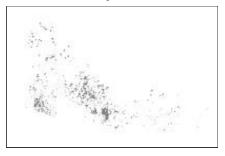# nbac_2021_r9_20220624
Shapefile

Tags

wildland fires, wildfires, forest fires, burned area, fire history, satellite remote sensing, natural disturbance, feux de forêt, incendies de forêt, superficie brûlée, historique des feux, télédétection satellitaire, perturbation naturelle, Canada

Summary

The NBAC is a national, geospatial burned area product compiled annually since 1986 for annual estimates of carbon emissions. A rule-based decision process is used to select the best burned area representation from a number of available data sources. // La CNSB est un outil de cartographie nationale et géospatiale des superficies brûlées compilé chaque année depuis 1986 afin d'en calculer annuellement les émissions de carbone. Un processus décisionnel axé sur les règles permet de sélectionner les meilleures sources de données disponibles pour représenter une situation de feu donnée.

Description

The National Burned Area Composite (NBAC) is a product created as a component of the Fire Monitoring, Accounting and Reporting System (FireMARS), jointly developed by the Canada Centre for Mapping and Earth Observation (http://www.nrcan.gc.ca/earth-sciences/geomatics/satellite-imagery-air-photos/applications-development/10822) (formerly the Canada Centre for Remote Sensing) of Natural Resources Canadaand the Canadian Forest Service. FireMARS was initially developed with funding support from the Canadian Space Agency Government Related Initiatives Program (http://www4.asc-csa.gc.ca/auot-eoau/eng/grip/about.aspx) through a collaboration of those in fire research (http://www.nrcan.gc.ca/forests/fire/13143), forest carbon accounting (http://www.nrcan.gc.ca/forests/climate-change/13087) and remote sensing.

NBAC is a national product compiled annually since 1986by 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.

Data from two types of providers is used to generate NBAC:

1) Natural Resources Canada, and

2) Provincial, Territorial, and Parks Canada agencies.

A rule-based decision process is used to select the best data source for each fire event based on factors such as how well the burn polygon follows the shape of the fire as observed on post-burn satellite imagery, the data source itself, and what methods were used to delineate the burn. Not all fires are mapped and in areas where there was not a lot of fire activity to warrant satellite image mapping, agency data is used.

===================================

La Composite nationale des superficies brûlées (CNSB) fait partie du système FireMARS (Fire Monitoring, Accounting and Reporting System) mis au point par le Centre canadien de cartographie et d'observation de la Terre (http://www.rncan.gc.ca/sciences-terre/geomatique/imagerie-satellitaire-photos-aeriennes/developpement-applications/10972) (anciennement le Centre canadien de télédétection)et le Service canadien des forêts. Le système FireMARS a d'abord été rendu possible grâce à un soutien financier du Programme d'initiatives gouvernementales en observation de la Terre (IGOT) de l'Agence spatiale canadienne (http://www4.asc-csa.gc.ca/auot-eoau/fra/igot//About%20Grip.aspx) en collaboration avec les initiatives de recherche sur les feux (http://www.rncan.gc.ca/forets/feux/13144), de comptabilisation du carbone forestier (http://www.rncan.gc.ca/forets/changements-climatiques/13088) et de télédétection.

CNSB est un produit national compilé annuellement depuis 1986 par le système FireMARS (Fire Monitoring, Accounting and Reporting System), qui fait le suivi des incendies de forêt afin d'estimer les émissions annuelles de carbone et de déterminer les parcelles de l'Inventaire forestier national (IFN) qui peuvent avoir été perturbées par les incendies.Pour obtenir plus de renseignements, consulter la page Web sur le système FireMARS (http://www.rncan.gc.ca/forets/feux/13160) et la comptabilisation du carbone forestier - surveillance des perturbations (http://www.rncan.gc.ca/forets/changements-climatiques/13110).

Pour générer la CNSB, on utilise des données provenant de deux types de sources :

1) Ressources naturelles Canada;

2) les organismes provinciaux et territoriaux et Parcs Canada.

Un processus de décision basé sur des règles est utilisé dans la sélection desmeilleures sources de données pour chaque incendie, en fonction de divers facteurs : dans quelle mesure le polygone des surfaces brûlées correspond-elle à la forme de l'incendie observée sur l'imagerie satellitaire post-incendie, la source de données elle-même, ainsi que les méthodes qui ont été utilisées pour la délimitation de l'aire brûlée. Tous les incendies ne sont pas cartographiés; dans les régions où il n'y a pas eu beaucoup d'incendies pour justifier le recours à la cartographie par imagerie satellitaire, les données fournies par les organismes ont été utilisées.

