

# MB\_Forest\_Fire\_polygons\_2012

## Shapefile

### Tags

fire, wildfire, forest fire, Manitoba

### Summary

Manitoba's wildfire perimeters for the 2012 fire season.

### Description

This is the finalized fire perimeter dataset of Manitoba's known wildfires for the 2012 fire season. It is a compilation of the best available fire perimeters and attribute data derived from year-end wildfire reports. Water bodies have been removed from the polygon layer only if they intersect the fire perimeter. While water bodies were not removed from this layer if fully enclosed by the fire perimeter (for visual purposes), their areas were still taken into account to calculate the final fire sizes. Fire size is to be taken from the attribute data, not from an area calculation of the polygons.

### Credits

Manitoba Conservation and Water Stewardship, Fire Program

### Use limitations

See <https://mli2.gov.mb.ca//app/register/app/index.php>

### Extent

**West** -102.424131    **East** -89.539025  
**North** 59.979410    **South** 48.871656

### Scale Range

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

## Topics and Keywords ►

**THEMES OR CATEGORIES OF THE RESOURCE** environment

**CONTENT TYPE** Downloadable Data

**PLACE KEYWORDS** MANITOBA, CANADA

**TEMPORAL KEYWORDS** 2012

**THEME KEYWORDS** fire, wildfire, forest fire

## Citation ►

**TITLE** MB\_Forest\_Fire\_polygons\_2012  
**PUBLICATION DATE** 2013-04-11

**PRESENTATION FORMATS** digital map

## Citation Contacts ►

### RESPONSIBLE PARTY

INDIVIDUAL'S NAME Garth Hoepfner

ORGANIZATION'S NAME Manitoba Conservation and Water Stewardship, Fire Program

CONTACT'S POSITION GIS & Weather Specialist

CONTACT'S ROLE originator

### CONTACT INFORMATION ►

ADDRESS

TYPE

E-MAIL ADDRESS [garth.hoepfner@gov.mb.ca](mailto:garth.hoepfner@gov.mb.ca)

## Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Esri ArcGIS 10.1.0.3035

### CREDITS

Manitoba Conservation and Water Stewardship, Fire Program

## Extents ►

### EXTENT

DESCRIPTION

Manitoba

### GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -102.424131

\* EAST LONGITUDE -89.539025

\* NORTH LATITUDE 59.979410

\* SOUTH LATITUDE 48.871656

\* EXTENT CONTAINS THE RESOURCE Yes

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 308691.898739

\* EAST LONGITUDE 1032276.918897

\* SOUTH LATITUDE 5438658.000122

\* NORTH LATITUDE 6649118.176358

\* EXTENT CONTAINS THE RESOURCE Yes

## Resource Points of Contact ►

### POINT OF CONTACT

INDIVIDUAL'S NAME Garth Hoepfner

ORGANIZATION'S NAME Manitoba Conservation and Water Stewardship, Fire Program

CONTACT'S POSITION GIS & Weather Specialist

CONTACT'S ROLE originator

CONTACT INFORMATION ►

ADDRESS

TYPE

E-MAIL ADDRESS [garth.hoeppner@gov.mb.ca](mailto:garth.hoeppner@gov.mb.ca)

## Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

## Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

See <https://mli2.gov.mb.ca//app/register/app/index.php>

CONSTRAINTS

LIMITATIONS OF USE

See <https://mli2.gov.mb.ca//app/register/app/index.php>

## Spatial Reference ►

ARCGIS COORDINATE SYSTEM

\* TYPE Projected

\* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983

\* PROJECTION NAD\_1983\_UTM\_Zone\_14N

\* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 26914

X ORIGIN -5120900

Y ORIGIN -9998100

XY SCALE 450445547.3910538

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

LATESTWKID 26914

WELL-KNOWN TEXT

PROJCS["NAD\_1983\_UTM\_Zone\_14N",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["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-99.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26914]]

