CWFIS GeoNetwork catalogue (PROD)

National Fire Database - Agency provided fire locations (point data)

The Canadian National Fire Database (CNFDB) fire point data is a collection of forest fire locations as provided by Canadian fire management agencies including provinces, territories, and Parks Canada.

The CNFDB can be used for spatial and temporal analyses of landscape-scale fire impacts.

Note that the data contained in the CNFDB are not complete nor are they without error. Not all fires have been mapped, and data accuracy varies due to different mapping techniques. This collection includes only data that has been contributed by the agencies. Data completeness and quality vary among agencies and between years.

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

Identification

Data identification

Citation

Date (Creation)	2026-05-27
Date (Publication)	2026-05-27

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	Annually
Government of Canada Core Subject Thesaurus	• Forest fires
CWFIF Data Themes	• Fire mapping and monitoring
CWFIF Internal Workflow	• wf-test • wf-prod
Security Classification	Unclassified

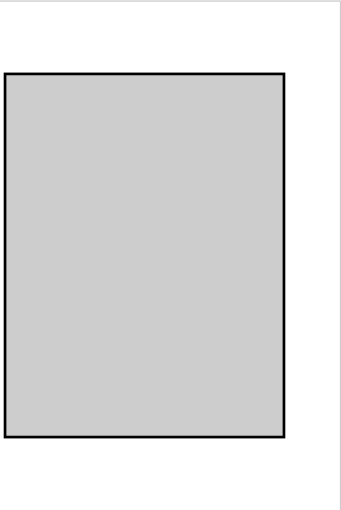
Legal constraints

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

Spatial representation type	Vector
Language	eng; CAN

Topic category	• Environment
Begin Date	1959
End Date	2025

83.11	N	41.68	S	-52.62	E	-141.00	W



Supplemental Information

The CNFDB fire point and polygon data are collected from Canadian fire management agencies including provinces, territories, and Parks Canada. To create the Canada-wide product, the data collected from each agency are projected into a common format and combined with data from other agencies; attribute fields are standardized; agency specific attribute fields are removed; and polygon areas are calculated using GIS.

Note that the data contained in the CNFDB are not complete nor are they without error. Locations are approximate. Not all fires have been mapped, and data accuracy varies due to different mapping techniques. This collection includes only data that has been contributed by the agencies. Data completeness and quality vary among agencies and between years.

For analyses for a single province or territory or for Parks Canada, we suggest you contact the appropriate agency. Links to the agency web sites can be found at http://cwfis.cfs.nrcan.gc.ca/ha/nfdb, or can be found through the Canadian Interagency Forest Fire Centre (CIFFC) website at http://www.ciffc.ca

The database is a large collaborative effort by all Canadian fire agencies. We thank the many individuals who contributed to this effort, including fire crews, field personnel, photo interpreters, pilots, digitizers, and analysts. Compilation of the Canada-wide database was partially supported by the Canadian government programs of ENFOR (ENergy from the FORest), the Program on Energy Research and Development, the Climate Change Action Fund, and Action Plan 2000.

When using these data for mapping activities and analysis, research, evaluation or display, please acknowledged the source using the following citation: Canadian Forest Service. Canadian National Fire Database – Agency Fire Data. Natural Resources Canada, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta. http://cwfis.cfs.nrcan.gc.ca/en_CA/nfdb.

The NFDB points include data for the following agencies and years:

BC 1950-2025;

AB 1959-2025;

SK 1959-2025;

MB 1959-2025;

ON 1959-2025;

QC 1959-2025;

NS 1960-2025;

NB 1980-2025;

NL 1955-2025;

YT 1946-2025;

NT 1959-2025;

PEI 2018-2025;

PC 1946-2025;

Publications:

The following papers present analyses of these data:

Hanes, C.C.; Jain, P.; Wang, W; Wang, X.; Parisien, M.-P.; Little, J.M.; Flannigan, M.D. 2025. Fire regime changes in Canada: an update. Canadian Journal of Forest Research. DOI: https://doi.org/10.1139/cjfr-2025-0209

Hanes, C.C.; Wang, X.; Jain, P.; Parisien, M.-P.; Little, J.M.; Flannigan, M.D. 2019. Fire-regime changes in Canada over the last half century. Canadian Journal of Forest Research 49: 256-269. DOI: https://doi.org/10.1139/cjfr-2018-0293.

Burton, P.J.; Parisien, M.-A.; Hicke, J.A.; Hall, R.J.; Freeburn, J.T. 2008. Large fires as agents of ecological diversity in the North American boreal forest. International Journal of Wildland Fire 17(6): 754-767.

Parisien, M.A.; Peters, V.S; Wang, Y.; Little, J.M.; Bosch, E.M.; Stocks, B.J. 2006. Spatial patterns of forest fires in Canada 1980–1999. International Journal of Wildland Fire 15:361–374.

Stocks, B.J.; Mason, J.A.; Todd, J.B.; Bosch, E.M.; Wotton, B.M.; Amiro, B.D.; Flannigan, M.D.;Hirsch, K.G.; Logan, K.A.; Martell, D.L.; Skinner, W.R. 2003. Large forest fires in Canada, 1959–1997. Journal of Geophysical Research 108, D1: FFR5, 1-12. doi:10.1029/2001 JD000484.

Amiro, B.D.; Todd, J.B.; Wotton, B.M.; Logan, K.A.; Flannigan, M.D.; Stocks, B.J.; Mason, J.A.; Martell, D.L.; Hirsch, K.G. 2001. Direct carbon emissions from Canadian forest fires, 1959 to 1999. Canadian Journal of Forest Research 31:512–525.

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)

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:NFDB_point (OGC:WMS) API;WMS;eng
Online Resource	public:NFDB_point (OGC:WMS) API;WMS;fra
Online Resource	NFDB Point (HTTP) Web Service;Web App;eng,fra
Online Resource	National Fire Database fire point data - Large fires only 200 hectares (HTTP) Web Service;PNG;eng
Online Resource	NFDB Point (HTTP) Web Service;Web App;eng,fra
Online Resource	National Fire Database fire point data - Large fires only 200 hectares (HTTPS) Web Service;PNG;fra
Online Resource	National Fire Database - All Years - CSV (HTTP) Dataset;CSV;eng,fra
Online Resource	National Fire Database - Shapefile (HTTPS) Dataset;SHP;eng,fra
Online Resource	National Fire Database - Dataset Attributes (HTTP)

	Dataset;XML;eng,fra
Online Resource	National Fire Database - All Years - Shapefile (HTTP) Dataset;SHP;eng,fra

Digital transfer options

Online Resource	Canadian Wildland Fire Information System - Fire history data explorer (HTTPS) Supporting Document;HTML;eng,fra

Digital transfer options

Online Resource	NFDB_point_shapefile_metadata.pdf (Available only in English) (HTTPS) Supporting Document;PDF;eng,fra

Digital transfer options

Online Resource	National Fire Database fire point data – Summary Stats (HTTPS) Dataset;XLS;eng,fra

Digital transfer options

No information provided.

Digital transfer options

No information provided.

Ref. system Reference Systems

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

Metadata

Metadata

File Identifier	7355c08f-1590-41cc-a751-8856afaa5959 XML
Metadata language	eng; CAN
Character set	UTF8
Hierarchy Level	Dataset
Date Stamp	2026-09-03T20:20:30.271Z
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

National Fire Database - Agency provided fire locations (point data)

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