

Data Dictionary for Wildfire History
Database Tables

Years 1996-2005

Provincial Forest Fire Center
Sustainable Resources Development
Forest Protection Division

Created: June 2003
Last Modified: November 2018

* see appendix for additional definitions

<u>Field Name</u>	<u>Description</u>
<i>Web Detection 96-03</i>	
FIRE_NUMBER	<p><u>For the years 1996-2000</u></p> <p>Wildfire ID code with the format <i>DFNnnn</i> where:</p> <p>D = Region Identifier</p> <ul style="list-style-type: none"> • W ~ Northwest Boreal • E ~ Northeast Boreal • S ~ Southeast Slopes • N ~ Northeast Slopes <p>FN = District Identifier (two digit number)</p> <p>nnn = wildfire sequence number for the year (three digits with leading zeros)</p> <p>Example :E01001</p> <p><u>For the years 2001 to present</u></p> <p>Wildfire ID code with the format <i>DFNnnn</i> where:</p> <p>First digit = Wildfire Management Area (WMA) ID</p> <p>Values are:</p> <ul style="list-style-type: none"> • C–Calgary • E–Edson • H–High Level • G–Grande Prairie • L–Lac La Biche • M–Fort McMurray • P–Peace River • R–Rocky • S–Slave Lake • W–Whitecourt • A - Mutual Aid Resource Sharing Agreement (MARS) • N - Northwest Compact Agreement <p>Second Two Digits = Type of wildfire</p> <ul style="list-style-type: none"> • WF-Forest Protection Area • CI-City • MC-Metis Settlement • CN-Canadian National Railway • MD-Municipal District • CP-Canadian Pacific Railway • PP-Provincial Park • CU-County • RL-Rail Link

	<ul style="list-style-type: none"> • ID-Improvement District • TO-Town • IR-Indian Reserve • EX-Experimental Burn • PB -Prescribed Burn • HR-Hazard Reduction • NZ-National Park • BZ-British Columbia • SZ-Saskatchewan • TZ-Northwest Territories <p>For Mutual Aid Resource Sharing Agreement – ‘A’, the values are:</p> <ul style="list-style-type: none"> • BC-British Columbia • NT-Northwest Territories • MB-Manitoba • ON-Ontario • NB-New Brunswick • PE-Prince Edward Island • NF-Newfoundland • QC-Quebec • NP-National Park • SK-Saskatchewan • NS-Nova Scotia • US-United States of America • NU-Nunavut • YT-Yukon <p>For Northwest Compact Agreement – ‘N’, the values are:</p> <ul style="list-style-type: none"> • AK-Alaska • ID- Idaho • MT-Montana • OR-Oregon • WA-Washington <p>The last three digits is the wildfire number (beginning at 001 April 1)</p> <p>Example: CWF-001</p>
FIRE_YEAR	Year of wildfire occurrence. Fire year alternated between fiscal and calendar year during this reporting period.
YEAR	Calendar year of wildfire occurrence.
DETECTION_AGENT_TYPE	Code for general detection agent responsible for discovering the wildfire:

