

<b>Title</b>	Fire Extent and Severity Mapping (FESM) 2022/23
<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, DPE 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, extent only (grass fires), 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 2022/23 fire year including all wildfires &gt;10ha with a fire start date between 1 July 2022 and 30 June 2023.</p>
<b>Resource locator</b>	
<a href="#">Data Quality Statement</a>	<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) 2021/22</p> <p>Function: download</p>
<a href="#">Published journal article</a>	<p>Name: Published journal article</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>A remote sensing approach to mapping fire severity in south-eastern Australia using sentinel 2 and random forest.</p> <p>Function: download</p>
<a href="#">Download Package</a>	<p>Name: Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>FESM GRID</p> <p>Function: download</p>
<a href="#">Download Package</a>	<p>Name: Download Package</p> <p>Protocol: WWW:DOWNLOAD-1.0-http--download</p> <p>Description:</p> <p>FESM 2022/23</p> <p>Function: download</p>
<a href="#">NSW Fire Extent and Severity Mapping (FESMv3) Factsheet</a>	<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>
<b>Unique resource identifier</b>	
<b>Code</b>	5c256ed5-5268-4b20-9564-5c9f297f01e2

<b>Presentation form</b>	Map digital
<b>Edition</b>	FESMv3
<b>Dataset language</b>	English
<b>Metadata standard</b>	
<b>Name</b>	ISO 19115
<b>Edition</b>	2016
<b>Dataset URI</b>	<a href="https://datasets.seed.nsw.gov.au/dataset/5c256ed5-5268-4b20-9564-5c9f297f01e2">https://datasets.seed.nsw.gov.au/dataset/5c256ed5-5268-4b20-9564-5c9f297f01e2</a>
<b>Purpose</b>	Bushfire response planning and analysis by land and environmental managers
<b>Status</b>	Completed
<b>Spatial representation type</b>	grid
<b>Spatial reference system</b>	
<b>Code identifying the spatial reference system</b>	4283
<b>Spatial resolution</b>	10 m
<b>Topic category</b>	

<b>Keyword set</b>	
keyword value	HAZARDS-Fire ECOLOGY-Ecosystem ECOLOGY-Habitat VEGETATION
<b>Originating controlled vocabulary</b>	
Title	ANZLIC Search Words
Reference date	2008-05-16
<b>Geographic location</b>	
West bounding longitude	140.273438
East bounding longitude	155.083008
North bounding latitude	-36.354774
South bounding latitude	-27.999058
NSW Place Name	NSW
<b>Vertical extent information</b>	
Minimum value	-100
Maximum value	2228
<b>Coordinate reference system</b>	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
<b>Temporal extent</b>	
Begin position	2021-01-07
End position	N/A
<b>Dataset reference date</b>	
<b>Resource maintenance</b>	
Maintenance and update frequency	Not planned
<b>Contact info</b>	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dccew">https://www.nsw.gov.au/departments-and-agencies/dccew</a>
Responsible party role	pointOfContact

## Lineage

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.

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).

## Limitations on public access

## Responsible party

Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact

## Metadata point of contact

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Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	<a href="mailto:data.broker@environment.nsw.gov.au">data.broker@environment.nsw.gov.au</a>
Web address	<a href="https://www.nsw.gov.au/departments-and-agencies/dcceew">https://www.nsw.gov.au/departments-and-agencies/dcceew</a>
Responsible party role	pointOfContact

**Metadata date** 2024-02-26T13:13:38.158795

**Metadata language**