

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, DPIE 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	<p>Data Quality Statement Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Fire Extent and Severity Mapping (FESM) 2018/19 Function: download</p> <p>Data Download Package Name: Data Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: FESM - data in ESRI GRID format + ESRI Layer file Function: download</p> <p>Data Download Package Name: Data Download Package Protocol: WWW:DOWNLOAD-1.0-http--download Description: FESM - data in IMG and TIFF format Function: download</p> <p>FESMv3 Factsheet Name: FESMv3 Factsheet Protocol: WWW:DOWNLOAD-1.0-http--download Description: Metadata and method factsheet Function: download</p>
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 Environment

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

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	2019-01-01
End position	N/A
Dataset reference date	
Date type	creation
Effective date	2021-05-03
Date type	publication
Effective date	2020-03-05
Date type	revision
Effective date	2021-05-03
Resource maintenance	
Maintenance and update frequency	notPlanned
Contact info	
Organisation name	Department of Planning, Industry and Environment
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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>
Constraint set	
Use constraints	This data is provided under a Creative Commons Attribution 4.0 licence http://creativecommons.org/licenses/by/4.0 Attribute 'Department of Planning, Industry and Environment ' in publications using this data.
Limitations on public access	
Scope	dataset

Responsible party

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Responsible party role	distributor

Metadata date 2020-02-21

Metadata language eng