products, producing six classes of impervious area: Buildings, Roads, Railways, Roads and Railways, Airports and Aerodromes, Stormwater Infrastructure.

Impervious Surfaces associated with buildings were derived from the Geoscape® Buildings Theme, which provides polygon representations of every building in Australia with a roof area equal to or greater than 9m2. Building polygons from the Greater Sydney Region were extracted and used to create the 'Buildings' feature.

Impervious Surfaces not associated with buildings were derived from the NSW Land Use Map 2017 (inclusive of the draft Land Use Mapping for the Sydney Metropolitan Region), which provides land use mapping for NSW at a 1:10,000 reliability scale, based on the Australian Land Use and Management Classification Code. This layer was used to generate the Roads, Railways, Roads and Railways (polygons reclassified during QC) Airports and Aerodromes, and Stormwater Infrastructure features.

Once both sets of features had been generated, they were intersected with LGA to aid in computation and provide additional map utility. Following this, any overlap between the Buildings features and the Land Use features was corrected using the Erase Function, before the layers were combined using the union function, and dissolved by LGA and feature class to provide LGA-level breakdowns of the prevalence and providence of impervious areas. |

Resource locator

| Data Quality Statement | Name: Data Quality Statement

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

Description:

Data quality statement for Nominal Impervious Surface Map - Greater Sydney

Function: download |
|---|---|
| Greater Sydney Local Government Area Impervious Surface Cover | Name: Greater Sydney Local Government Area Impervious Surface Cover

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

Description:

A shapefile of Local Government Areas (LGAs) for the Greater Sydney Region, and their associated Impervious Surface Cover fraction.

Function: download |
| Greater Sydney Planning District Impervious Surface Cover | Name: Greater Sydney Planning District Impervious Surface Cover

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

Description:

A shapefile of Planning Districts for the Greater Sydney Region, and their associated Impervious Surface Cover fraction.

Function: download |
| Greater Sydney Suburb Impervious Surface Cover | Name: Greater Sydney Suburb Impervious Surface Cover

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

Description:

A shapefile of Suburbs for the Greater Sydney Region, and their associated Impervious Surface Cover fraction.

Function: download |
| Greater Sydney Strahler 3 Subcatchment Impervious Surface Cover | Name: Greater Sydney Strahler 3 Subcatchment Impervious Surface Cover

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

Description:

A shapefile of subcatchments (defined as the drainage area for 3rd-Order Streams) within the Greater Sydney Region, and their associated Impervious Surface Cover. |

Function: download

Unique resource identifier	
Code	fadaa0b3-d129-4796-9d72-ee289fa933ac

Presentation form	Map digital

Edition	v1

Dataset language	English

Metadata standard

Name	ISO 19115
Edition	2016

Dataset URI	https://datasets.seed.nsw.gov.au/dataset/fadaa0b3-d129-4796-9d72-ee289fa933ac

Purpose	Mapping of Impervious Surfaces within the Greater Sydney Region

Status	Completed

Spatial representation

Type	vector
Geometric Object Type	surface

Spatial reference system

Code identifying the spatial reference system	4283

Equivalent scale	1:None

Topic category

Keyword set

keyword value	LAND-Cover
	HUMAN-ENVIRONMENT-Planning
	HUMAN-ENVIRONMENT-Urban-Design
	WATER-Hydrology

Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	150.05164
East bounding longitude	151.33988
North bounding latitude	-34.33667
South bounding latitude	-32.99914
NSW Place Name	Greater Sydney

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	2017-01-01
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	This product was developed using two existing mapping products: the Geoscape® Buildings Theme and the NSW Land Use Map 2017 (including draft mapping for the Metropolitan Sydney Region).
	The Geoscape® Buildings theme v1.3 was developed by the PSMA using remote sensing imagery provided by digital globe, historic aerial imagery, and existing cadastre data to map all rooftops within Australia with an area greater than 9m2. This information is provided alongside supplementary information such as the address, material and colour of every roof, whether that roof includes solar panels, and whether the address includes a swimming pool.
	The NSW Land Use Map 2017 was developed using existing cadastre mapping, council zoning data, and multiple sources of aerial and street level photography to map land uses across NSW at a 1:10,000 reliability scale. Land Uses were determined in line with the Australian Land Use and Management (ALUM) Land Use Classification based on currently available information.

Limitations on public access

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	2025-05-07T05:25:54.118402

Metadata language