Credits
There are no credits for this item.

Use limitations
There are no access and use limitations for this item.

Extent
West	-148.877675	**East**	-37.221845
North	73.051719	**South**	41.730159

Scale Range
Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE   boundaries, environment, biota

* CONTENT TYPE   Downloadable Data

PLACE KEYWORDS   Canada

THEME KEYWORDS   wildland fires

THEME KEYWORDS   wildfires

THEME KEYWORDS   forest fires

THEME KEYWORDS   burned area

THEME KEYWORDS   fire history

THEME KEYWORDS   satellite remote sensing

THEME KEYWORDS   natural disturbance

THEME KEYWORDS   feux de forêt

THESAURUS'S LANGUAGE   French (CANADA)
THEME KEYWORDS   incendies de forêt

THESAURUS'S LANGUAGE   French (CANADA)
THEME KEYWORDS   superficie brûlée

THESAURUS'S LANGUAGE   French (CANADA)
THEME KEYWORDS   historique des feux

THESAURUS'S LANGUAGE   French (CANADA)
THEME KEYWORDS   télédétection satellitaire

THESAURUS'S LANGUAGE   French (CANADA)
THEME KEYWORDS   perturbation naturelle

THESAURUS'S LANGUAGE   French (CANADA)
Hide Topics and Keywords ▲

Citation ▶

* TITLE   nbac_2021_r9_20220624
CREATION DATE   2014-09-09   14:25:00

PRESENTATION FORMATS   * digital map
FGDC GEOSPATIAL PRESENTATION FORMAT   map

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY
   INDIVIDUAL'S NAME   Rob Skakun
   ORGANIZATION'S NAME   Government of Canada; Natural Resources Canada; Canadian Forest
   Service; Northern Forestry Centre; Canadian Wildland Fire Information System (CWFIS) Group
   CONTACT'S ROLE   point of contact

Hide Citation Contacts ▲

Resource Details ▶

DATASET LANGUAGES   ***** English (CANADA)
DATASET CHARACTER SET   utf8 - 8 bit UCS Transfer Format

STATUS   on-going
SPATIAL REPRESENTATION TYPE   ***** vector

GRAPHIC OVERVIEW
  FILE NAME   http://cfs.nrcan.gc.ca/common/nbac/canada-nbac-800-en.png
  FILE DESCRIPTION   Burned areas mapped annually from NBAC
  FILE TYPE   PNG

GRAPHIC OVERVIEW
  FILE NAME   http://cfs.nrcan.gc.ca/common/nbac/canada-nbac-800-fr.png
  FILE DESCRIPTION   Données de la CNSB montrant les régions affectées par les feux
  FILE TYPE   png

* PROCESSING ENVIRONMENT   Version 6.2 (Build 9200) ; Esri ArcGIS 10.5.0.6491

ARCGIS ITEM PROPERTIES
  * NAME   nbac_2021_r9_20220624
  * SIZE   39.005
  * LOCATION   file://\\S-EDM-
Berg\WorkGroups\EDM\MAFiMS\datamarts\common\burnarea\nbac\NIR_2023
\delivery\nbac_2021_r9_20220624.shp
    * ACCESS PROTOCOL   Local Area Network

Hide Resource Details ▲

Extents ▶

EXTENT
  TEMPORAL EXTENT
    BEGINNING DATE   2021-01-01   00:00:00
    ENDING DATE   2021-12-31   00:00:00

EXTENT
  GEOGRAPHIC EXTENT
    BOUNDING RECTANGLE
      EXTENT TYPE   Extent used for searching
      * WEST LONGITUDE   -148.877675
      * EAST LONGITUDE   -37.221845
      * NORTH LATITUDE   73.051719
      * SOUTH LATITUDE   41.730159
      * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
  * WEST LONGITUDE   -2302090.645517
  * EAST LONGITUDE   2608216.473112
  * SOUTH LATITUDE   -159919.194547
  * NORTH LATITUDE   2619782.539000
  * EXTENT CONTAINS THE RESOURCE   Yes

Hide Extents ▲

Resource Constraints ►

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ACCESS CONSTRAINTS   license
USE CONSTRAINTS   license

