National Wildfire Coordinating Group
GIS Data Layer Standard

Status: __ Draft   __ Proposal   _X_ Approved   Date: February 16, 2006

Section 1: Data Standard Information:

1. Layer Name:	**Fire History (polygons)**
2. Layer Abbreviation:	None
4. Layer Description:	Fire History polygons represent final mapped wildland fire perimeters. This data is maintained at the unit level to track the area affected by fire. In the coverage format, polygon perimeters are stored via a regions feature class due to overlapping fire perimeters.
5. References:	None
6. Data Stewardship Group	NWCG Geospatial Task Group (GTG)
7. Data Steward	Joe Frost, GTG Data Steward
8. System of Record	Not determined
9. Custodian	Not determined

Section 2: GIS Data Layer Specifications:
This section identifies the geospatial criteria for the data files associated with this data layer.

1. File Information

A. Layer File Type	Shapefile, Coverage or Geodatabase							
B. Projection Parameters Filename	Include projection information with dataset. (Projection parameters file should include applicable attributes as specified in the FGDC Standards Reference Model, 4.1.2.1.23)							
C. Feature Type *(Check one)*		Grid		Point		Line	X	Polygon		Raster

2. Standard Horizontal Coordinate System Definition for Layer (Check one)

	Geographic		Planar	X	Not Applicable

A. Geographic

	Latitude:Longitude		
Coordinate Units	Decimal Degrees	Decimal Minutes	Decimal Seconds
	Degrees and decimal minutes	Degrees, minutes, and decimal seconds	Grads	Radians

B. Planar

1. Map Projection Name:	
Map Projection Parameters:	
or	

2. Grid Coordinate System Name:	Universal Transverse Mercator	Universal Polar Stereographic	ARC Coordinate System
	State Plane Coordinate System 1927	State Plane Coordinate System 1983	Other grid system

Planar Distance Units	Meters	International Feet	Survey Feet	Other:

C. Horizontal Datum Name	North American Datum 1927	North American Datum 1983

3. Target Map Scale	Not Applicable	x	1:24,000	x	1:63,360 (Alaska)		Other:

Section 3: Business Data Specifications:
This section identifies the business data that is needed for this GIS data layer.

Data Element Name	Abbreviation	Description	Required?	Length	Data Type	Decimals	Example	Data Standard Reference
Unit Identifier	UNIT_ID	Administrative unit at the fire's point of origin	Yes	7	String		AK-FAF	NWCG: Unit Identifier
Fire Year	FIRE_YEAR	Year in which fire started	Yes	4	String		2004	Submitted to NWCG Data Administration Working Group
Fire Number	FIRE_NUM	Number assigned to the fire by the field area	Yes	8	String		193	Submitted to NWCG Data Administration Working Group
Fire Name	FIRE_NAME	Name of fire; assigned by responsible land management unit	Yes	50	String		Boundary	Submitted to NWCG Data Administration Working Group
Date	DATE_CUR	Currentness of polygon geometry	Yes	8	Date		YYYYMMDD	NWCG: Date
Comments	COMMENTS	Fire perimeter related comments	No	50	String		See Discussion Item 2	None identified
Local Identifier	LOCAL_ID	User Generated ID that maps to the local GIS database	No	50	Long		8736233	Submitted to NWCG Data Administration Working Group
GIS Other	GIS_OTHER	User Generated ID that maps to the local GIS database	No	50	String		AK-FAF_2004_193	Submitted to NWCG Data Administration Working Group

Section 4: Discussion:

1. Items listed as required identify the minimum Interagency/National expectation of attributing for wildland fire history layers. Additional fields that are of interest to the local land management unit, or to a particular agency or bureau, may be appended to the list of required fields.

2. Inputs to the 'Comments' field are at the user's discretion. Information that could be useful to input as 'Comments' include items such as: data source of the fire perimeter, GIST contact information and other information that would be of value to end-users of the fire perimeter.

