CWFIS GeoNetwork catalogue (PROD)

Deciduous green-up

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;

- Identification
- Distribution
- Quality
- Spatial rep.
- Ref. system Reference Systems
- Content
- Portrayal
- Metadata
- Md. constraints
- Md. maintenance
- Schema info

Identification

Data identification

Citation

Date (Publication)	2026
Date (Creation)	2020-01-01

Point of contact

Government of Canada; Natural Resources Canada; Canadian Forest Service - Data Owner (Data Owner)
5320-122nd Street, Edmonton, Alberta, T6H 3S5, Canada
780-000-0000

Status	On going

Custodian

Government of Canada; Natural Resources Canada; Canadian Forest Service - Data Custodian (Data Custodian)
5320-122nd Street, Edmonton, Alberta, T6H 3S5, Canada
780-000-0000

Maintenance and Update Frequency	Daily
Government of Canada Core Subject Thesaurus	• Risk management • Forest fires
CWFIF Data Themes	• Forest and fuels characterization
CWFIF Internal Workflow	• wf-prod • wf-test • wf-sbx
Security Classification	Unclassified

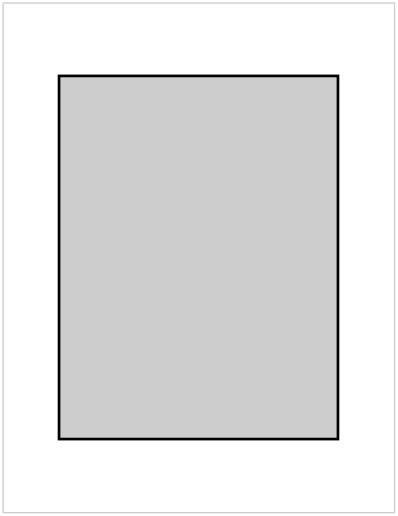
Legal constraints

Use Limitation	Open Government Licence - Canada (https://open.canada.ca/en/open-government-licence-canada)
Access Constraints	License

Spatial representation type	Grid
Language	eng
Topic category	• Environment

Begin Date	2013
End Date	2026

83.11	N	41.68	S	-52.62	E	-141.00	W



Supplemental Information	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. 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. 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) Reference: 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.

Distribution

Distribution

Distribution format	• WMS (Web Map Service)

Publisher
Government of Canada; Natural Resources Canada; Canadian Forest Service - Distributor (Distributor)
5320-122nd Street, Edmonton, Alberta, T6H 3S5, Canada
780-000-0000

Digital transfer options

Online Resource	public:greenup (OGC:WMS) API;WMS;fra
Online Resource	Deciduous green-up (HTTPS) Web Service;Web App;eng,fra
Online Resource	Deciduous green-up (HTTPS) Web Service;PNG;eng
Online Resource	Deciduous green-up (HTTPS)

	Web Service;PNG;fra

Digital transfer options

Online Resource	Greenup grids (current day & historical archive) (HTTP) Dataset;GeoTIF;eng,fra

Digital transfer options

Online Resource	Satellite NDVI data for CWFIS fire danger rating in Canada (HTTPS) Supporting Document;PDF;eng