Hide Resource Constraints ▲

Spatial Reference ►

ARCGIS COORDINATE SYSTEM
* TYPE   Projected
* GEOGRAPHIC COORDINATE REFERENCE   GCS_North_American_1983
* PROJECTION   Canada_Lambert_Conformal_Conic
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
X ORIGIN   -34655800
Y ORIGIN   -30001600
XY SCALE   129952262.74881823
Z ORIGIN   -100000
Z SCALE   10000
M ORIGIN   -100000
M SCALE   10000
XY TOLERANCE   0.001
Z TOLERANCE   0.001
M TOLERANCE   0.001
HIGH PRECISION   true
WELL-KNOWN TEXT   PROJCS["Canada_Lambert_Conformal_Conic",GEOGCS
["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID
["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-95.0],PARAMETER["Standard_Parallel_1",49.0],PARAMETER
["Standard_Parallel_2",77.0],PARAMETER["Latitude_Of_Origin",49.0],UNIT["Meter",1.0]]

REFERENCE SYSTEM IDENTIFIER
DIMENSION   horizontal
VALUE   EPSG::3978
CODESPACE   http://www.epsg-registry.org
VERSION   8.4

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR ►
  * LEVEL OF TOPOLOGY FOR THIS DATASET   geometry only

  GEOMETRIC OBJECTS
    FEATURE CLASS NAME   nbac_2021_r9_20220624
    * OBJECT TYPE   composite
    * OBJECT COUNT   1753

  Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES   ►
  FEATURE CLASS NAME   nbac_2021_r9_20220624
    * FEATURE TYPE   Simple
    * GEOMETRY TYPE   Polygon
    * HAS TOPOLOGY   FALSE
    * FEATURE COUNT   1753
    * SPATIAL INDEX   FALSE
    * LINEAR REFERENCING   FALSE

  Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ►

SCOPE OF QUALITY INFORMATION   ►
  RESOURCE LEVEL   dataset

  Hide Scope of quality information ▲

Hide Data Quality ▲

Lineage ►

LINEAGE STATEMENT
  August 10, 2021
  version 20210810
  - updated Parks Canada data for years 1986 to 2017 using CNFDB v20201005
  - applied an adjusted area burned to Agency conventional perimeters for all years in
  ADH_HA (where ADJ_FLAG = 2)

  September 21 2020
  - updated MAFiMS fire polygons for nfireid's 1448, 1115, 1136 for year 1989 (version
  20200921)
  - corrected YT fire cause for years 1986 to 2003 (version 20200921)

  July 03, 2020
  2018 - AB agency updates ingested (version 20200703)
  2015 - Replaced MAFiMS with updated PC agency data in WBNP

(nfireid404,337,262,344,328,322,327,287,302,265,286,240,249,256,250,245,271,273), (version 20200703)
2004 - Corrected SDATE and EDATE hotspot dates (version 20200703)

November 29, 2019
1990, 1991, 1995, 1996, 1997, 2000, 2006, 2007 (version 20191129)
- C2C fire polygon nfireid 1 in year 1990 replaced with agency polygon
- C2C fire polygon nfireid 14 in year 1991 replaced with agency polygon
- C2C fire polygon nfireid 1108 in year 1995 replaced with agency polygon
- C2C fire polygon nfireid 182 in year 1996 replaced with agency polygon
- C2C fire polygon nfireid 462 in year 1997 replaced with agency polygon
- Agency fire polygon nfireid 1011 in year 2000 added
- C2C fire polygon nfireid 671 in year 2006 replaced with agency polygon
- C2C fire polygon nfireid 386 in year 2007 replaced with agency polygon

September 19, 2019
1986 - 2018 NBAC (version 20190919)
- C2C (BASRC 4) fire polygons added to years 1986 to 2013
- Ruleset 9 (r9) includes best-available polygons from MAFiMS, C2C, Agency, and HANDS
- Attribute modifications include: YEAR (new); BASRC (includes value 4); SDATE EDATE AFSDATE AFEDATE and CAPDATE (change datetime to date); POLY_HA (was TOTAREA); ADJ_HA (was UTOTAREA); ADJ_FLAG (was AREAMODT); AGENCY (new); VERSION (was NBACVERS); COMMENTS (was COMM); SALVAGE (removed); PB_HARV (removed); AREAMODA (removed); AREAMODB (removed); AREAMODV (removed); CDATE (removed, contained in version)
- NBAC burn polygons subdvided by provincial, territorial, and national parks boundaries
- New MAFiMS polygons for years 1986 to 2018

June 26, 2019
2018 NBAC (version 20190626_1020)

