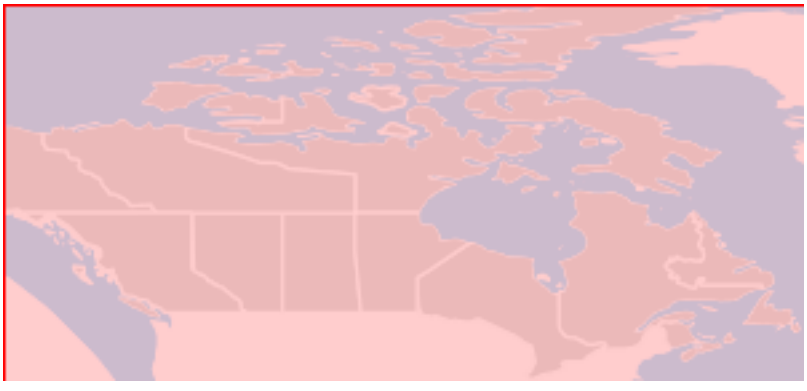
Percent grass curing across Canada - daily grids

Description

Current percentage of grass curing calculated from normalized difference vegetation index (NDVI) data. This layer is used to calculate Fire Behaviour Prediction (FBP) in the Grassland O-1 fuel type.
A value of 0 represents fully "green" grass while a value of 100 represents fully cured grass. Standing and matted cured grass are not differentiated.

Geographic Extent	SW:-141.003 41.676, NE:-52.617 83.114



Time Period	From:2013 - To:2020

Resources

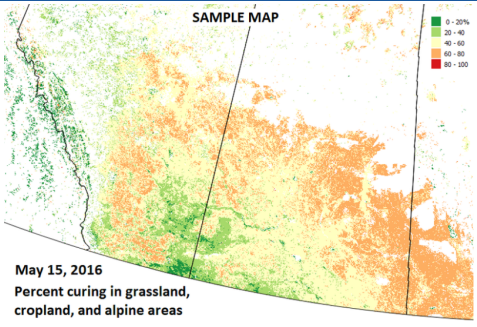
Resource Name	Resource Type	Language	Format
Percent grass curing (pc_current) - Web Map Service (WMS)	Web Service	English	WMS
Percent grass curing (pc_current) - Web Map Service (WMS)	Web Service	English, French	WMS
Percent curing grids (current day & historical archive)	Dataset	English	TIFF
Satellite NDVI data for CWFIS fire danger rating in Canada	Supporting Document	English	PDF

Additional Information

Dataset Identification

Date	2020 (Publication)
Date Type	Publication
Date	2020-01-01 (Creation)
Date Type	Creation
Status	On going
Maintenance and Update Frequency	Daily
Use Limitation	Open Government Licence - Canada (http://open.canada.ca/en/open-government-licence-canada)

Preview Image



Data Classification

GC Core Subject Thesaurus	Forest fires, Risk management
Topic category	Environment

Metadata Contact

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Protocol	http
Role	Point of contact

Data Contact

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Access Constraints	License
Use Constraints	Other restrictions
Use Constraints	License End User
Other constraints	Please note, an End-User Agreement is required for accessing these data. Please refer to this agreement for information regarding restrictions of use: http://cfs.nrcan.gc.ca/common/cwfis/End_User_Agreement_gen_EN.html
Spatial representation type	Grid
Metadata language	English
Supplemental Information	Grass curing refers to the proportion of grass stems that are cured, or dry, as opposed to green. Green (live) grass burns very slowly, but dry grass burns quickly. It is therefore necessary to have a measure of grass curing in order to predict fire behavior. Curing maps (grids) are produced daily during the fire season. They are based on MODIS NDVI obtained from the USGS data center (https://lpdaac.usgs.gov), combined with a weather-based model. The model uses recent temperature, precipitation, and relative humidity values, interpolated to each pixel (grid cell) location, to estimate the NDVI. The modelled NDVI value is then used to modify the observed value based on the number of days since observation. Curing is estimated from NDVI as follows: % curing = (1 - (NDVI - 0.2) / (MaxNDVI - 0.2)) * 100% where MaxNDVI is the 5-year historical maximum. For additional information, see -- https://cwfis.cfs.nrcan.gc.ca/downloads/greenup/Satellite_NDVI_data_for_CWFIS_fire_danger_

Distribution Information

Distribution format

Name	WMS
Version	Web Map Service

Metadata Record

File Identifier	72d29bd8-aa9e-4296-a603-0e2292fe3bf5
Hierarchy Level	Dataset
Date Stamp	2020-01-15T18:25:23

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Role	Distributor

Metadata language	English (Other language:French)
Character set	UTF8
Metadata standard name	North American Profile of ISO 19115:2003 - Geographic information - Metadata
Metadata standard version	CAN/CGSB-171.100-2009

Reference System Information

Unique resource identifier	EPSG:3978
Codespace	http://www.epsg-registry.org