

National Burned Area Composite

Description

The National Burned Area Composite (NBAC) is a GIS database and system that calculates the area of forest burned on a national scale for each year since 1986. The data are used to help estimate carbon emissions in Canada. The burned area is determined by evaluating a number of available sources of data, which use different techniques to map any given fire. The system chooses the best available source of data for each burned area and builds a national composite picture.

The NBAC is part of the Fire Monitoring, Accounting and Reporting System (FireMARS), jointly developed by the Canada Centre for Mapping and Earth Observation (formerly the Canada Centre for Remote Sensing) of Natural Resources Canada and the Canadian Forest Service. Initially, FireMARS was developed with funding support from the Canadian Space Agency Government Related Initiatives Program through a collaboration of those in fire research, forest carbon accounting and remote sensing.

Data are provided for NBAC from:

- · Natural Resources Canada, and
- Provincial, Territorial, and Parks Canada agencies.

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

Geographic Extent SW:-141.003 41.676, NE:-52.617

83.114

Time Period From: 1986 - To: 2022

Data Resources

Name	Resource Type	Language	Format
National Burned Area Composite	Dataset	English	SHP
Canadian Wildland Fire Information System	Supporting Document	English, French	HTML
nbac 2022 r12 20230630 m	வீவும்று ting Document	English	PDF
National Burned Area Composite	Web Service	English	WMS
README_updates.txt	Supporting Document	English	TXT
National Burned Area Composite	Web Service	French	WMS

Additional Information

Dataset Identification	
Date	2022-06-30 (Publication)
Date	2022-06-30 (Creation)
Status	On going
Maintenance and Update Frequency	Annually

Data Classification

GC Core Subject Forest fires

Thesaurus

Topic category Environment

Metadata Contac	t
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Use Limitation Open Government Licence - Canada

(http://open.canada.ca/en/open-government-licence-canada)

Access Constraints

License

Use Constraints

Other restrictions

Use Constraints

License End User

Other constraints

When using these data for mapping activities and analysis, research, evaluation or display, please acknowledged the source using the following citation:

Canadian Forest Service. National Burned Area Composite (NBAC). Natural Resources Canada, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta. https:// cwfis.cfs.nrcan.gc.ca.

Spatial representation type

Vector

Metadata language

English

Supplemental Information

NBAC is a national product compiled annually since 1986 by the FireMARS system which tracks forest fires for annual estimates of carbon emissions and to help identify National Forest Inventory plots that may have been disturbed by fire. See the FireMARS website at (http://www.nrcan.gc.ca/forests/fire/13159) and carbon accounting - disturbance monitoring website (http://www.nrcan.gc.ca/forests/climate-change/13109) for additional information.

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Canadian Forest Service. National Burned Area Composite (NBAC). Natural Resources Canada, Canadian Forest Service, Northern Forestry Centre, Edmonton, Alberta. https:// cwfis.cfs.nrcan.gc.ca.

References:

Skakun, R.; Castilla, G.; Metsaranta, J.; Whitman, E.; Rodrigue, S.; Little, J.; Groenewegen, K.; Coyle, M. (2022). Extending the National Burned Area Composite Time Series of Wildfires in Canada. Remote Sensing, 14, 3050. DOI: https://doi.org/10.3390/rs14133050

Skakun, R.S.; Whitman, E.; Little, J.M.; and Parisien, M.-A. (2021). Area burned adjustments to historical wildland fires in Canada. Environmental Research Electronic Mail

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Hall, R.J.; Skakun, R.S.; Metsaranta, J.M.; Landry, R.; Fraser, R.H.; Raymond, D.A.; Gartrell, J.M.; Decker, V. and Little, J.M. (2020). Generating annual estimates of forest fire disturbance in Canada: the National Burned Area Composite. International Journal of Wildland Fire. 10.1071/WF19201. DOI: https://doi.org/10.1071/WF19201

Distribution Information

Distribution format

Name SHP

Version ESRI shapefiles geospatial vector data

format

Distribution format

Name WMS

Version PNG, PNG8, JPEG, GIF, TIFF, TIFF8,

GeoTIFF, GeoTIFF8, SVG, PDF, GeoRSS, KML, KMZ, OpenLayers

Distribution format

Name WFS

Version GML2, GML3, Shapefile, JSON,

JSONP, CSV

Metadata Record

File Identifier 55dc69f3-18e1-4516-9ce9-133a36d06a93

Hierarchy Level Dataset

Date Stamp 2023-07-06T16:14:19

Metadata language English (Other language:French)

Character set UTF8

Metadata standard name North American Profile of ISO

19115:2003 - Geographic information -

Metadata

Metadata standard version CAN/CGSB-171.100-2009

Reference System Information

Unique resource identifier EPSG:3978

Codespace http://www.epsg-registry.org