	<ul style="list-style-type: none"> • LKT = lookout • AIR = air patrol • GRP = ground patrol • UNP = unplanned
DETECTION_AGENT	<p>The detection agent who first discovered the wildfire:</p> <ul style="list-style-type: none"> • ASU ~ Helitack Crew • FW ~ Fixed Wing • HAC ~ Helitack • MD ~ Man-up Machine • RAP ~ Rapattack Crew • RW ~ Rotary Wing • FRST ~ Forest Officer • GARD ~ Guardian • PATR ~ Patrolman • PIND ~ Ground Patrol by Industry • 427 ~ 427-FIRE • GOVT ~ Other Government Agencies • LFS ~ FPD Personnel • PUB ~ General Public • UAA ~ Unplanned FPD Aircraft • UNID ~ Unplanned Industry • UPA ~ Unplanned Public Aircraft • See appendix for full list of Lookout tower name and ID's
DISCOVERED_DATE	The date the wildfire was discovered.
REPORTED_DATE	The date the wildfire was reported.
WIL_ID	Sequential number generated by computer assigned to each wildfire.
Web Fire Area 96-03	
FIRE_LOCATION_LATITUDE	Records the latitude of the point of origin of the wildfire.
FIRE_LOCATION_LONGITUDE	Records the longitude of the point of origin of the wildfire.
LAND_TYPE	<p>The type of land the wildfire occurred on:</p> <ul style="list-style-type: none"> • Non- Productive • Other • Potentially Productive • Productive • Private
Web Fire Volume 96-03	
FIRE_NUMBER	<p><u>For the years 1996-2000</u></p> <p>Wildfire ID code with the format <i>DFNnnn</i> where:</p> <p>D = Region Identifier</p> <ul style="list-style-type: none"> • W ~ Northwest Boreal • E ~ Northeast Boreal

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FN = District Identifier (two digit number)

nnn = wildfire sequence number for the year (three digits with leading zeros)

Example :E01001

For the years 2001 to present

Wildfire ID code with the format *DFNnnn* where:

First digit = Wildfire Management Area (WMA) ID

Values are:

- C–Calgary
- E–Edson
- H–High Level
- G–Grande Prairie
- L–Lac La Biche
- M–Fort McMurray
- P–Peace River
- R–Rocky
- S–Slave Lake
- W–Whitecourt
- A - Mutual Aid Resource Sharing Agreement (MARS)
- N - Northwest Compact Agreement

Second Two Digits = Type of wildfire

- WF-Forest Protection Area
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	<p>For Mutual Aid Resource Sharing Agreement – ‘A’, the values are:</p> <ul style="list-style-type: none"> • BC-British Columbia • NT-Northwest Territories • MB-Manitoba • ON-Ontario • NB-New Brunswick • PE-Prince Edward Island • NF-Newfoundland • QC-Quebec • NP-National Park • SK-Saskatchewan • NS-Nova Scotia • US-United States of America • NU-Nunavut • YT-Yukon <p>For Northwest Compact Agreement – ‘N’, the values are:</p> <ul style="list-style-type: none"> • AK-Alaska • ID-Idaho • MT-Montana • OR-Oregon • WA-Washington <p>The last three digits is the wildfire number (beginning at 001 April 1)</p> <p>Example: CWF-001</p>
YEAR	Year of wildfire occurrence.
VOLUME_BURNED	Size of wildfire (in ha) when the wildfire was extinguished.
WOOD_TYPE	<p>Type of wood that the wildfire occurred in:</p> <ul style="list-style-type: none"> • Coniferous • Deciduous • Coniferous Sawlog • Coniferous Smallwood
<i>Web Wildfire 96-03</i>	
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YEAR	Year of wildfire occurrence.
FIRE_LOCATION_LATITUDE	Records the latitude of the point of origin of the wildfire.
FIRE_LOCATION_LONGITUDE	Records the longitude of the point of origin of the wildfire.
ASSESSMENT_DATETIME	The date the wildfire was first assessed by forestry personnel.
FIRE_ORIGIN	<p>Code for the land owner group where the wildfire originated:</p> <ul style="list-style-type: none"> • B.C. • DND • Indian Reservation • Metis Settlement • NWT • National Park • Private Land • Provincial Land • Provincial Park

