Title	Fire Extent and Severity Mapping (FESM) 2019/20	
Alternative title(s)	FESMv3	
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 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).	
	This dataset represents the 2019/20 fire year including all wildfires >10ha with a fire start date between July 2019 and June 2020.	
Resource locate	or	
Show on SEED	Name: Show on SEED Web Map	
Web Map	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	Display dataset on SEED's map	
	Function: download	
Data Quality	Name: Data Quality Statement	
Statement	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	Data quality statement for Fire Extent and Severity Mapping (FESM)	
	Function: download	
NSW Fire Extent	Name: NSW Fire Extent and Severity Mapping (FESMv3) Factsheet	
<u>and Severity</u> <u>Mapping</u>	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
<u>(FESMv3)</u>	Function: download	
<u>Factsheet</u>		
<u>Data Download</u> <u>Package</u>	Name: Data Download Package	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	FESM v3 - data in ESRI GRID format + ESRI Layer file	
	Function: download	
<u>Data Download</u> <u>Package</u>	Name: Data Download Package	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	FESM v3 - data in IMG and TIFF format	
	Function: download	
ArcGIS REST Service	Name: ArcGIS REST Service	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload	
	Description:	
	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 guery 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.	
	Function: download	
Unique resource	identifier	
Code	f7eb3f73-5831-4cc9-8259-8d1f210214ac	
Presentation form	Map digital	
Edition	FESMv3	
Dataset language	English	
Metadata standa	ard	
Name	ISO 19115	
Edition	2016	
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/f7eb3f73-5831-4cc9-8259-8d1f210214ac	
Purpose	Bushfire response planning and analysis by land and environmental managers	
Status	Completed	
Spatial representation type	grid	
Spatial reference	e system	
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	140.273438
East bounding longitude	155.083008
North bounding latitude	-36.354774
South bounding latitude	-27.999058
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	
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 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 NSW Department of Climate Change, Energy, the Environment and Water Organisation name 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 Metadata point of contact 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 Metadata date 2024-09-16T23:18:20.135658

Metadata language