August 29, 2018
2003 NBAC (version 20180829_1112)
- Agency fire polygon nfireid 5 in year 2003 (location NWT) removed. Mapped with MAFiMS nfireid 3
1993 NBAC (version 20180829_1113)
- Agency fire polygon nfireid 255 in year 1993 (location Onatrio) changed to nfireid 248
1992 NBAC (version 20180829_1113)
- Agency fire polygon nfireid 204 in year 1992 (location Ontario) changed to nfireid 215
1991 NBAC (version 20180829_1113)
- Agency fire polygon nfireid 373 in year 1991 (location Ontario) changed to nfireid 383
- MAFiMS fire polygon nfireid 382 in year 1991 removed. Fire burned in 1990.
1990 NBAC (version 20180829_1114)
- Agency fire polygon nfireid 321 in year 1990 (location Ontario) changed to nfireid 342
1989 NBAC (version 20180829_1114)
- Agency fire polygon nfireid 1058 in year 1989 (location Sask) removed. Mapped with MAFiMS nfireid 917
1987 NBAC (version 20180829_1115)
- Agency fire polygon nfireid 378 in year 1987 (location Ontario) changed to nfireid 397

July 24, 2018
2017 NBAC (version 20180725_1603)
2016 NBAC (version 20180725_1602)
- Repair Geometry tool applied (reduced burned area by 33 ha from version 20180420_1321)
2015 NBAC (version 20180724_0843)
- Removed HANDS fire polygon nfireid 75 (No fire occured at this location)
2012 NBAC (version 20180724_0849)

- Added Parks Canada fire polygon nfireid 106
- Replaced HANDS fire polygon nfireid 95 and 100 with Parks Canada fire polygons
2009 NBAC (version 20180724_0854)
- Added Parks Canada fire polygon nfireid 36 and 2365
- Replaced HANDS fire polygon nfireid 45 and 46 with Parks Canada fire polygons
2006 NBAC (version 20180724_0857)
- Added NWT fire polygon nfireid 64
2005 NBAC (version 20180724_0858)
- Added NWT fire polygon nfireid 1094
2004 NBAC (version 20180724_0859)
- Added NWT fire polygon nfireid 190
- Replaced HANDS fire polygon nfireid 150, 191, 194, and 171 with NWT fire polygons
1986-2003 NBAC (preliminary version 20180724)
- NFDB Provincial and Territorial Government and Parks Canada agency data
- HANDS source for 1995-2003 only
- MAFiMS source for NWT only, all years

April 24, 2018
2016 NBAC (version 20180420_1321)
- NFIREID 255 Agency aerial photography delineation replaces MAFiMS

January 8, 2018
2012 NBAC updates (new version is 20180103_0935)
- Updates to MAFiMS polygon NFIRED's 252, 1067, 256, 260, 253, 258, 304, 317, 332, 345, 340, 367

September 18, 2017
2015 NBAC (version 20170707_1448):
- 1 new fire event from HANDS mapped in Newfoundland and Labrador
- 16 fire events from MAFiMS remapped in Saskatchewan

July 12, 2017
2016 NBAC (version 20170707_1144):
- NFIREID 255 was created by integrating aerial photo delineated and MAFiMS polygons over the burned area. This fire event will be updated in NBAC upon receiving a revised burned area polygon from the Gov't of Alberta.

December 22, 2016
2004 to 2015 NBAC updates (version 10161128):
- Replaced Northwest Territories agency fires with Landsat data sources and the MAFiMS mapping method for years 2004 to 2013.
- Ingested all agency fire polygons less than 10 ha for years 2004 to current (see September 9, 2016 below).
- Replaced Quebec and Parks Canada agency data with updated fire polygons and attribution for years 2004 to 2014.
- Corrections to year of burn in the agency fire attribution where found (4 fire events in 2005 and 2010 from British Columbia, Alberta, Saskatchewan, Quebec).
- Removed duplicate polygons from agency data located over the same fire event where found (6 fire events in 2006, 2010, 2013, 2014 from Northwest Territories, British Columbia, Saskatchewan, Manitoba).
- Clipped agency polygon boundaries to correct year of burn (14 fire events in 2006, 2008, 2010 to 2015 from Yukon, British Columbia, Alberta, Saskatchewan, Manitoba).

September 9, 2016
2015 NBAC (version 20160914_1144):
- removed the 10 ha minimum size filter for agency burns

December 30, 2015
2014 NBAC updated (version 20151230_1002):

- 6 HANDS polygons < 250 ha were added that previously had been missed

December 1, 2015
2004 to 2014 NBAC updated (version 20151126):
- New Quebec data is added. Upon request, Quebec provided updated shapefiles with more accurate mapping method and data source. Polygons did not change.
- Changes to NWT crosswalk to NBAC attributes. Image delineation method was changed from 4 (other) to 2 (sketchmap).
- NFIREID 731 for 2013 was replaced with MAFIMS. This fire was previously mapped by Agency (Quebec) in NBAC.