Digital transfer options

Online Resource	public:greenup (OGC:WMS) API;WMS;eng

Ref. system Reference Systems

Reference system identifier	http://www.epsg-registry.org / EPSG:3978 /

Metadata

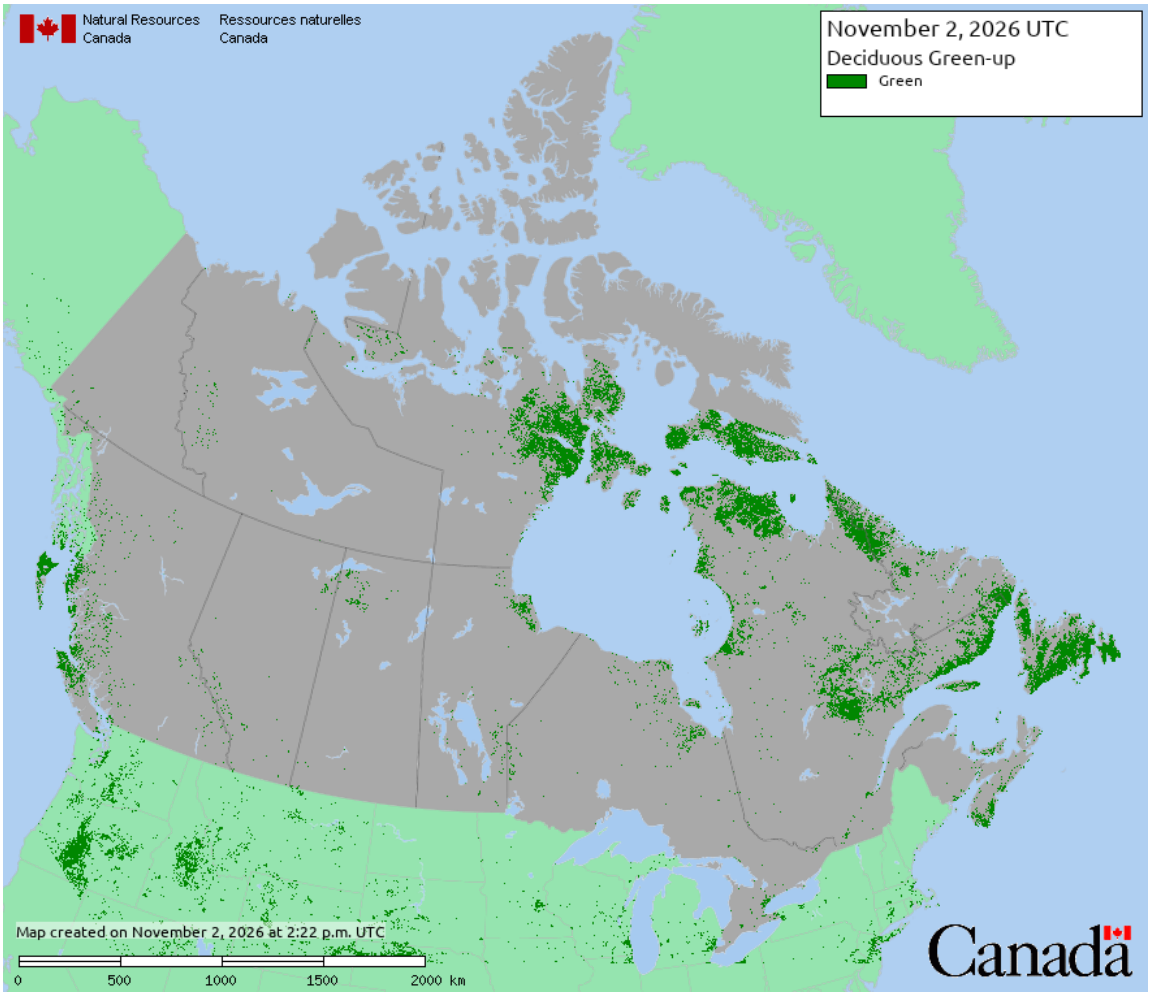
Metadata

File Identifier	f3add186-1b2b-4c0a-aa02-1cdb8771c5cb XML
Metadata language	eng; CAN
Character set	UTF8
Hierarchy Level	Dataset
Date Stamp	2026-07-16T14:31:08.964Z
Metadata standard name	North American Profile of ISO 19115:2003 - Geographic information - Metadata
Metadata standard version	CAN/CGSB-171.100-2009

Point of contact

Government of Canada; Natural Resources Canada; Canadian Forest Service - Metadata Steward (Metadata Steward)
5320-122nd Street, Edmonton, Alberta, T6H 3S5, Canada
780-000-0000

Overviews



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