	<ul style="list-style-type: none"> • Saskatchewan • USA
INDUSTRY_IDENTIFIER	<p><i>Use only when GENCAUSE = 0.</i></p> <p>Supplemental code for another industry cause:</p> <ul style="list-style-type: none"> • commercial fishery • commercial tourism • commercial transportation • federal • mining • oil and gas • provincial • trapping • utility • waste disposal
RESPONSIBLE_GROUP	<p>Supplemental code for responsible group:</p> <p><i>First digit = GENCAUSE [There is no RESPGROUP for GENCAUSE=Lightning (1), Miscellaneous Known (8) and Unknown (9)]</i></p> <ul style="list-style-type: none"> • 001 = operators • 002 = construction workers • 003 = contractors • 004 = employees; maintenance & service personnel • 005 = trappers/commercial fishery • 006 = commercial fishermen • 099 = others (explain in remarks) <ul style="list-style-type: none"> • 201 = farmers/ranchers/settlers • 202 = Indian on reserve • 203 = cottage owner • 204 = children • 205 = absent landowner • 299 = others (explain in remarks) <ul style="list-style-type: none"> • 301 = operators • 302 = construction workers • 303 = maintenance/service personnel • 304 = other employees • 305 = contractors • 399 = others (explain in remarks) <ul style="list-style-type: none"> • 401 = operators • 402 = construction workers • 403 = maintenance/service personnel • 404 = passenger • 405 = other employees • 406 = contractors • 499 = others (explain in remarks)

	<ul style="list-style-type: none"> • 601 = berry pickers • 602 = bikers (non-powered) • 603 = boaters, canoeists, kayakers • 604 = campers • 605 = swimmers • 606 = picnickers • 607 = hikers • 608 = fishermen • 609 = hunters • 610 = ATV users • 611 = horseback riders • 699 = others (explain in remarks) • 701 = employment • 702 = insurance • 703 = religion • 704 = grudge • 705 = dare • 706 = cover-up • 707 = personal gain • 708 = illness • 799 = others (explain in remarks)
GENERAL_CAUSE	<p>Code for general cause of wildfire:</p> <p>0 = other industry (industry other than forest industry or railway)</p> <p>1 = lightning</p> <p>2 = resident (a person or equipment during an agricultural activity or a person who caused an accidental wildfire while living in a forest area)</p> <p>3 = forest industry (any activity related to the forest industry)</p> <p>4 = railroad (any activity related to the railroad industry)</p> <p>5 = Prescribed Burn</p> <p>6 = recreation (caused by a person or equipment during a recreational activity)</p> <p>7 = incendiary (a wildfire started wilfully by a person)</p> <p>8 = misc. known (any other known cause)</p> <p>9 = unknown</p> <p>? = Under Investigation</p>
TRUE_CAUSE	<p><i>Do not code when GENCAUSE = 1 (lightning)</i></p> <p>Code for true cause of wildfire:</p> <p>1 = abandoned wildfire (responsible person left site permanently before wildfire was out)</p> <p>2 = unsafe wildfire (wildfire lit under unsafe conditions)</p> <p>3 = insufficient resources (for the size of wildfire)</p> <p>4 = unattended wildfire (responsible person left site but</p>

	<p>intended to return later)</p> <p>5= insufficient buffer (inadequate fuel-free buffer zone)</p> <p>6= flammable fluids</p> <p>7= burning substance (placed on flammable forest fuel)</p> <p>8= hot exhaust or exhaust sparks</p> <p>9= unpredictable happening (e.g. animal on powerline, solar radiation, vehicle or air crash, house wildfire, pipeline explosion, etc.)</p> <p>10=arson known</p> <p>11 =high hazard occurrence (hazard occurred after the wildfire was lit)</p> <p>12 =arson suspected</p>
ACTIVITY_CLASS	<p><i>Do not code when GENCAUSE = 1 (lightning)</i></p> <p>Code for specific man-related activity classification:</p> <ul style="list-style-type: none"> • Disposal burning: <ul style="list-style-type: none"> • windrows • piles • brush • grass • slash • refuse • flaring gas • Individual activity: <ul style="list-style-type: none"> • smoking • cooking • ammunition, fireworks, etc • children playing with • matches • arson • lighting wildfires • traditional burning • Operating: <ul style="list-style-type: none"> • heavy equipment • rail transportation • vehicle transportation • all-terrain vehicle, • motorbike, etc. • welders or associated • equipment • power saws • power lines • engines • stoves, lamps • pipelines • air transportation • power saw • refuelling

