APPROVED

NWCG Geospatial Data Layer Standard Metadata Definition and Data Layer Specifications

Wildland Fire Event Line

Wildland Fire Event Line

Layer Description: The Wildland Fire Event Line data standard will define the minimum

attributes necessary for collection, storage and dissemination of **incident** based data on wildland fires (wildfires and prescribed fires). The standard is not intended for long term data storage, rather a standard to assist in the creation of incident based data management tools, minimum standards for data exchange, and to assist users in meeting GIS Standard Operating

Status: Approved

Source Record: N/A

Layer Name:

Purpose:

System of Record: N/A

Data Stewardship Group: Geospatial Subcommittee

Data Steward: Skip Edel

Additional Text: This standard is for incident based data collection, storage and exchange.

Background:

Currently there are several methods to manage spatial data on wildland fires, where the Incident Command System (ICS) is used. Some use tools like the Fire Incident Mapping Tool (FIMT) to create and manage data. Others use geodatabase feature classes or shapefiles to store attribute information. The intent of this standard is to update existing data formats and provide a common set of attributes for use on wildland fires.

Abstract:

The standard will store information dealing with ICS data line features.

A data standard will provide a common platform for wildland fire event data development and sharing. It will allow for smoother transitions between teams on wildfire incidents. This will save time, money, and get products into the users hands more quickly. The standard will also help make ICS maps

more consistent by working from a common attribute set.

Data Model: Line feature class

Other Notes: This feature class will use a specific symbol set. The symbol set is defined by

the GIS Standard Operating Procedures for Incidents (GSTOP). For additional

information follow this link: http://gis.nwcg.gov/gstop_about.html

Related Layers: This feature class will be part of a Incident Geodatabase that will contain Fire

Point, Fire Line, and Fire Polygon feature classes.

Horizontal and/or Vertical **Position Accuracy:**

Standards for horizontal and vertical accuracies are detailed in Geospatial Positioning Accuracy Standards; Part 3: National Standard for Spatial Data Accuracy (NSSDA), http://www.fgdc.gov/standards/projects/FGDC-standardsprojects/accuracy/part3/chapter3. Accuracy is reported by feature in meters at the 95% confidence level listed in the HAccuracy and/or VAccuracy fields. Accuracy reported at the 95% confidence level means that 95% of the positions in the feature will have an error with respect to true ground position that is equal to or smaller than the reported accuracy value.

Horizontal and/or Vertical

Data layer projection parameters should be documented in a .prj file Spatial Reference Information: (shapefile format) or in a geodatabase projection definition. Or, specify the projection parameters via an EPSG code (example EPSG code 4326 = WGS84) http://www.epsg-registry.org. Projection parameters file should include applicable attributes as specified in the FGDC Standards Reference Model, 4.1.2.1.23.

Questions or comments can be emailed to:

BLM FA NWCG DATA@blm.gov

Information on the process of requesting a new Data Standard or a change to an existing Data Standard can be located at:

http://www.nwcg.gov/?q=data-standards

Information about the Data Standards & Terminology Subcommittee (DSTS) can be found at: http://www.nwcg.gov/?q=committees/data-standards-and-terminology-subcommittee

APPROVED NWCG Geospatial Data Layer Standard Attributes Wildland Fire Event Line

Standard Name*	Alternate Name	Required?	Data Type	Size/	Description	Values	Related NWCG
	=			Width			Standard
Jurisdictional Unit Identifier	UnitID NWCG_UID NFIRSUntID	Yes	String	10	Code used in interagency wildland fire to uniquely identify the governmental entity having overall land and resource management responsibility for a specific geographical area as provided by law. NWCG Unit Identifier should be used. In cases where NWCG Unit Identifier is not available, a National Fire Incident Reporting System (NFIRS) ID may be used instead.	NWCG (PMS 931: Unit Identifiers) Example: CORMP NFIRS ID (FDID, State, Station) Example: 07434VA001	Unit Identifier
MapMethod	Map_Method MapMeth	Yes	String	25	Controlled vocabulary to define how the geospatial feature was derived. Map method may help define data quality.	GPS-Driven; GPS-Flight; GPS-Walked; GPS-Walked/ Driven; GPS-Unknown Travel Method; Hand Sketch; Digitized-Image; Digitized-Topo; Digitized-Other; Image Interpretation; Infrared Image; Modeled; Mixed Methods; Remote Sensing Derived; Survey/GCDB/Cadastral; Vector; Phone/Tablet; Other	
DateCurrent	DateCrnt EditDate	Yes	Date		The last edit, update, of this GIS record. Date should follow the assigned NWCG Date Time data standard, using 24 hour clock, YYYY-MM-DDhh.mm.ssZ, ISO8601 Standard.	Example: 2014-06-23-15.30Z	Date Time (Assigned)
Comments	Notes GIS_Note	No, but recommended	String	255	Additional information describing the feature.	Free text	
GeometryID	Geometry_ID GIS_ID Spa_ID	Yes	String	50	Primary key for linking geospatial objects with other database systems. Required for every feature. This field may be renamed for each standard to fit the feature.	Globally Unique Identifier (GUID). **	
RWINID	FireOccurID, PtOriginLnk	Yes	String	50	Primary key for linking to the Wildland Fire Locations Point dataset. The origin of this GUID is the IRWIN application and must be sourced there. (This unique identifier may NOT replace the GeometryID core attribute)	Globally Unique Identifier (GUID) populated from wildland fire locations point data	
LocalincidentID	FireNum, SOFireNum	Yes	String	10	Local incident identifier (dispatch number). A number or code that uniquely identifies an incident for a particular local fire management organization within a particular calendar year. Field is string to allow for leading zeros when the local incident identifier is less than 6 characters. (IRWIN required).	Example: 123456	Local Incident Identifier
IncidentName	FireName	Yes	Sting	50	The name assigned to an incident; assigned by responsible land management unit. (IRWIN required). Officially recorded name	Example: Big Fire	Incident Name
FeatureCategory	LineType	Yes	String	50	Type of wildland fire polygon or unburned areas.	Domain: Uncontrolled Fire Edge; Completed Dozer Line; Completed Line; Completed Hand Line; Road as Completed Line; Active Burnout; Aerial Foam Drop; Aerial Hazard; Aerial Ignition; Aerial Retardant Drop; Aerial Water Drop; Air Tanker Foam; Air Tanker Retardant; Completed Burnout; Edge of Imagery; Escape Route; Explosive Line; Fire Break Planned or Incomplete; Fire Spread Prediction; Helitanker Foam; Helitanker Water; Highlighted Manmade Feature; Line Break Completed; Management Action Point; Planned Fire Line, Planned Secondary Line, Completed Plow Line, Proposed Burnout, Proposed Dozer Line; Ridge/Geographic Feature; Unknown; Other	
Label	Label	No	String	100	The label applied to the feature in a GIS system.	Example: DP-5	
Line Date Time	LineDatTime, CollectDat	Yes	Date	12	The date and time that the fire perimeter was collected in the field. Date should follow the assigned NWCG Date Time data standard, using 24 hour clock, YYYY-MM-DDhh.mm.ssZ, ISO8601 Standard.	Example: 2014-06-23-15.30Z	Date Time (Assigned)
					1308001 Standard.		

