

<b>Title</b>	Fire Extent and Severity Mapping (FESM) 2017/18
<b>Alternative title(s)</b>	FESMv3
<b>Abstract</b>	<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 &amp; 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 2017/18 fire year, including wildfires &gt;100ha with fire start date between July 2017 and June 2018.</p>
<b>Resource locator</b>	<p><a href="#">Data Quality Statement</a> Name: Data Quality Statement  Protocol: WWW:DOWNLOAD-1.0-http--download  Description:  Data quality statement for Fire Extent and Severity Mapping (FESM) 2017/18  Function: download</p> <p><a href="#">Data Download Package</a> 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><a href="#">Data Download Package</a> Name: Data Download Package  Protocol: WWW:DOWNLOAD-1.0-http--download  Description:  FESM - data in IMG and TIFF format  Function: download</p> <p><a href="#">FESMv3 Factsheet</a> Name: FESMv3 Factsheet  Protocol: WWW:DOWNLOAD-1.0-http--download  Description:  Metadata and method factsheet  Function: download</p>
<b>Unique resource identifier</b>	
<b>Code</b>	6ff6aedc-5131-4667-ac34-e9d9aa8aeb99
<b>Presentation form</b>	mapDigital
<b>Edition</b>	FESMv3
<b>Dataset language</b>	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/6ff6aedc-5131-4667-ac34-e9d9aa8aeb99>

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
<b>Temporal extent</b>	
Begin position	2019-01-01
End position	N/A
<b>Dataset reference date</b>	
Date type	creation
Effective date	2021-05-03
Date type	publication
Effective date	2021-05-03
Date type	revision
Effective date	2021-05-03
<b>Resource maintenance</b>	
Maintenance and update frequency	notPlanned
<b>Contact info</b>	
Organisation name	Department of Planning, Industry and Environment
Full postal address	PO Box A290 Sydney South NSW 1232 Australia data.broker@environment.nsw.gov.au
Telephone number	131555
Facsimile number	02 9995 5999
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Responsible party role	pointOfContact
<b>Lineage</b>	<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>
<b>Constraint set</b>	
Use constraints	This data is provided under a Creative Commons Attribution 4.0 licence <a href="http://creativecommons.org/licenses/by/4.0">http://creativecommons.org/licenses/by/4.0</a> Attribute 'Department of Planning, Industry and Environment ' in publications using this data.
Limitations on public access	
Scope	dataset

## Responsible party

Contact position	Data Broker
Organisation name	Department of Planning, Industry and Environment
Full postal address	PO Box A290 Sydney South NSW 1232 Australia data.broker@environment.nsw.gov.au
Telephone number	131555
Facsimile number	02 9995 5999
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="http://www.planning.nsw.gov.au/">http://www.planning.nsw.gov.au/</a>
Responsible party role	pointOfContact

## Metadata point of contact

Contact position	Data Broker
Organisation name	Department of Planning, Industry and Environment
Full postal address	PO Box A290 Sydney South NSW 1232 Australia data.broker@environment.nsw.gov.au
Telephone number	131555
Facsimile number	02 9995 5999
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Responsible party role	distributor

Metadata date 2020-02-21

Metadata language eng