Buildup Index - FWI1987

The Buildup Index is a component of the Canadian Forest Fire Weather Index (FWI) System. It is an indicator of the total amount of fuel available for combustion. Higher values are indicative of drier fuels overall and more fuel consumption during a fire. More consumption on a fire will create higher intensities and lead to more challenges to control.

The BUI is generally less than twice the value of the Duff Moisture Code. Values of 60 or higher indicate deep-burning and/or intense fire is likely.

Detailed information is found in the parent document, "Canadian Forest Fire Weather Index (FWI) System -- Daily Maps", linked above. Additional information may also appear in Supplemental Information below.

- 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)	2017-01-01

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

Other citation details	Canadian Forest Service. yyyy. Canadian Wildland Fire Information System (CWFIS), Natural Resources Canada, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta. https://cwfis.cfs.nrcan.gc.ca.
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	• Meteorology • Meteorological data • Risk management • Forest fires
CWFIF Data Themes	• Weather • Fire weather
CFWIF Evaluation Method	• Analysis • Forecast
CWFIF Model Method	• FWI 1987
	• Local Noon

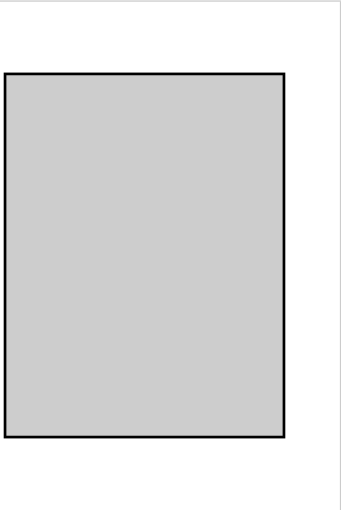
CWFIF Temporal Type **CWFIF Weather Dataset Source**	• Observations • Scribe Meteocode • NAEFS
CWFIF Internal Workflow	• wf-sbx • wf-test • wf-prod
Fire Weather	• Drought Code (DC) • Buildup Index (BUI) • Current wx and fwi • Duff Moisture Code (DMC)
Security Classification	Unclassified

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	2017

83.12	N	41.67	S	-52.62	E	-141.01	W



Supplemental Information	The Buildup Index (BUI) combines the Duff Moisture Code (DMC) and Drought Code (DC) to assess the amount of dead and down forest material available to burn. The limiting factor is the DMC -- if this layer of forest floor material from about 2 -- 10 centimetres below the surface is moist, it will generally prevent combustion from reaching organic material deeper down, and so limits the DC contribution to the BUI value. Some fire management agencies may use a different number of classes, different class boundaries, or differing descriptive interpretations of values.

Distribution

Distribution

Distribution format	• WMS (PNG, PNG8, JPEG, GIF, TIFF, TIFF8, GeoTIFF, GeoTIFF8, SVG, PDF, GeoRSS, KML, KMZ, OpenLayers) • TIFF (TIFF)

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	Buildup Index (HTTPS) Dataset;GeoTIF;eng,fra
Online Resource	Buildup Index (HTTPS) Web Service;Web App;eng,fra
Online Resource	Buildup Index (HTTPS) Web Service;PNG;eng
Online Resource	public:bui (OGC:WMS) API;WMS;eng
Online Resource	public:bui (OGC:WMS) API;WMS;fra
Online Resource	Buildup Index (HTTP) Web Service;Web App;eng,fra

Online Resource	Buildup Index (HTTPS) Web Service;PNG;fra

Digital transfer options

No information provided.

Digital transfer options

No information provided.

Digital transfer options

No information provided.

Digital transfer options

No information provided.

Digital transfer options

No information provided.

Digital transfer options

No information provided.

