Title	Fire Heterogeneity Index (FHI) 2022/23
Alternative title(s)	FHI 22/23
Abstract	Remote sensing scientists from the NSW Department of Climate Change, Energy, the Environment and Water (NSW DCCEEW) Science and Insights Division have developed a new approach to mapping the landscape patterns of high severity fire, based on NSW Fire Extent and Severity Mapping (FESM). High severity fire impacts an ecosystem by completely scorching or consuming the canopy biomass. Such impacts can be harmful to biodiversity, although some species benefit or even depend on this level of fire impact. Recent advances in remote sensing of fire and innovative computation solutions by DCCEEW Remote Sensing Scientists offer accessibility to data on fire severity and landscape patterns of fire heterogeneity across broad regions.

Resource locator

Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Fire Heterogeneity Index (FHI) 2023/24 Function: download
Factsheet	Name: Factsheet Protocol: WWW:DOWNLOAD-1.0-http--download Function: download
Raw FHI 22/23	Name: Raw FHI 22/23 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Raw FHI values for NSW Wildfires in the 2022-23 fire year Function: download
Classified FHI 22/23	Name: Classified FHI 22/23 Protocol: WWW:DOWNLOAD-1.0-http--download Description: Classified FHI product for NSW Wildfires in the 2022-23 fire year Function: download
Published journal article	Name: Published journal article Protocol: WWW:DOWNLOAD-1.0-http--download Description: Remotely Sensed Fire Heterogeneity and Biomass Recovery Predicts Empirical Biodiversity Responses Function: download

Unique resource identifier

Code	f3fb16b2-4abf-4042-9c20-f74b8e192029
Presentation form	Image digital

Edition	v1
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/f3fb16b2-4abf-4042-9c20-f74b8e192029
Purpose	fire management and research
Status	Completed
Spatial representation type	grid
Spatial reference system	
Code identifying the spatial reference system	4283
Spatial resolution	30 m
Topic category	

Keyword set

keyword value	HAZARDS-Fire ECOLOGY-Landscape ECOLOGY-Habitat VEGETATION
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	140.27344
East bounding longitude	155.08301
North bounding latitude	-36.35477
South bounding latitude	-27.99906
NSW Place Name	NSW

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	2022-01-07
End position	N/A

Dataset reference date

Resource maintenance

Maintenance and update frequency	Annually
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

The fire heterogeneity index (FHI) layers are derived from the Fire Extent and Severity Mapping products, which are generated through a machine learning framework based on Sentinel 2 or Landsat satellite imagery. The high and extreme severity areas are the basis for the calculation of the FHI.

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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Responsible party role	pointOfContact

Metadata date

2025-04-16T21:49:38.238567

Metadata language