REFERENCE SYSTEM IDENTIFIER

\* VALUE 26914

\* CODESPACE EPSG

\* VERSION 7.9.4

## Spatial Data Properties ►

### VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

#### GEOMETRIC OBJECTS

FEATURE CLASS NAME MB\_Forest\_Fire\_polygons\_2012

\* OBJECT TYPE composite

\* OBJECT COUNT 497

### ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME MB\_Forest\_Fire\_polygons\_2012

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Polygon

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 497

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

## Data Quality ►

### SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

## Lineage ►

### LINEAGE STATEMENT

Fire perimeters are derived from a combination of sources: GPS track, satellite imagery, or a single coordinate. If the fire perimeter was mapped by GPS, it will be validated against the best available post-season satellite imagery (Landsat or MODIS), with corrections made where required. If the fire perimeter wasn't mapped using GPS but a burn scar is attainable using Landsat or MODIS, the perimeter will be digitized from the imagery. If the perimeter wasn't mapped by GPS and isn't available from satellite imagery, it's derived by buffering the detection coordinate to a circle of the reported size.

## Distribution ►

### DISTRIBUTION FORMAT

NAME Shapefile

## Fields ►

### DETAILS FOR OBJECT MB\_Forest\_Fire\_polygons\_2012 ►

\* TYPE Feature Class

\* ROW COUNT 497

DEFINITION

feature class

DEFINITION SOURCE  
ESRI

FIELD FID ►

- \* ALIAS FID
- \* DATA TYPE OID
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Internal feature number.
- \* DESCRIPTION SOURCE  
Esri
- \* DESCRIPTION OF VALUES Sequential unique whole numbers that are automatically generated.

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.

FIELD FIRENUM ►

- \* ALIAS FIRENUM
- \* DATA TYPE String
- \* WIDTH 5
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Fire number as referenced by the Manitoba Fire Program. This is a unique identifier consisting of a two letter identifier for the region in which the fire occurred, followed by a 3 digit fire number. The regions are identified as: EA - Eastern, CE - Central, WE - Western, NE - Northeast, NW - Northwest

DESCRIPTION SOURCE  
Manitoba Fire Program

FIELD FORNUM ►

- \* ALIAS FORNUM
- \* DATA TYPE String

- \* WIDTH 254

- \* PRECISION 0

- \* SCALE 0

FIELD DESCRIPTION

Fire number as referenced by Manitoba Forestry. It consists of a 3 digit district identifier, and a 3 digit regional fire number.

DESCRIPTION SOURCE

Manitoba Fire Program

FIELD LATITUDE ►

- \* ALIAS LATITUDE

- \* DATA TYPE String

- \* WIDTH 254

- \* PRECISION 0

- \* SCALE 0

FIELD DESCRIPTION

Latitude of the fire detection location, in degrees minutes seconds.

DESCRIPTION SOURCE

Manitoba Fire Program

FIELD LONGITUD ►

- \* ALIAS LONGITUD

- \* DATA TYPE String

- \* WIDTH 254

- \* PRECISION 0

- \* SCALE 0

FIELD DESCRIPTION

Longitude of the fire detection location, in degrees minutes seconds. Values are assumed to be west of the prime meridian.

DESCRIPTION SOURCE

Manitoba Fire Program

FIELD LATDD ►

- \* ALIAS LATDD

- \* DATA TYPE Double

- \* WIDTH 10

- \* PRECISION 9

- \* SCALE 6

FIELD DESCRIPTION

Latitude of the fire detection location, in decimal degrees.

DESCRIPTION SOURCE

Manitoba Fire Program

FIELD LONDD ►

- \* ALIAS LONDD

- \* DATA TYPE Double

- \* WIDTH 11

\* PRECISION 10

\* SCALE 6

FIELD DESCRIPTION

Longitude of the fire detection location, in decimal degrees.

DESCRIPTION SOURCE

Manitoba Fire Program

FIELD PRIOZONE ►

\* ALIAS PRIOZONE

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Fire Priority Zone in which the fire occurred.

