

Title	Fire Extent and Severity Mapping (FESM) 2018/19
Alternative title(s)	FESMv3
Abstract	<p>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 sentinel 2 satellite imagery. The statewide severity map has 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).</p> <p>This dataset represents the 2018/19 fire year, including wildfires >100ha with fire start date between July 2018 and June 2019.</p>
Resource locator	<div> <div> Data Quality Statement </div> <div> <p>Name: Data Quality Statement</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Data quality statement for Fire Extent and Severity Mapping (FESM) 2018/19</p> <p>Function: download</p> </div> </div> <div> <div> Data Download Package </div> <div> <p>Name: Data Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>FESM - data in ESRI GRID format + ESRI Layer file</p> <p>Function: download</p> </div> </div> <div> <div> Data Download Package </div> <div> <p>Name: Data Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>FESM - data in IMG and TIFF format</p> <p>Function: download</p> </div> </div> <div> <div> NSW Fire Extent and Severity Mapping (FESMv3) Factsheet </div> <div> <p>Name: NSW Fire Extent and Severity Mapping (FESMv3) Factsheet</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>Metadata and method factsheet</p> <p>Function: download</p> </div> </div> <div> <div> ArcGIS REST Service </div> <div> <p>Name: ArcGIS REST Service</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>An ArcGIS Server web service represents a GIS resource—such as a map, locator, or image—that is located on an ArcGIS Server site and is made available to client applications. Depending on the layers enabled, this web service allows a user to query its features and/or visualise the dataset. This service is aimed at advanced geographical information users, and will require access to geographical information system (GIS) software such as ArcGIS/ArcMap.</p> <p>Function: download</p> </div> </div>

Unique resource identifier	
Code	c2427005-febe-4e4e-a300-2c4ddd0066be
Presentation form	mapDigital
Edition	FESMv3
Dataset language	eng
Metadata standard	
Name	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata
Version	1.1
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/c2427005-febe-4e4e-a300-2c4ddd0066be
Purpose	Bushfire response planning and analysis by land and environmental managers
Status	completed
Spatial representation type	grid
Spatial reference system	
Authority code	GDA94 Geographic (Lat\Long)
Code identifying the spatial reference system	4283
Spatial resolution	10 m
Topic category	
Keyword set	
keyword value	HAZARDS-Fire ECOLOGY-Ecosystem 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
	-36.35477

North 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	2019-01-01
End position	N/A
Dataset reference date	
Date type	publication
Effective date	2020-03-05
Date type	revision
Effective date	2021-05-03
Resource maintenance	
Maintenance and update frequency	None
Contact info	
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Full postal address	NSW Australia data.broker@environment.nsw.gov.au
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Responsible party role	pointOfContact
Lineage	<p>Layer was developed with a semi-automated approach to mapping fire extent and severity through a machine learning framework based on sentinel 2 satellite imagery. The severity maps have standardised classes to allow comparison of different fires across the landscape.</p> <p>Originally the layer was produced as an Lamberts Conic Conformal projection IMG TIFF file (but converted to a 10m Esri GRID in in line with internal EES spatial convention for storage on P and SDE).</p>
Limitations on public access	
Scope	dataset

Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
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Responsible party role	pointOfContact

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Responsible party role	distributor

Metadata date 2020-02-21

Metadata language eng