

Abstract

A national map of Canadian FBP fuel types developed from public data sources. The resolution of the raster is 250m. Data sources include the kNN Forest Inventory (2017) and National Burn Area Composite.

Purpose

To provide a consistent national fuels grid for the project: Mapping current and future fire risk in Canada. Also to provide an updated FBP fuel type map for production of daily FBP grids, and for situational awareness of national fire potential.

Keywords

Fuels, FBP, wildland fire, national risk analysis

Supplemental Information

Data Sources

The FBP fuel types map was developed for the CWFIS using multiple sources:

- National forest attribute map using kNN and MODIS imagery
- Agriculture Canada land cover map
- The National Burn Area Composite (NBAC) was used to reassign fuel types in the burned areas
- Data collected through Canada's National Deforestation Monitoring System was used to reassign fuel types in the deforested/ land use changed areas

FBP Fuel Grid

The Fire Behaviour Prediction (FBP) component of the Canadian Forest Fire Danger Rating System (CFFDRS) uses 16 benchmark fuel types to predict fire behaviour. Each fuel type, and associated variants, are identified by the following numerical codes:

FBP Fuel Codes:

- 1 - C1
- 2 - C2
- 3 - C3
- 4 - C4
- 5 - C5
- 7 - C7
- 11 - D1
- 12 - D2
- 13 - D1/2
- 31 - O1
- 101 - Non-fuel
- 102 - Water
- 106 - Urban or built- up area

425 - M1 C25
525 - M2 C25
625 - M1/2 C25
635 - M1/2 C35
650 - M1/2 C50
665 - M1/2 C65

**20191114 update includes adjustments to low quality Balsam Fir stand classifications.*

References

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Canadian Forest Service. 2016. *National Fire Database – Agency FireData*. Natural Resources Canada, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta. <http://cwfis.cfs.nrcan.gc.ca/ha/nfdb>

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Supporting Documentation

- [Fuel Layer Decision Rules](#)
- [Fuel Layer Base Layers](#)

Access to data

The **Canadian Forest FBP Fuel Types (CanFG)** is available as a downloadable grid (GeoTiff) or as a web service (WMS/WCS):

- [Canadian Forest FBP Fuel Types \(GeoTiff\)](#)
- [Canadian Forest FBP Fuel Types \(wms/wcs\)](#)

Contact

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