DESCRIPTION SOURCE

Manitoba Fire Program

LIST OF VALUES

VALUE R

DESCRIPTION Red Zone (High Priority)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Manitoba Fire Program

VALUE Y

DESCRIPTION Yellow Zone (Moderate Priority)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Manitoba Fire Program

VALUE G

DESCRIPTION Green Zone (Low Priority)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE Manitoba Fire Program

VALUE W

DESCRIPTION White Zone (Observation Zone)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

FIELD IGNIDATE ►

\* ALIAS IGNIDATE

\* DATA TYPE Date

\* WIDTH 8

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Ignition Date

DESCRIPTION SOURCE

Manitoba Fire Program

FIELD EXTIDATE ►

\* ALIAS EXTIDATE

\* DATA TYPE Date

\* WIDTH 8

\* PRECISION 0  
\* SCALE 0  
FIELD DESCRIPTION  
Extinguished Date

DESCRIPTION SOURCE  
Manitoba Fire Program

FIELD GENEACT ►

\* ALIAS GENEACT  
\* DATA TYPE String  
\* WIDTH 254  
\* PRECISION 0  
\* SCALE 0

FIELD DESCRIPTION  
General Activity; the general cause of the fire.

DESCRIPTION SOURCE  
Manitoba Fire Program

LIST OF VALUES

VALUE 01

DESCRIPTION Recreation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 02

DESCRIPTION Settlement

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 03

DESCRIPTION Woods Operation

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 04

DESCRIPTION Other Industry

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 05

DESCRIPTION Railroads

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 06

DESCRIPTION Public projects (dumps, transfer stations, etc.)

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 07

DESCRIPTION Incendiary

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 08

DESCRIPTION Miscellaneous

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 09

DESCRIPTION Agriculture



ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE 10

DESCRIPTION Lightning

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

FIELD CAUSE ►

\* ALIAS CAUSE

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Simplified fire cause, man or lightning.

DESCRIPTION SOURCE

Manitoba Fire Program

LIST OF VALUES

VALUE M

DESCRIPTION Man caused

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE L

DESCRIPTION Lightning caused

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

FIELD ACTION ►

\* ALIAS ACTION

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Action taken against the fire.

DESCRIPTION SOURCE

Manitoba Fire Program

LIST OF VALUES

VALUE AC

DESCRIPTION Actioned

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE LA

DESCRIPTION Limited Action

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

VALUE NA

DESCRIPTION No Action

ENUMERATED DOMAIN VALUE DEFINITION SOURCE MANITOBA Fire Program

FIELD FIRESIZE ►

- \* **ALIAS** FIRESIZE
- \* **DATA TYPE** Double
- \* **WIDTH** 16
- \* **PRECISION** 15
- \* **SCALE** 6

**FIELD DESCRIPTION**

Final fire size, in hectares. NOTE: This size may differ from a calculated polygon area, for various reasons. For example, interior water bodies were not removed from the polygons (for visual purposes), however the areas of any interior and intersecting water bodies were subtracted when calculating sizes on fires mapped with GPS or satellite.

**DESCRIPTION SOURCE**

Manitoba Fire Program

**FIELD MAPMETHOD ►**

- \* **ALIAS** MAPMETHOD
- \* **DATA TYPE** String
- \* **WIDTH** 100
- \* **PRECISION** 0
- \* **SCALE** 0

**FIELD DESCRIPTION**

The method by which the fire boundary was mapped.

**DESCRIPTION SOURCE**

Manitoba Fire Program

**LIST OF VALUES**

**VALUE** GPS Track

**DESCRIPTION** Handheld GPS from the ground or air.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** MANITOBA Fire Program

**VALUE** Buffered Point Location

**DESCRIPTION** Fire point location (derived from handheld GPS and manually entered into the fire system), buffered to the proper size.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** MANITOBA Fire Program

**VALUE** Digitized MODIS

**DESCRIPTION** Digitized burn scar using MODIS satellite imagery.

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** MANITOBA Fire Program

**VALUE** Digitized Landsat

**DESCRIPTION** Digitized burn scar using Landsat satellite imagery

**ENUMERATED DOMAIN VALUE DEFINITION SOURCE** MANITOBA Fire Program

## Metadata Contacts ►

**METADATA CONTACT**

**INDIVIDUAL'S NAME** Garth Hoepfner

**ORGANIZATION'S NAME** Manitoba Conservation and Water Stewardship, Fire Program

**CONTACT'S POSITION** GIS & Weather Specialist

CONTACT'S ROLE **originator**

CONTACT INFORMATION ▶

ADDRESS

TYPE

E-MAIL ADDRESS [garth.hoeppner@gov.mb.ca](mailto:garth.hoeppner@gov.mb.ca)