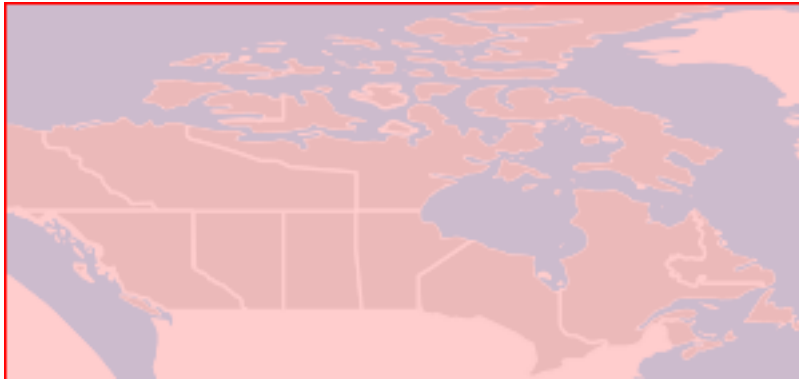


Deciduous green-up across Canada - daily grids

Description

Current green-up of the forest calculated from normalized difference vegetation index (NDVI) data. The green-up layer is in the Fire Behaviour Prediction (FBP) calculation for the aspen (D-1), boreal mixwood (M-1/M-2) and dead balsam fir mixedwood (M-3/M-4) fuel types. A value of 0 represents leafless while 1 represents green;

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



Time Period From:2013 - To:2020

Resources

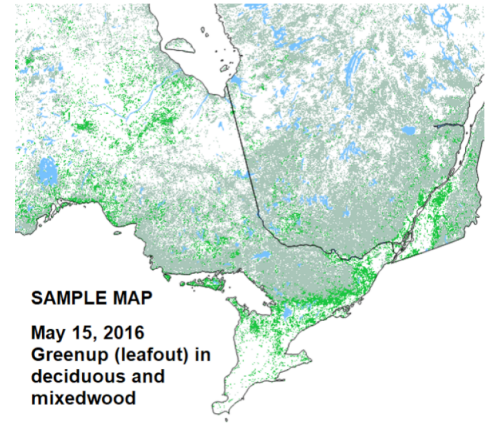
Resource Name	Resource Type	Language	Format
Current Green-up (gu_current) - Web Map Service (WMS)	Web Service	English	WMS
Current Green-up (gu_current) - Web Map Service (WMS)	Web Service	English, French	WMS
Greenup grids (current day & historical archive)	Dataset	English, French	TIFF
Satellite NDVI 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)
Access Constraints	License

Preview Image



Data Classification

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

Metadata Contact

Individual Name	John Little
Organization Name	Government of Canada; Natural Resources Canada; Canadian Forest Service / Northern Forestry Centre
Position Name	Spatial Data Analyst
Telephone Number (Voice)	825-510-1166
Delivery Point (Civic Address)	5320-122nd Street
City	Edmonton
Province/State	Alberta
Postal Code / ZIP Code	T6H 3S5
Country	Canada
Electronic Mail Address	john.little@canada.ca
Linkage	http://cwfis.cfs.nrcan.gc.ca/
Protocol	http
Role	Point of contact

Data Contact

Individual Name	Peter Englefield
Organization Name	Government of Canada; Natural Resources Canada; Canadian

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	<p>Greenup refers to the phenology of deciduous trees. When the trees are green (leafed out), they burn slowly due to the high moisture content of the leaves. When the trees are leafless, as they typically are in early spring and late fall, they burn somewhat more readily.</p> <p>Greenup 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, and is used to modify the observed value based on the number of days since observation.</p> <p>The greenup map is made by comparing the current NDVI with the maximum NDVI from the last 5 years, as suggested in Kross et al (2011). If a given pixel, or grid cell, is less than 70% of the maximum, it is mapped as leafless. If it is more than 70%, it is mapped as green (leafed out). 0 = leafless (NDVI < 70% of 5-year maximum) 1 = leafed out (NDVI >= 70% of 5-year maximum)</p> <p>Angela Kross, Richard Fernandes, Jonathan Seaquist, and Elisabeth Beaubien. 2011. The effect of the temporal resolution of NDVI data on season onset dates and trends across Canadian broadleaf forests. Remote Sensing of Environment 115: 1564-1575.</p> <p>For additional information, see -- https://cwfis.cfs.nrcan.gc.ca/downloads/greenup/Satellite_NDVI_data_for_CWFIS_fire_danger.pdf</p>

	Forest Service / Northern Forestry Centre
Position Name	Physical Scientist - GeoInformatics
Telephone Number (Voice)	825-510-1224
Delivery Point (Civic Address)	5320-122nd Street
City	Edmonton
Province/State	Alberta
Postal Code / ZIP Code	T6H 3S5
Country	Canada
Electronic Mail Address	peter.inglefield@canada.ca
Linkage	http://cwfis.cfs.nrcan.gc.ca/
Protocol	http
Role	Custodian

Distributor Contact	
Individual Name	Justin Beckers
Organization Name	Government of Canada; Natural Resources Canada; Canadian Forest Service / Northern Forestry Centre
Position Name	Physical Scientist - GeoInformatics
Telephone Number (Voice)	825-510-1160
Delivery Point (Civic Address)	5320-122nd Street
City	Edmonton
Province/State	Alberta
Postal Code / ZIP Code	T6H 3S5
Country	Canada
Electronic Mail Address	justin.beckers@canada.ca
Linkage	http://cwfis.cfs.nrcan.gc.ca/
Protocol	http
Role	pdf Distributor

Distribution Information

Distribution format

Name	WMS
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Metadata Record

File Identifier	ea4a482f-73d6-440e-9aed-d6ad7f37702c
Hierarchy Level	Dataset
Date Stamp	2020-01-14T21:59:44
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