Title	Historical Fire Extent and Severity Mapping (FESM) - Royal-Heathcote Region
Alternative title(s)	FESM - Blue Mtns
Abstract	Fire severity is a metric of the loss of biomass caused by fire. In collaboration with 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 Royal-Heathcote 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 locato	זכ
Data Quality	Name: Data Quality Statement
Statement	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Data quality statement for Historical Fire Extent and Severity Mapping (FESM) - Blue Mountains Region
	Function: download
Royal Heathcote	Name: Royal Heathcote Area of Interest shapefile
<u>Area of Interest</u> shapefile	Protocol: WWW:DOWNLOAD-1.0-httpdownload
onaperne	Description:
	Shapefile for the Royal Heathcote area of interest
	Function: download
Historical FESM -	Name: Historical FESM - Royal Heathcote - Wildfire - 1989-90 to 2015-16
<u>Royal Heathcote -</u> Wildfire - 1989-90	Protocol: WWW:DOWNLOAD-1.0-httpdownload
to 2015-16	Description:
	Historical FESM mapping for the Royal Heathcote 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
Historical FESM -	Name: Historical FESM - Royal Heathcote - Hazard Reductions - 1989-90 to 2015-16
<u>Royal Heathcote -</u> Hazard	Protocol: WWW:DOWNLOAD-1.0-httpdownload
Reductions -	Description:
<u>1989-90 to 2015-</u> <u>16</u>	Historical FESM mapping for the Royal Heathcote region of hazard reduction burns from 1989-90 to 2015-16.
	Function: download
FESM method publication	Name: FESM method publication
	Protocol: WWW:DOWNLOAD-1.0-httpdownload
	Description:
	Remote Sensing of Environment Journal Article titled 'A remote sensing approach to mapping fire severity in south-eastern Australia using sentinel 2 and random forest' published in April 2020.

EESM method publication - comparison of satellites protocoi: WWW:DOWNLOAD-1.0-httpdownload Description: Remote Sensing Journal Article tile 'Comparing Fire Extent and Severity Mapping between Sentinel 2 and Landsat & Satellite Sensors' Function: downloadUnique resourceImage digitalCodefd2ba47-4079-4439-b07e-30fcc7d59426Presentation formmage digitalEditionFESMv3Dataset anguageInglishKetadata statutInglishName:SO 19115EditionSO 19115EditionSo 19115EditionGompletedPrepresentation grigongletedDataset URIInterst/datasets.seed.nsw.gov.au/dataset/d2ba4a7-4079-4439-b07e-30fcc7d59426Purposefire management planning and reporting, landscape and fire ecology researchSpatial representationgrigSpatial representationgrigObjectifying representationd283Spatial representationgo mSpatial representationgo mSpatial representationgo mCode identifying representationgo mSpatial representationgo mSpatial representationgo mSpatial representationgo mSpatial representationgo mSpatial representationgo mSpatial representationgo mSpatial representationgo mSpatial representationgo mSpatial representationgo mSpatial representation <th< th=""><th></th><th>Function: download</th></th<>		Function: download	
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Purposefire management planning and reporting, landscape and fire ecology researchStatusCompletedSpatial representation typegridSpatial reference system4283Code identifying reference system4283Spatial resolution30 m	Edition	2016	
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resolution	the spatial	4283	
Topic category		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	150.952148
East bounding longitude	151.160889
North bounding latitude	-34.184163
South bounding latitude	-34.002202
NSW Place Name	Royal-Heathcote 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		
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Metadata point of contact

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Responsible party role	pointOfContact	
Metadata date	2024-02-26T13:07:03.724948	
Metadata language		