Hide Lineage ▲

Distribution ▶

DISTRIBUTION FORMAT
  VERSION 1000
  * NAME Shapefile

TRANSFER OPTIONS
  * TRANSFER SIZE 39.005

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT nbac_2021_r9_20220624 ▶
  * TYPE Feature Class
  * ROW COUNT 1753
  DEFINITION
    A homogeneous collection of common features having the same spatial representation, such as points, lines, or polygons, and a common set of attribute columns.

  DEFINITION SOURCE
    Esri

FIELD FID ▶
  * ALIAS FID
  * DATA TYPE OID
  * WIDTH 4
  * PRECISION 0
  * SCALE 0
  FIELD DESCRIPTION
    Feature IDentifier (generated by ESRI). Internal feature number.

  * DESCRIPTION SOURCE
    Esri

  RANGE OF VALUES
    MINIMUM VALUE 0
    MAXIMUM VALUE 2147483647

  * DESCRIPTION OF VALUES
    Sequential unique whole numbers that are automatically generated.

Hide Field FID ▲

FIELD Shape ►
* ALIAS   Shape
* DATA TYPE   Geometry
* WIDTH   0
* PRECISION   0
* SCALE   0
* FIELD DESCRIPTION
  Feature geometry.

* DESCRIPTION SOURCE
  Esri

* DESCRIPTION OF VALUES
  Coordinates defining the features.

Hide Field Shape ▲

FIELD YEAR ►
* ALIAS   YEAR
* DATA TYPE   Double
* WIDTH   19
* PRECISION   0
* SCALE   0
  FIELD DESCRIPTION
  Year the fire burned.

  DESCRIPTION SOURCE
  None

  RANGE OF VALUES
  MINIMUM VALUE   1800
  MAXIMUM VALUE   2100

Hide Field YEAR ▲

FIELD NFIREID ►
* ALIAS   NFIREID
* DATA TYPE   Double
* WIDTH   19
* PRECISION   0
* SCALE   0
  FIELD DESCRIPTION
  NFIREID is a uniquely assigned ID to each fire event over a spatial region and for a
  specific year. It is the common ID used to link a fire event crossing a provincial,
  territorial, or national park boundary.

  DESCRIPTION SOURCE
  None

  RANGE OF VALUES

MINIMUM VALUE 0
MAXIMUM VALUE 2147483647

DESCRIPTION OF VALUES
Sequential whole numbers that are automatically generated.

Hide Field NFIREID ▲

FIELD BASRC ►
* ALIAS BASRC
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
BASRC identifies the data provider.

DESCRIPTION SOURCE
None

LIST OF VALUES
VALUE 0
DESCRIPTION Data source not defined
ENUMERATED DOMAIN VALUE DEFINITION SOURCE None

VALUE 1
DESCRIPTION NRCan - CFS/CCRS fine spatial resolution derived products from MAFiMS software.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE None

VALUE 2
DESCRIPTION NRCan - CCRS coarse spatial resolution derived products from HANDS algorithm.
ENUMERATED DOMAIN VALUE DEFINITION SOURCE None

VALUE 3
DESCRIPTION Fire agency (provincial, territorial, Parks Canada)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE None

VALUE 4
DESCRIPTION NRCan - CFS fine spatial resolution from Composite2Change (C2C)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE None

Hide Field BASRC ▲

FIELD FIREMAPS ►
* ALIAS FIREMAPS
* DATA TYPE Double
* WIDTH 19
* PRECISION 0
* SCALE 0
FIELD DESCRIPTION
FIREMAPS describes the data source or platform used to identify the burn.

