

Title	Historical Fire Extent and Severity Mapping (FESM) - Statewide 2008-09
Alternative title(s)	FESM - 2008/09
Abstract	Fire severity is a metric of the loss of biomass caused by fire. In collaboration with the NSW Rural Fire Service, the department's 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 statewide historical severity mapping of fires >100ha for the 2008-09 fire year, which is based on Landsat satellite imagery (30m pixels). From 2016/17 to the current fire year is covered in the statewide FESM data, which is based on Sentinel 2 satellite imagery (10m pixels).
Resource locator	
Data Quality Statement	Name: 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 - Statewide 2008-09 - Hazard Reduction Burns	Name: FESM - Statewide 2008-09 - Hazard Reduction Burns Protocol: WWW:DOWNLOAD-1.0-http--download Function: download
FESM - Statewide 2008-09 - Wildfires	Name: FESM - Statewide 2008-09 - Wildfires Protocol: WWW:DOWNLOAD-1.0-http--download Function: download
Disclaimer	Name: Disclaimer Protocol: WWW:DOWNLOAD-1.0-http--download Function: download
Unique resource identifier	
Code	889ed214-4c88-4a5e-a5b4-88327ccf17c1
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/889ed214-4c88-4a5e-a5b4-88327cct17c1
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	

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	141
East bounding longitude	154
North bounding latitude	-37.7
South bounding latitude	-28
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	2007-01-07
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 statewide layer for each fire year in the record.		
Limitations on public access			
Responsible party			
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Metadata date	2025-02-21T01:01:41.689721		
Metadata language			