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CreateDate	Yes	Date		Date the feature was created. Date	Example: 2014-06-23-15.30Z	Date Time
				should follow the assigned NWCG Date		(Assigned)
				Time data standard, using 24 hour		(isolgines,
				clock, YYYY-MM-DDhh.mm.ssZ,		
				ISO8601 Standard (include seconds if		
				available).		
EditName	Yes	String	50	Name of the person editing the feature.	Example: Joe Smith	
ContactName	Yes	String	50	Name of the incident based contact responsible for data creation.	Example: Joe Smith	
ContactEmail	Yes	String	50	Email of the incident based contact responsible for data creation.	Example: joe@nps.gov	
ContactPhone	Yes	String	15	Phone number for the incident based	Example: 303-555-1212	
				contact responsible for data creation.		
DeleteThis	No	String	3	For managing data during mobile data	Example: Yes, No	
				collection. An attribute flag to tell		
				editors to remove a feature added in		
				error.		
ComplexName	No	String	50	The name of the complex that the fire	Example: Track Fire	Complex Glossar
				is assigned. If there is no complex it will be blank.		Term
ComplexID	No	String	50	The IRWINID of the complex.	Globally Unique Identifier (GUID). Example:	
					{BE8A2C46-0B00-418F-9FBF-ED8E6625F430}	
RepairStatus	No	String	50	Status of the Suppression Repair	Domain: No Repair Needed, Not Applicable,	
				project for each feature.	Repair Needed, In Progress, Completed -	
					Ready for Inspection, Completed - Inspected,	
					Other - See Comments	
RepairComments	No	String	200	Comments on the Suppression Repair		
				for each feature.		
GACC	Yes	String	5	Geographic Area Coordination Center	Domain: AICC; EACC; GBCC; ONCC; NRCC;	
		0		where the fire is located.	NWCC; RMCC; SACC; OSCC; SWCC.	
IMTName	No	String	25	Name of the Incident Management	Example: Southern Area Blue Team	
IsVisible	Voc	Ctring	5	Team in charge of the fire.	Domain, Vas. No.	
	Yes	String		Provides a flag for mapping display.	Domain: Yes, No	
FeatureAccess	Yes	String	20	Determines who or what groups can	Domain: Public (available for Public maps or	
				view a particular feature.	web sites); Cooperators (shared only with	
					wildland fire agencies); Incident (only for use	
					for incident staff); Restricted (sharing or	
					viewing by a specific group).	

^{*}Standard field names should be used for the core attributes when possible. Alternate field name suggestions are given to accommodate database conflicts and legacy datasets. Alternate name use should be documented in the Other Notes section above.

Users should generate a GeometryID for each unique record they create (spatial or non-spatial) for NWCG datasets. It is the data creators responsibility to create and maintain this ID for the life of that particular record. It is the responsibility of the person doing the data aggregation at a regional or national level to maintain this GUID as well. A GUID can be created in multiple ways - on a cell by cell basis using a website or script to generate a unique GUID, on a group of records using a script, or it can be automatically generated by the users GIS software or tools.

^{**} GUIDs are unique specially formatted numeric strings generated by a "GUID generation tool." GUIDs can be generated at http://www.guidgenerator.com/. The purpose of the GeometryID is to ensure that every unique object has a unique ID. This is important in an enterprise implementation where data is coming from many sources to determine if an object is unique or if it has been duplicated. Between the GlobalID and the FireOccurID (IRWINID) the unique geometry may be determined.