DESCRIPTION SOURCE
None

LIST OF VALUES
VALUE   0
DESCRIPTION   Undefined: Source of detection not defined
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   1
DESCRIPTION   Other: Sources not clealy defined (eg. survey)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   2
DESCRIPTION   Field survey: Burn delineation from field survey
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   3
DESCRIPTION   Airborne platform: Airborne platform from helicopter or fixed-wing aircraft
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   4
DESCRIPTION   Aerial photograph: Digital or analogue aerial photographs
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   5
DESCRIPTION   Satellite hotspots: Fire mapped from satellite hotspots
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   6
DESCRIPTION   Satellite Imagery - other: Fire mapped from SPOT5, Quickbird, Rapideye, and airborne thermal imagery, or any other imagery not explicity coded to another value
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   7
DESCRIPTION   Satellite Imagery - SPOT VGT: Fire mapped from SPOT VEGETATION (VGT) imagery
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   8
DESCRIPTION   Satellite Imagery - MODIS: Fire mapped from Moderate Resolution Imaging Spectroradiometer (MODIS) imagery
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   9
DESCRIPTION   Satellite Imagery - Landsat 30m: Fire mapped from Landsat 5, 7, or 8 imagery
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   10
DESCRIPTION   Satellite Imagery - Sentinel-2: Fire mapped using Sentinel-2 imagery
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   11
DESCRIPTION   Satellite Imagery - Proba-V: Fire mapped using Proba-V imagery
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

Hide Field FIREMAPS ▲

FIELD FIREMAPM ▶
* ALIAS   FIREMAPM
* DATA TYPE   Double
* WIDTH   19
* PRECISION   0
* SCALE   0

FIELD DESCRIPTION
FIREMAPM describes the method used to delineate the burn polygon.

DESCRIPTION SOURCE
None

LIST OF VALUES
VALUE   0
DESCRIPTION   Undefined: Method of burned area mapping not defined
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   1
DESCRIPTION   Other: Methods not clealy defined (eg. IMS)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   2
DESCRIPTION   Sketch mapping or manual (human) interpretation: May be manually delineated onto a map and subsequently digitized or digitized directly using a digital tablet or computer monitor
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   3
DESCRIPTION   GPS: Digitized from a Global Positioning System (GPS) unit
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   4
DESCRIPTION   Processed - remote sensing methods: Digitized using automated remote sensing methods (eg. dNBR threshold)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   5
DESCRIPTION   Processed - buffered points: Digitized by buffering a fire location
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   6
DESCRIPTION   Processed - RS HANDS: Digitized using remote sensing Hotspot and NDVI Differencing Synergy (HANDS)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   7
DESCRIPTION   Processed - RS MAFiMS: Digitized using remote sensing Multi Acquisition Fire Mapping System (MAFiMS)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   8
DESCRIPTION   Processed - RS C2C: Digitized using remote sensing Composite2Change (C2C)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

Hide Field FIREMAPM ▲

FIELD FIRECAUS ▶

* ALIAS   FIRECAUS
* DATA TYPE   Double
* WIDTH   19
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   FIRECAUS describes the cause of the fire recorded by the agency.

DESCRIPTION SOURCE
   None

LIST OF VALUES
   VALUE   0
   DESCRIPTION   Undefined: Cause of fire unavailable
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

   VALUE   1
   DESCRIPTION   Other: Not covered by another category but resulting from known causes (e.g. "miscellaneous", "incendiary").
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

   VALUE   2
   DESCRIPTION   Lightning: Lightning
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

   VALUE   3
   DESCRIPTION   Industry: e.g. forestry, oil and gas, rail, agriculture, prescribed burn
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

   VALUE   4
   DESCRIPTION   Human: Nonindustrial human activity, eg. recreational (campfire, ATV, etc), arson
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

Hide Field FIRECAUS ▲

FIELD BURNCLAS ►
* ALIAS   BURNCLAS
* DATA TYPE   Double
* WIDTH   19
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
   BURNCLAS provided by agency fire data (to date, only provided by Alberta). Where partial burn is not provided, it is assumed to be full burn.

DESCRIPTION SOURCE
   None

LIST OF VALUES
   VALUE   1
   DESCRIPTION   Partially burned area: 1% - 25%
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

   VALUE   2
   DESCRIPTION   Partially burned area: 26% - 50%
   ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   3
DESCRIPTION   Partially burned area: 51% - 75%
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   4
DESCRIPTION   Fully burned area: 76% - 100% burned
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

Hide Field BURNCLAS ▲

FIELD SDATE ▶
   * ALIAS   SDATE
   * DATA TYPE   Date
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      SDATE is the date of the first detected hotspots within the spatial extent of the fire
      event. Null if no hotspots were detected.

   DESCRIPTION SOURCE
      None

   BEGINNING DATE OF VALUES   1800-01-01
   ENDING DATE OF VALUES   2100-01-01

   Hide Field SDATE ▲

FIELD EDATE ▶
   * ALIAS   EDATE
   * DATA TYPE   Date
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      EDATE is the last detected hotspots within the spatial extent of the fire event. Null if no
      hotspots were detected.