Quality

Data quality

Hierarchy level	Dataset

Lineage

Source	• Drought Code - FWI1987 • Duff Moisture Code - FWI1987

Ref. system Reference Systems

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

Metadata

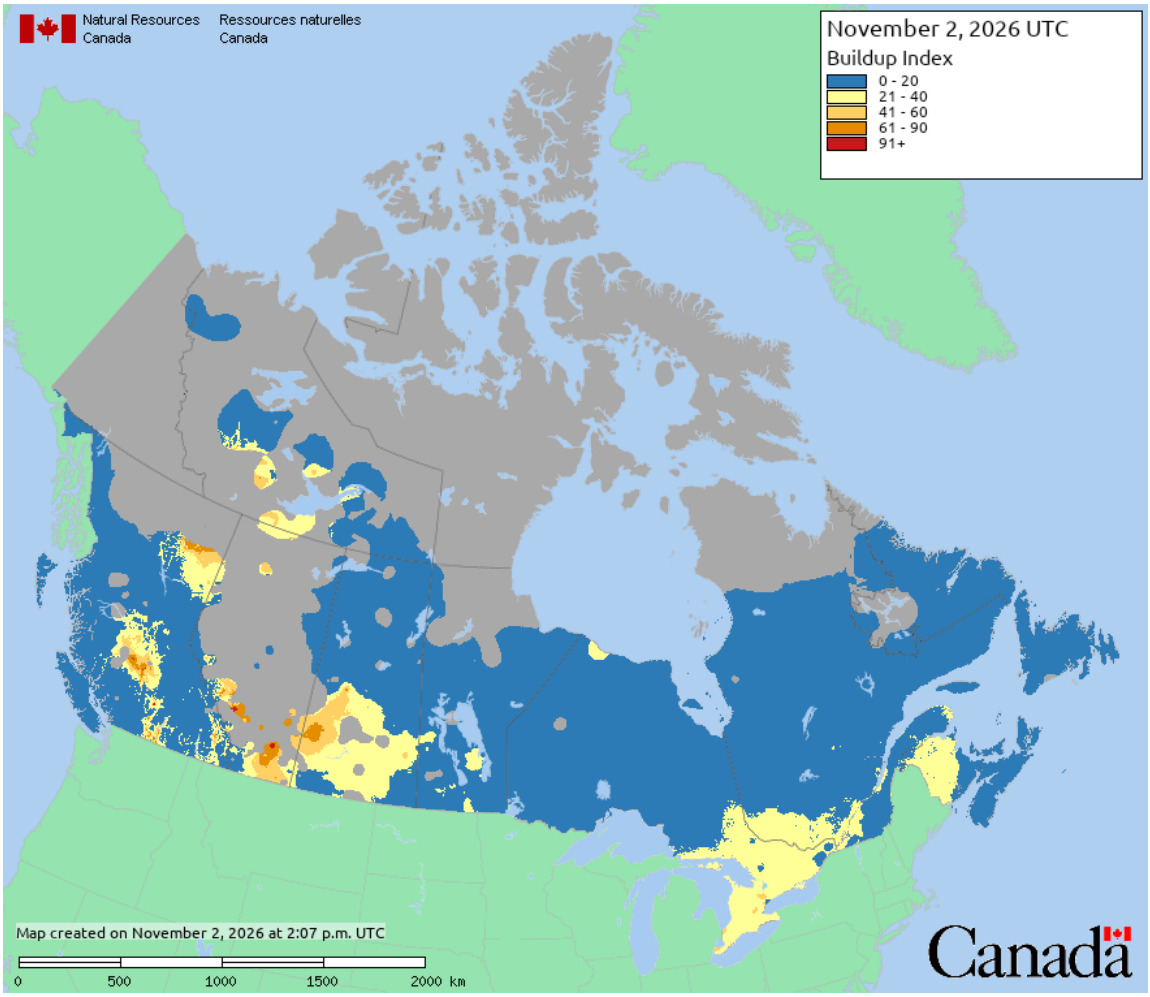
Metadata

File Identifier	8ae10a18-3194-4265-a88d-bc8a7835a1cc XML
Metadata language	eng; CAN
Character set	UTF8
Parent identifier	Canadian Forest Fire Weather Index (FWI) System - Daily Maps efec0079-273e-47d4-84d7-6940e0af3932
Hierarchy Level	Dataset
Date Stamp	2026-07-16T14:30:38.012Z
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)
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780-000-0000

Overviews



Buildup Index

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