Title	2022 Heat Vulnerability Index for the Greater Sydney Region
Abstract	The 2022 Heat Vulnerability Index (HVI) for Greater Sydney aims to combine information on urban heat, built form and population demographics to provide a fine-grained understanding of the spatial distribution of heat vulnerable populations.
	The Index combines indicators of heat exposure, sensitivity to heat, and adaptive capacity to produce the composite vulnerability index. The 2022 HVI dataset is built upon the methodology established in the creation of the 2016 Sydney HVI dataset (Sun et al 2018), integrating land cover, urban heat, and demographic data, aggregated to Statistical Area Level 1 (SA1) of the Australian Statistical Geography Standard (ASGS) produced by the Australian Bureau of Statistics (ABS).
	Broad comparisons can be made between the 2022 and 2016 HVI datasets, however there are multiple factors that may limit direct comparability over time. This includes variations in underlying datasets, the relative nature of the HVI, and the change in size of the study area between 2016 and 2022. When undertaking comparison it is recommended to examine the changes in the underlying datasets and the absolute values of the heat exposure, sensitivity and adaptive capacity indicators. This approach helps to explain the variations in HVI and informs effective heat mitigation strategies.
	The 2022 HVI is most useful at the SA1 scale. It is not recommended to aggregate the HVI dataset to larger scales (i.e. average HVI for a suburb or LGA). Aggregating spatially specific and individual data to geographic areas smooths out local variation, losing locational specificity and population variation. In cases where individual human exposure is of concern, this may either increase or decrease the representation of the actual exposure of a given individual, causing the neighbourhood effect averaging problem (NEAP) (Kwan 2018).
	Please refer to the methodology report for more information.
Resource loca	tor
Show on SEED	Name: Show on SEED Web Map
<u>Web Map</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Display dataset on SEED's map
	Function: download
<u>Data Quality</u>	Name: Data Quality Statement
<u>Statement</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data quality statement for 2022 Heat Vulnerability Index for the Greater Sydney Region
	Function: download
<u>2022 Heat</u>	Name: 2022 Heat Vulnerability Index Dataset Methodology Report
<u>Vulnerability</u> Index Dataset	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>Methodology</u>	Description:
<u>Report</u>	This report provides an explanation of the methodology, quality assurance and limitations of the 2022 Heat Vulnerability Index for Greater Sydney.
	Function: download
<u>2022 Heat</u>	Name: 2022 Heat Vulnerability Index for Greater Sydney Geodatabase
<u>Vulnerability</u> Index for	Protocol: WWW:DOWNLOAD-1.0-httpdownload
Greater Sydney	Description:
<u>Geodatabase</u>	This .zip folder includes the geodatabase files for the 2022 Heat Vulnerability Index for Greater Sydney. Note this file may not work for some versions of ArcMap. If using ArcMap, refer to the geopackage file.
	Function: download

2022 Heat	Name: 2022 Heat Vulnerability Index for Greater Sydney Geopackage
<u>Vulnerability</u> <u>Index for</u> <u>Greater Sydney</u> <u>Geopackage</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	This file provides the 2022 Heat Vulnerability Index for Greater Sydney in GeoPackage format.
	Function: download
<u>2022 Heat</u>	Name: 2022 Heat Vulnerability Index Tabular Data
<u>Vulnerability</u> Index Tabular	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>Data</u>	Description:
	This spreadsheet provides the tabular data for the 2022 Heat Vulnerability Index dataset.
	Function: download
<u>2022 Heat</u>	Name: 2022 Heat Vulnerability Index for Greater Sydney Metadata
<u>Vulnerability</u> Index for	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>Greater Sydney</u> Metadata	Description:
Metauata	This document provides metadata for the 2022 Heat Vulnerability Index for Greater Sydney dataset.
	Function: download
Land Surface	Name: Land Surface Temperature for Greater Sydney Summer 2022-2023
<u>Temperature</u> <u>for Greater</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>Sydney</u> Summer 2022-	Description:
<u>2023</u>	This file includes the land surface temperature data that was used to create the 2022 Heat Vulnerability Index for Greater Sydney, in .tif format.
	Function: download
Metadata for	Name: Metadata for Greater Sydney LST Summer 2022-2023
<u>Greater Sydney</u> LST Summer	Protocol: WWW:DOWNLOAD-1.0-httpdownload
<u>2022-2023</u>	Description:
	This document provides metadata for the land surface temperature data that was used to calculate the 2022 Heat Vulnerability Index for Greater Sydney.
	Function: download
Esri REST	Name: Esri REST Service
<u>Service</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	REST Service
	Function: download
Unique resourd	ce identifier
Code	08c39277-8b70-4c4d-905e-5c931c2eef08
Presentation form	Table digital
Edition	1
Dataset language	English

Metadata standard				
Name	ISO 19115			
Edition	2016			
Dataset URI	https://datasets	.seed.nsw.gov.au/dataset/08c39277-8b70-4c4d-905e-5c931c2eef08		
Purpose	Green infrastructure, tree canopy and urban heat planning and mitigation. management			
Status	Completed			
Spatial representation				
Туре	vector			
Spatial reference system				
Code identifying the spatial reference system	4283			
Spatial resolution	30 m			
Topic category	/			
Keyword set				
keyword value		CLIMATE-AND-WEATHER-Climate-change		
		CLIMATE-AND-WEATHER-Extreme-weather-events		
		CLIMATE-AND-WEATHER-Temperature		
		HUMAN-ENVIRONMENT-Housing		
		HUMAN-ENVIRONMENT-Planning		
Originating contro		HUMAN-ENVIRONMENT-Livability		
Title	Jileu vocabulary	ANZLIC Search Words		
Reference date		2008-05-16		
Geographic lo	cation			
West bounding lo	ngitude	150.16937		
East bounding lor	ngitude	151.52		
North bounding la	ititude	-34.48392		
South bounding la	atitude	-33.46811		
NSW Place Name		Greater Sydney Region		
Vertical extent information				
Minimum value		-100		
Maximum value		2228		

Coordinate r	reference s	system
Authority code		urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system		coordinate 5711
Temporal	extent	
Begin positi	on	2021-01-06
End position	1	N/A
Dataset re	eference	date
Resource	mainten	ance
Maintenance	e and upda	ate frequency Not planned
Contact info)	
Contact po	osition	Data Broker
Organisati	on name	NSW Department of Planning, Housing and Infrastructure
Telephone number		131555
Email address		data.broker@environment.nsw.gov.au
Web address		<u>https://www.nsw.gov.au/departments-and-agencies/department-of-planning-</u> housing-and-infrastructure
Responsib	le party role	e pointOfContact
Lineage	adaptiv	erall heat vulnerability index is calculated based on exposure, sensitivity, and ve capacity and uses quintiles, with 1 representing low vulnerability and 5 enting high vulnerability.
		formation regarding the methodology used to develop the dataset can be found in thodology Report.
Limitations	on public a	access
Responsit	ole party	
Contact po	osition	Data Broker
Organisati	on name	NSW Department of Planning, Housing and Infrastructure
Telephone	number	131555
Email addr	ress	data.broker@environment.nsw.gov.au
Web addre	! \$\$	<u>https://www.nsw.gov.au/departments-and-agencies/department-of-planning-housing-and-</u> infrastructure
Responsib role	le party	pointOfContact

Metadata point of contact		
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	<u>https://www.nsw.gov.au/departments-and-agencies/department-of-planning-housing-and-</u> <u>infrastructure</u>	
Responsible party role	pointOfContact	
Metadata date	2025-04-22T05:38:24.762590	
Metadata language		