   DESCRIPTION SOURCE
      None

   BEGINNING DATE OF VALUES   1800-01-01
   ENDING DATE OF VALUES   2100-01-01

   Hide Field EDATE ▲

FIELD AFSDATE ▶
   * ALIAS   AFSDATE
   * DATA TYPE   Date
   * WIDTH   8
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      AFSDATE is the fire start date reported by the agency. Null if agency date was not
      provided.

DESCRIPTION SOURCE
None

BEGINNING DATE OF VALUES   1800-01-01
ENDING DATE OF VALUES   2100-01-01

Hide Field AFSDATE ▲

FIELD AFEDATE ►
  * ALIAS   AFEDATE
  * DATA TYPE   Date
  * WIDTH   8
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    AFEDATE is the fire end date reported by the agency. Null if agency date was not
    provided.

DESCRIPTION SOURCE
None

BEGINNING DATE OF VALUES   1800-01-01
ENDING DATE OF VALUES   2100-01-01

Hide Field AFEDATE ▲

FIELD CAPDATE ►
  * ALIAS   CAPDATE
  * DATA TYPE   Date
  * WIDTH   8
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    CAPDATE is the acquisition date of the source data. Examples include date of GPS
    acquisition, air photo acquisition, and Landsat satllite image. This field links to the
    National Forest Inventory INFO_DATE. Null if not provided.

DESCRIPTION SOURCE
None

BEGINNING DATE OF VALUES   1800-01-01
ENDING DATE OF VALUES   2100-01-01

Hide Field CAPDATE ▲

FIELD POLY_HA ►
  * ALIAS   POLY_HA
  * DATA TYPE   Double
  * WIDTH   19
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    POLY_HA is the total area of each fire polygon calculated in hectares using the Canada
    Albers Equal Area Conic projection.

DESCRIPTION SOURCE
None

DESCRIPTION OF VALUES
Positive real number

Hide Field POLY_HA ▲

FIELD ADJ_HA ▶
  * ALIAS   ADJ_HA
  * DATA TYPE   Double
  * WIDTH   19
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    ADJ_HA is an adjusted area burn of each fire polygon calculated in hectares. Area burned prediction models for Agency data (BASRC = 3) are described in Skakun et al., 2021 (https://doi.org/10.1088/1748-9326/abfb2c). Coarse resolution burned areas (BASRC=2) use a non-parametric linear Theil Sen regression function.

DESCRIPTION SOURCE
None

DESCRIPTION OF VALUES
Positive real number

Hide Field ADJ_HA ▲

FIELD ADJ_FLAG ▶
  * ALIAS   ADJ_FLAG
  * DATA TYPE   Double
  * WIDTH   19
  * PRECISION   0
  * SCALE   0

Hide Field ADJ_FLAG ▲

FIELD AGENCY ▶
  * ALIAS   AGENCY
  * DATA TYPE   String
  * WIDTH   5
  * PRECISION   0
  * SCALE   0
  FIELD DESCRIPTION
    AGENCY is the jurisdiction (Province, Territory, or National Park) where the fire polygon is mapped.

DESCRIPTION SOURCE
None

LIST OF VALUES
  VALUE   AB

DESCRIPTION   Alberta
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   BC
DESCRIPTION   British Columbia
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   MB
DESCRIPTION   Manitoba
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   NB
DESCRIPTION   New Brunswick
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   NL
DESCRIPTION   Newfoundland & Labrador
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   NS
DESCRIPTION   Nova Scotia
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   NT
DESCRIPTION   Northwest Territories
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   ON
DESCRIPTION   Ontario
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   QC
DESCRIPTION   Quebec
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   SK
DESCRIPTION   Saskatchewan
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   YT
DESCRIPTION   Yukon Territory
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   NU
DESCRIPTION   Nunavut
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-AL
DESCRIPTION   Aulavik (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-AY
DESCRIPTION   Auyuittuq (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-BA
DESCRIPTION   Banff (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-BP
DESCRIPTION   Bruce Peninsula (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-CB
DESCRIPTION   Cape Breton (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-EI
DESCRIPTION   Elk Island (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-FO
DESCRIPTION   Forillon (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-FU
DESCRIPTION   Fundy (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-GB
DESCRIPTION   Georgian Bay Is. (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-GF
DESCRIPTION   Gulf Islands (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-GH
DESCRIPTION   Gwaii Haanas (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-GL
DESCRIPTION   Glacier (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-GM
DESCRIPTION   Gros Morne (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-GR
DESCRIPTION   Grasslands (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-IV
DESCRIPTION   Ivvavik (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-JA
DESCRIPTION   Jasper (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-KE
DESCRIPTION   Kejimkujik (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-KG