	<ul style="list-style-type: none"> Unclassified: <ul style="list-style-type: none"> all other activities
FIRE_START_DATE	The date the wildfire started (this may be an estimated date).
FIRE_SPREAD_RATE	The rate at how fast that the wildfire is moving: <ul style="list-style-type: none"> F ~ Fast M ~ Moderate N ~ Not Moving
FIRE_TYPE	Code for type of wildfire at initial assessment: <ul style="list-style-type: none"> ground wildfire surface wildfire crown wildfire
FIRE_POSITION_ON_SLOPE	The position of the wildfire relative to the slope it is travelling on: <ul style="list-style-type: none"> Bottom Flat Lower 1/3 Middle 1/3 Upper 1/3
WEATHER_CONDITIONS_OVER_FIRE	The weather at the time of initial suppression over the wildfire area: <ul style="list-style-type: none"> No Precipitation Rain Showers Continuous Rain Ground Fog Drizzle Thunderstorm Hail Snow Showers
FUEL_TYPE	Coniferous: <ul style="list-style-type: none"> C-1; spruce-lichen woodland C-2; boreal spruce C-3; mature Jack or Lodgepole Pine C-4; immature Jack or Lodgepole Pine C-5; Red and White Pine C-6; conifer plantation Deciduous: D-1; leafless Aspen Mixedwood: M-1; boreal mixedwood - leafless M-2; boreal mixedwood - green M-3; dead Balsam fir mixedwood - leafless M-4; dead Balsam fir mixedwood-green Slash S-1; Jack or Lodgepole Pine slash S-2; White Spruce - Balsam slash Grass: O-1a; matted grass O-1b; standing grass
INITIAL_ACTION_BY	Code for initial attack by: <ul style="list-style-type: none"> Airtanker Forest Officer Forest Protection Staff

	<ul style="list-style-type: none"> • FPD Forest Officer • Ground Tanker • Helitanker • Man-up Crew • MARS Other • MARS WFC 1 • WFC 1 HAC • WFC 1 HSC • WFC 1 RAP • WFC 2
START_FOR_FIRE_DATE	The date the wildfire started (this may be an estimated date).
DISCOVERED_SIZE	Size of wildfire (in ha) when it was discovered.
WIND_DIRECTION	Wind Direction values at time of initial attack.
WIND_SPEED	Wind Speed values at time of initial attack.
SEEN_AREA_1	<p>The detection agents or agents in whose seen area the wildfire was discovered.</p> <p>Lookouts: If the wildfire falls into one or more than one lookouts seen area (visible and indirectly visible), enter the lookouts <input type="checkbox"/> 2-letter ID code for up to three lookouts (Records 36 through 38). If the wildfire falls in the air patrol seen area (anything not in the lookouts seen area by default) enter AIR.</p>
SEEN_AREA_2	(see SEEN_AREA_1)
SEEN_AREA_3	(see SEEN_AREA_1)
OTHER_FUEL_TYPE	For fuel types other than listed in the FUEL_TYPE list. Eg., vehicles, garbage, or structures.

Appendix

HAC = Helitack Crews, which are classified as a Wildland Firefighting Crew, Type I. Also a specialized crew, designed to action new wildfire starts to control and extinguish wildfires before the wildfire spreads and gets out-of-control.

HSC = Helitack Support, which are classified as Wildland Firefighting Crew, Type I - HS. These crews are designed to primarily provide rapid support action for Rapattack and Helitack crews on new starts, and be able to remain on wildfires for up to 48 hours without resupply.

Non-Productive = Land area including muskeg, rock barrens, marshes, etc., (area in ha.)

Potentially Productive = Forest land with regeneration or other growth indicating it's potential productivity (area in ha.)

Private = Privately owned land (area in ha.)

Productive = Forest land with marketable timber (area in ha.)

