Fire Danger Rating

Fire Danger is a general indicator of how easily a fire may ignite in forest vegetation, how readily that fire will spread through vegetation, and how difficult a spreading fire may be to control. It does not take into account the potential impact on man-made or natural values that may be damaged by the fire.

Note: These general fire descriptions apply to most coniferous forests. The national "Fire Danger" maps show conditions using the fire danger classification methods developed by each provincial and territorial fire management agency. Fire Danger classification may vary between agencies. These general indicators do not account for seasonal changes associated with deciduous trees or grasslands. For fuel-specific fire behaviour, consult the Fire Behaviour Prediction maps.

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)	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
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Maintenance and Update Frequency	Daily
Government of Canada Core Subject Thesaurus	• Meteorology • Meteorological data • Forest fires • Risk management
CWFIF Data Themes	• Weather • Fire weather
CWFIF Internal Workflow	• wf-prod • wf-test • wf-sbx
CWFIF Model Method	• FWI 1987
CWFIF Temporal Type	• Local Noon

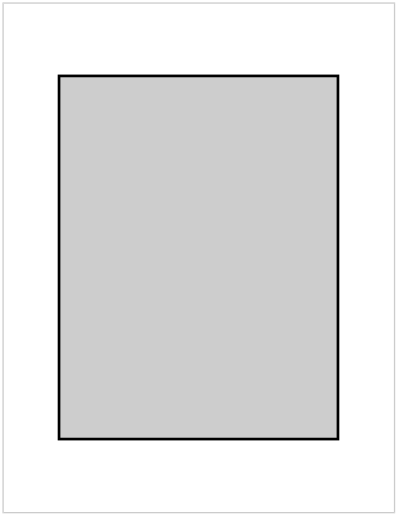
CWFIF Weather Dataset Source	• Scribe Meteocode • NAEFS • Observations
Fire Weather	• Fire Weather Index (FWI) • Temperature (TEMP) • Relative Humidity (RH) • Precipitation (PRECIP) • Wind Speed (WS)
Security Classification	Unclassified

Legal constraints

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

Spatial representation type	Vector
Language	eng
Topic category	• Environment
Begin Date	2000

83.11	N	41.68	S	-52.62	E	-141.00	W



Supplemental Information	Classes used on maps are listed below. Some fire management agencies use a different number of classes or differing interpretations of Fire Weather Index values to fit their classes: NIL - Seasonal FWI System calculations are not being done, or the region is classified as non-fuel (tundra, rock, glacier, etc). LOW - Fires, if they spread, will grow slowly and with very small flames. Active parts of a fire perimeter should be very easily contained; however, existing fires may continue to smoulder in deeper fuels in the ground. Moderate: Fires in forests will spread continuously through surface fuels with relatively small flames and should be easily contained by ground crews with water pumps and hand tools. Fires in fully cured grasslands may grow with higher spread rates and larger flames. HIGH - Fires will move through the forest as vigorously spreading surface fires with flames large enough at times to occasionally move into the conifer forest canopy. Fires will be challenging for ground crews to handle completely; the support of heavy equipment (bulldozers, tanker trucks, airtankers) will most likely be required. VERY HIGH - Fires will be faster-moving and exhibit high intensity with partial to full ignition of the conifer forest canopy. Flames in conifer forests will be large and often extend above the trees. The larger flames at the most active part of the fire will be beyond control by ground crews; a significant air attack will likely be required to effectively limit a fire's forward progression. EXTREME - Fires will spread as fast-moving, high-intensity crown fires with flames consistently above the tops of the trees. They will be very difficult to control until conditions change. Suppression actions will be limited to the sides and back of fires, with only indirect actions possible to limit a fire's forward progression.

Distribution

Distribution

Distribution format	• SHP (ESRI shapefiles geospatial vector data format) • WMS (PNG, PNG8, JPEG, GIF, TIFF, TIFF8, GeoTIFF, GeoTIFF8, SVG, PDF, GeoRSS, KML, KMZ, OpenLayers) • WFS (GML2, GML3, Shapefile, JSON, JSONP, CSV)

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

Online Resource	Fire Danger (HTTP) Dataset;GeoTIF;eng,fra
Online Resource	public:fdr (OGC:WMS)

	API;WMS;eng
Online Resource	public:fdr (OGC:WMS) API;WMS;fra
Online Resource	Fire Danger Rating (HTTP) Web Service;Web App;eng,fra
Online Resource	Fire Danger Rating (HTTP) Web Service;Web App;eng,fra
Online Resource	Fire Danger (HTTPS) Web Service;PNG;fra
Online Resource	Fire Danger Rating (HTTPS) Dataset;SHP;eng,fra

Digital transfer options

Online Resource	Fire Danger Map (HTTP) Web Service;PNG;eng

Digital transfer options

No information provided.