DESCRIPTION   Kouchibouguac (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-KL
DESCRIPTION   Kluane (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-KO
DESCRIPTION   Kootenay (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-LM
DESCRIPTION   La Mauricie (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-MI
DESCRIPTION   Mingan (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-NA
DESCRIPTION   Nahanni (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-PA
DESCRIPTION   Prince Albert (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-PE
DESCRIPTION   Prince Edward Island (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-PP
DESCRIPTION   Point Pelee (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-PR
DESCRIPTION   Pacific Rim (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-PU
DESCRIPTION   Pukaskwa (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-QU
DESCRIPTION   Quttinirpaaq (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-RE
DESCRIPTION   Mount Revelstoke (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-RM
DESCRIPTION   Riding Mountain (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-SI
DESCRIPTION   Sirmilik (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-TI
DESCRIPTION   Thousand Islands (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-TM
DESCRIPTION   Torngat Mountains (National Park Reserve)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-TN
DESCRIPTION   Terra Nova (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-TU
DESCRIPTION   Tuktut Nogait (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-UK
DESCRIPTION   Ukkusiksalik (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-VU
DESCRIPTION   Vuntut (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-WB
DESCRIPTION   Wood Buffalo (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-WL
DESCRIPTION   Waterton Lakes (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-WP
DESCRIPTION   Wapusk (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

VALUE   PC-YO
DESCRIPTION   Yoho (National Park)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE   None

Hide Field AGENCY ▲

FIELD BT_GID ►
   * ALIAS   BT_GID
   * DATA TYPE   Double
   * WIDTH   19
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      BT_GID is a Business Table IDentifier, internal use

   DESCRIPTION SOURCE
      None

   DESCRIPTION OF VALUES
      Sequential unique whole numbers that are automatically generated.

Hide Field BT_GID ▲

FIELD VERSION ►
* ALIAS   VERSION
* DATA TYPE   String
* WIDTH   30
* PRECISION   0
* SCALE   0

FIELD DESCRIPTION
VERSION uniquely identifies the version of the dataset.

DESCRIPTION SOURCE
None

DESCRIPTION OF VALUES
Formatted as NNNN_rX_YYYYMMDD where NNNN is the year of the processed fire season; rX is the NBAC rule set used to generate the shapefile; YYYYMMDD is the file creation datestamp (year, month, day)

Hide Field VERSION ▲

FIELD COMMENTS ►
* ALIAS   COMMENTS
* DATA TYPE   String
* WIDTH   254
* PRECISION   0
* SCALE   0

FIELD DESCRIPTION
Notes made during processing and other information captured by the Agency.

DESCRIPTION SOURCE
None

DESCRIPTION OF VALUES
Descriptive words / sentences, along with other agency information captured under this field as field:value

Hide Field COMMENTS ▲

Hide Details for object nbac_2021_r9_20220624 ▲

Hide Fields ▲

Metadata Details ►

* METADATA LANGUAGE   English (CANADA)
METADATA CHARACTER SET   utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER   2DF689A0-B47B-4567-AFA6-2D7EC384B3C7
FUNCTION OF THE RESOURCE   information

SCOPE OF THE DATA DESCRIBED BY THE METADATA   * dataset
SCOPE NAME   * dataset

* LAST UPDATE   2022-06-28

ARCGIS METADATA PROPERTIES
  METADATA FORMAT   ArcGIS 1.0
  METADATA STYLE   North American Profile of ISO19115 2003
  STANDARD OR PROFILE USED TO EDIT METADATA   NAP

  CREATED IN ARCGIS FOR THE ITEM   2022-06-28   08:48:33
  LAST MODIFIED IN ARCGIS FOR THE ITEM   2022-06-28   09:17:56

  AUTOMATIC UPDATES
    HAVE BEEN PERFORMED   Yes
    LAST UPDATE   2022-06-28   09:17:56

Hide Metadata Details ▲

Metadata Contacts ►

METADATA CONTACT
  INDIVIDUAL'S NAME   Rob Skakun
  ORGANIZATION'S NAME   Government of Canada; Natural Resources Canada; Canadian Forest Service; Northern Forestry Centre; Canadian Wildland Fire Information System (CWFIS) Group
  CONTACT'S ROLE   editor

Hide Metadata Contacts ▲

Thumbnail and Enclosures ►

THUMBNAIL
  THUMBNAIL TYPE   JPG

Hide Thumbnail and Enclosures ▲

FGDC Metadata (read-only) ▼