Title Historical Fire Extent and Severity Mapping (FESM) - Blue Mountains Region **Alternative** FESM - Blue Mtns title(s) Fire severity is a metric of the loss of biomass caused by fire. In collaboration with **Abstract** the NSW Rural Fire Service, DPE Remote Sensing & Regulatory Mapping team has developed a semi-automated approach to mapping fire extent and severity through a machine learning framework based on satellite imagery. The method uses standardised classes to allow comparison of different fires across the landscape. The FESM severity classes include: unburnt, low severity (burnt understory, unburnt canopy), moderate severity (partial canopy scorch), high severity (complete canopy scorch, partial canopy consumption), extreme (full canopy consumption). Here we provide historical severity mapping for the Blue Mountains region from 1989/90 to 2015/16, which is based on Landsat satellite imagery. From 2016/17 to the current fire year, this region is covered in the statewide FESM data, which is based on Sentinel 2 satellite imagery. Resource locator Name: Data Quality Statement **Data Quality** Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Historical Fire Extent and Severity Mapping (FESM) - Blue **Mountains Region** Function: download FESM method Name: FESM method publication publication Protocol: WWW:DOWNLOAD-1.0-http--download Description: A remote sensing approach to mapping fire severity in south-eastern Australia using sentinel 2 and random forest Function: download Name: FESM method publication - comparison of satellites **FESM** method publication -Protocol: WWW:DOWNLOAD-1.0-http--download comparison of satellites Description: Comparing Fire Extent and Severity Mapping between Sentinel 2 and Landsat 8 Satellite Sensors Function: download Historical FESM -Name: Historical FESM - Blue Mtns - Wildfire - 1989-90 to 2015-16 Blue Mtns -Protocol: WWW:DOWNLOAD-1.0-http--download Wildfire - 1989-90 to 2015-16 Description: Historical FESM mapping for the Blue Mountains region of wildfires from 1989-90 to 2015-16. See the FESM statewide dataset for coverage of this region from 2016-17 onwards. Function: download Name: Historical FESM - Blue Mtns - Hazard Reductions - 1989-90 to 2015-16 Historical FESM -Blue Mtns -Protocol: WWW:DOWNLOAD-1.0-http--download Hazard Reductions -Description: 1989-90 to 2015-Historical FESM mapping for the Blue Mountains region of hazard reduction burns

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from 1989-90 to 2015-16.

Snapenie	Description:	
	This shapefile delineates the region used to intersect with the fire history in order to select the fires to process through FESM.	
	Function: download	
Unique resource	identifier	
Code	990d14ea-aa82-4e3c-bfed-aabc6634a34f	
Presentation form	Image digital	
Edition	FESMv3	
Dataset language	English	
Metadata standard		
Name	ISO 19115	
Edition	2016	
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/990d14ea-aa82-4e3c-bfed-aabc6634a34f	
Purpose	fire management planning and reporting, landscape and fire ecology research	
Status	Completed	
Spatial representation type	grid	
Spatial reference system		
Code identifying the spatial reference system	4283	
Spatial resolution	30 m	
Topic category		

Function: download

Blue Mountains Area of Interest

shapefile

Name: Blue Mountains Area of Interest shapefile

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

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	149.501953
East bounding longitude	151.358643
North bounding latitude	-34.358647
South bounding latitude	-32.330561
NSW Place Name	Blue Mountains 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	1989-01-07
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

Individual fire events are processed then mosaicked into a region wide layer for each fire year in the record.

Limitations on public access

Responsible party

Contact position Data Broker

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Telephone number 131555

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Web address https://www.nsw.gov.au/departments-and-agencies/dcceew

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Metadata date 2024-02-26T13:06:41.131641

Metadata language