Digital transfer options

Online Resource	Fire Danger - Provincial/territorial classifications (HTTP) Supporting Document;PDF;eng,fra

Digital transfer options

Online Resource	Fire Danger - full metadata (HTTP) Supporting Document;XML;eng,fra

Digital transfer options

No information provided.

Quality

Data quality

Hierarchy level	Dataset
Source	• Fire Weather Index - FWI1987

Ref. system Reference Systems

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

Metadata

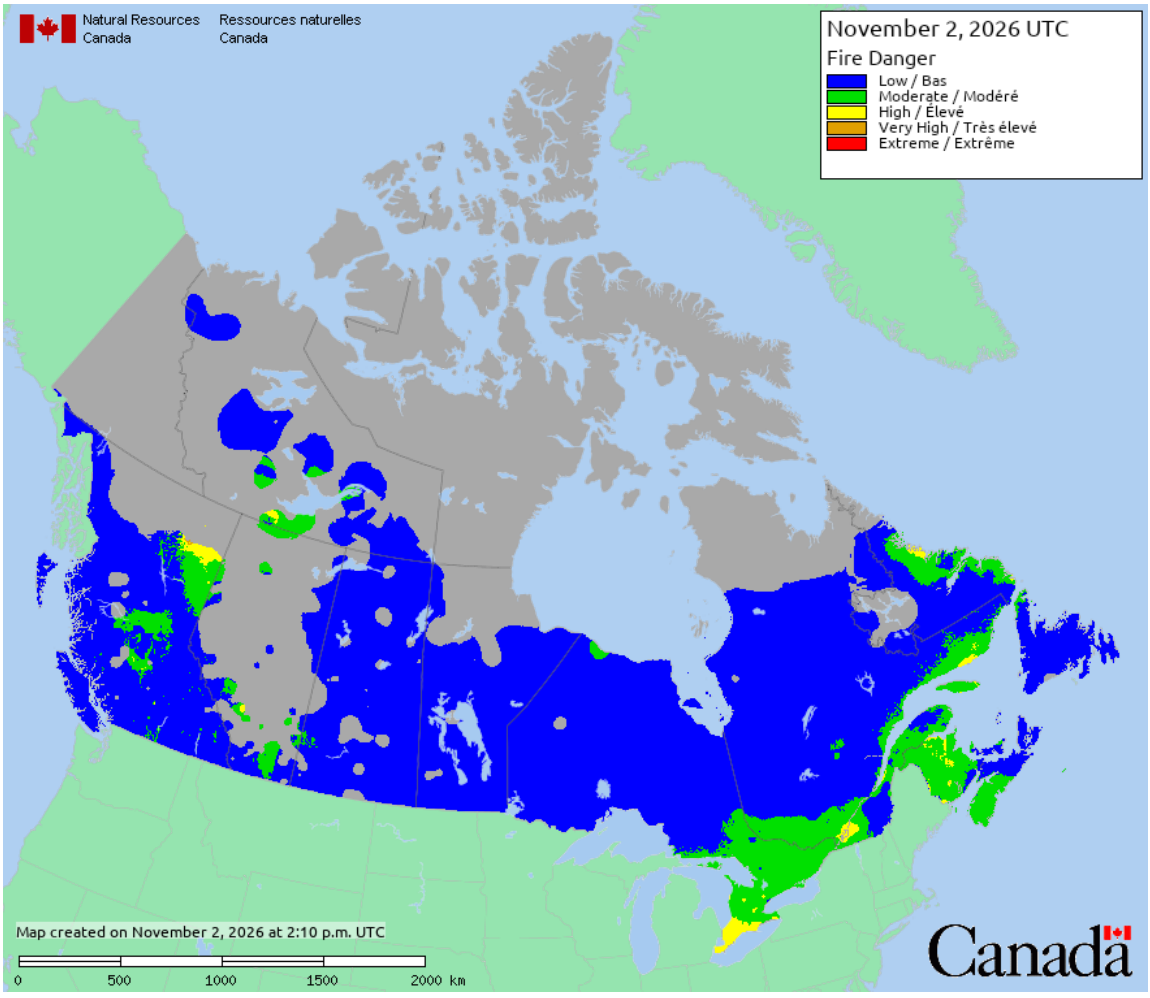
Metadata

File Identifier	b4c02c4a-0039-40c6-a0d8-f3426a340047 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	2026-07-16T14:30:40.942Z
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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Overviews



Fire Danger Rating

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