CWFIS GeoNetwork catalogue (PROD)

Duff Moisture Code - FWI1987

The Duff Moisture Code (DMC) is a component of the Canadian Forest Fire Weather Index (FWI) System. It tracks the moisture content of the loosely compacted, decaying organic material in the first 5 to 10 cm of the forest floor lying below the surface litter layer and in above-ground woody debris typically having a diameter of about 6 centimetres. Higher values mean drier conditions. The primary operational use of this code is in assessing the potential for sustained ignitions from lightning strikes.

Lightning-caused fires have a greater chance of occurring with DMC values over 20.

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	• Risk management • Forest fires
CWFIF Data Themes	• Fire weather
CFWIF Evaluation Method	• Forecast • Analysis
CWFIF Model Method	• FWI 1987
CWFIF Temporal Type	• Solar Noon • Local Noon
CWFIF Weather Dataset Source	• Scribe Meteocode

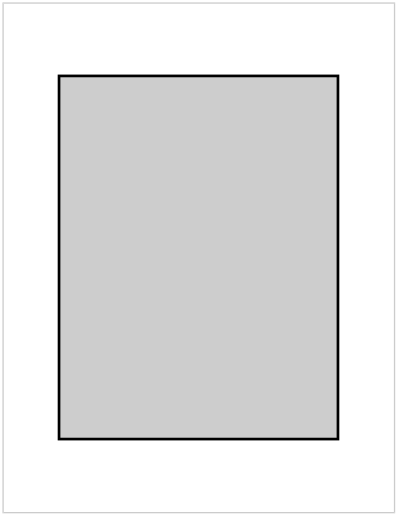
	• NAEFS • Observations
CWFIF Internal Workflow	• wf-sbx • wf-test • wf-prod
Fire Weather	• Duff Moisture Code (DMC) • Current wx and fwi
Security Classification	Unclassified

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	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	Duff Moisture Code (HTTPS) Dataset;GeoTIF;eng,fra
Online Resource	Duff Moisture Code (HTTPS) Web Service;PNG;eng
Online Resource	Duff Moisture Code (HTTP) Web Service;Web App;eng,fra
Online Resource	Duff Moisture Code (HTTP) Web Service;Web App;eng,fra
Online Resource	Duff Moisture Code (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

Online Resource	public:dmc (OGC:WMS) API;WMS;eng
Online Resource	public:dmc (OGC:WMS) API;WMS;fra

Quality

Data quality

Hierarchy level	Dataset

Lineage

Source	• Temperature - FWI1987 • Relative Humidity - FWI1987 • Precipitation - FWI1987

Ref. system Reference Systems

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

Metadata

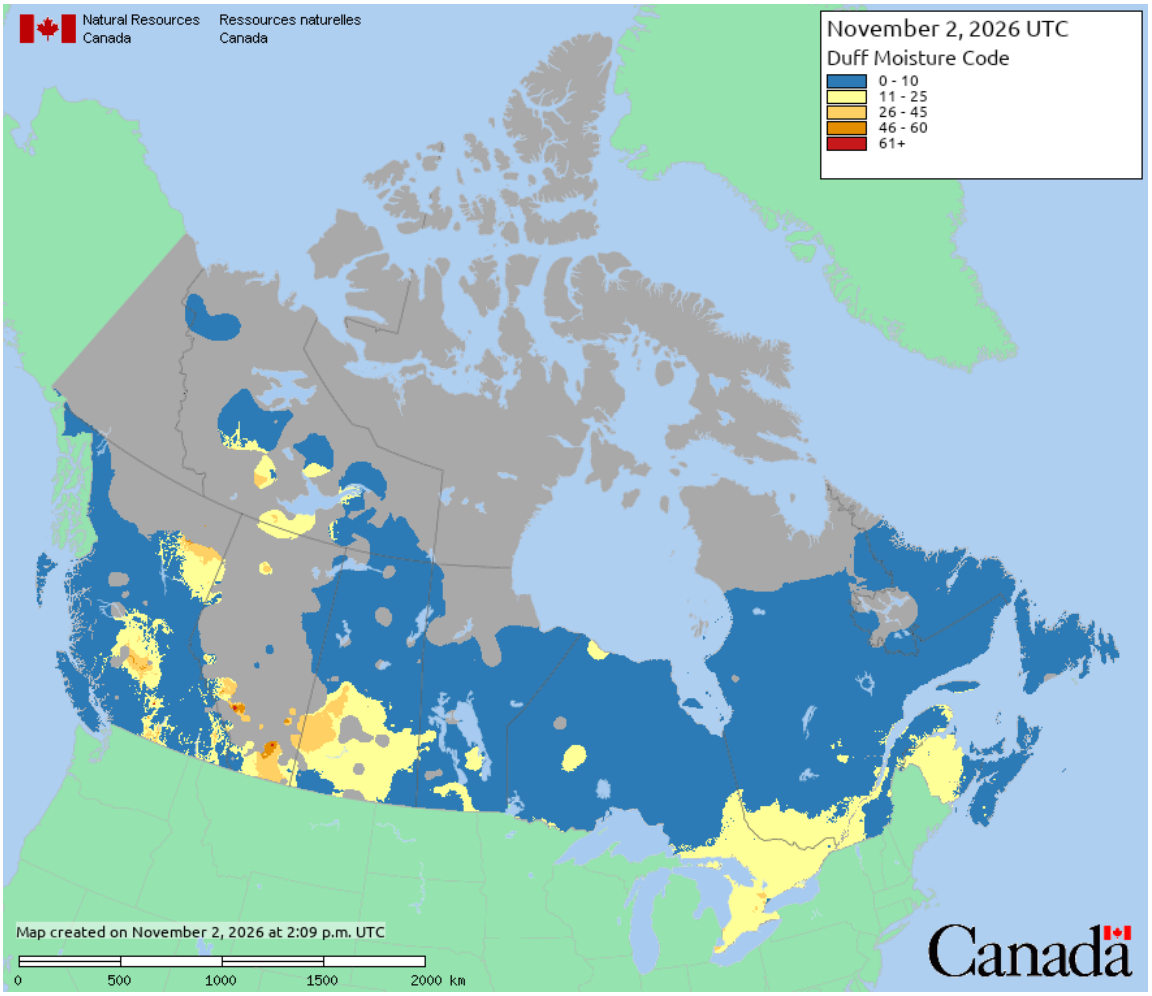
Metadata

File Identifier	c9bad7ee-d3ad-4fdf-8fff-884ead1f6faf 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	2026-07-16T14:30:48.607Z
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



Duff Moisture Code

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