Other = Land under other ownership i.e. Indian Reserve, Provincial Park, etc. (area in ha.)

RAP = Rapattack Crews, which are classified as a Wildland Firefighting Crew, Type I-R. They are specialized crews who have rappel ability.

WFC = Wildland Firefighting Crew

Lookout Observer - is required to perform a variety of duties. The first priority is to provide early detection and accurate reporting of potential smokes and forest wildfires. Lookouts provide continuous observation until wildfire control personnel arrive at the wildfire location. Lookout towers are located throughout the province, and are filled by the appropriate Region.

Sustained Action Crews - are classified as a Wildland Firefighting Crew, Type II. These crews undergo two weeks of vigorous training on safety practices and firefighting procedures, including options in forest management practices. These crews may help other programs, i.e., industry, when wildfire hazard permits.

Lookout Names and Codes:

<u>ID</u>	<u>Station Name</u>
AC	Adams Creek
AD	Adair
AL	Algar
AM	Amber
AN	Ansell
AT	Athabasca
AU	Aurora
BC	Basset
BD	Bald Mountain
BE	Berland

BF	Buffalo
BH	Blue Hill
BI	Birch Mountain
BL	Baseline
BM	Bitumont
BN	Buckton
BP	Barrier Lake
BR	Battle River
BS	Bison Lake
BT	Blackstone
BY	Baldy
BZ	Brazeau
CA	Chinchaga
CB	Carbondale
CC	Carrot Creek
CE	Cline
CF	Cambrian
CH	Clear Hills
CK	Conklin
CM	Chisholm
CP	Cowpar Lake
CT	Copton
CU	Cadotte
CY	Chipewyan Lakes
DG	Doig
DM	Deer Mountain
DW	Deadwood
EA	Eagle
EC	Economy Creek
ED	Edra
EH	Enilda
EL	Ells River
FG	Foggy Mountain
FL	Falls
FO	Fontas
FT	Flat Top
GE	Grande
GF	Grave Flats
GL	Gordon Lake
GM	Goose Mountain
GT	Gift Lake

HA	Hammel
HB	Hailstone Butte
HH	Hawk Hills
HK	Hotchkiss
HL	Heart Lake
HM	House Mountain
HU	Huckleberry
IM	Imperial
IS	Ironstone
JE	Jean Lake
JM	Junction Mountain
JO	Johnson Lake
KA	Kakwa
KE	Keg
KK	Kananaskis
KM	Kimiwan
LG	Legend
LI	Limestone
LK	Livock
LO	Lovett
LV	Livingstone
MB	Mayberne
MH	Mockingbird Hill
MN	Meridian
MO	Moberly
MQ	Muskwa
MR	Marten Mountain
MS	Moose Mountain
MU	Muskeg Mountain
MY	May
NM	Nose Mountain
NO	Notikewin
OB	Obed
OL	Otter Lakes
PA	Panny
PD	Petitot
PL	Porcupine
PO	Ponton
PS	Pass Creek
PT	Pinto
PU	Puskwaskau

RA	Ram
RE	Red Earth
RH	Round Hill
RI	Richardson
RK	Rock Island Lake
RR	Raspberry Ridge
RT	Rainbow
RY	Rocky
SA	Saddle Hills
SD	Swan Dive
SG	Sugarloaf
SI	Simonette
SK	Smoky
SN	Snuff Mountain
SP	Salt Prairie
SQ	Sandy Lake
SR	Sand River
ST	Stony Mountain
SV	Steen
SW	Sweathouse
TM	Trout Mountain
TO	Tom Hill
TP	Teepee Lake
TR	Torrens
TT	Talbot Lake
TY	Tony
VG	Vega
WC	Whitecourt
WD	Whitemud
WF	Whitefish
WI	Winefred
WM	White Mountain
WT	Watt Mountain
WU	Wadlin
YA	Yates
YH	Yellowhead
ZA	Zama