Explanation of the GIS Layer Data Standard Template

Section 1: Data Standard Information:

Field Name	Description	Source	Example(s)
Status *(To be filled out by the DAWG only)*	Draft - The meta-data definition has been defined, but has not been reviewed by the DAWG. Proposed – The meta-data definition has been reviewed by the DAWG and is in the review stage. Approved – The meta-data definition has been approved by the DAWG and published as an NWCG standard.		• Draft • Proposed • Approved
Date	The date the document was submitted for review.		November 12, 2003
Layer Name:	In broad terms, the particular map features captured within the GIS data set related to this standard. The name may not include abbreviations.		• Fire Perimeter • Condition Class • Fire Management Unit
Layer Abbreviation:	The short name or abbreviation for the Layer.		• FMU • FRCC
Layer Description:	A description of the map features captured within the GIS data set related to this standard.		See other NWCG Standards for examples.
References:	Any references and supporting documentation describing the map features captured within the GIS data set described by this standard. Includes document name, reference number, source agency, and date, where applicable.		• NWCG Glossary • National Mobilization Guide • FPA Glossary
Data Stewardship Group	The organization(s) responsible for the accuracy of the attribute's definition.	NWCG DAWG Concept Paper	• Geospatial Task Group
Data Steward or Source Reference	The person(s) responsible for the attribute meta-data definition (name, contacts, definition, business rules) or the reference number of an adopted data standard from an external source.	NWCG DAWG Contact List	• Joe Frost, GTG Data Steward
System of Record	The manual or automated system that serves as the authoritative source from which other systems can retrieve shape files related to this standard.	NWCG System of Record	• Fire Planning & Analysis System
Custodian	The person(s) responsible for the maintenance and quality of the actual data in the system of record.		•

Section 2: GIS Data Layer Specifications:			
	Description	Source	Example(s):
1. File Information			
A. Data Layer File Type	The designated file type to which the data layer information must be formatted.	GTG	Shapefile, Geodatabase
B. Projection Parameters Filename	The name of the file that holds the projection parameters for this data layer standard. The filename will typically include the abbreviation for the data layer and the ".prj" extension.	GTG	.prj
C. Feature Type	The appropriate standard data value as referenced in the data standard identified in the Source column.	NWCG: FEATURE TYPE	Point, line, polygon, region polygon or raster
2. Standard Horizontal Coordinate System Definition for Layer	The reference frame or system from which linear or angular quantities are measured and assigned to the position that a point occupies.	FGDC-STD-001-1998 4.1	Geographic, Planar
A. Geographic	A geospatial definition that defines the position of a point on the earth's surface with respect to a reference spheroid.	FGDC-STD-001-1998 4.1.1	
i. Latitude: Longitude	The Latitude and longitude expressed in Geographic Coordinate Units of Measure as referenced in the data standard identified in the Source column	FGDC-STD-001-1998 4.1.1.1 & 4.1.1.2	39.7392:104.9844
ii. Coordinate Units	Units of measure used for latitude and longitude values.	FGDC-STD-001-1998 4.1.1.3	Refer to valid values on template
B. Planar	A geospatial definition that defines the position of a point on a reference plane to which the surface of the earth has been projected.	FGDC-STD-001-1998 4.1.2	
i. Map Projection Name	The name of the map projection used to represent all or part of the surface of the Earth on a plane or developable surface.	FGDC-STD-001-1998-4.1.2.1.1	Refer to list of valid values identified in FGDC-STD-001-1998
ii. Map Projection Parameters	A complete parameter set of the projection that was used for the dataset.	FGDC-STD-001-1998-4.1.2.1.23	Refer to parameter specifications identified for each map projection in FGDC-STD-001-1998
iii. Grid Coordinate System Name	The name of the grid coordinate system used.	FGDC-STD-001-1998-4.1.2.2.1	Refer to valid values on template
iv. Planar Distance Units	Units of measure for distances	FGDC-STD-001-1998 4.1.2.4.4	Refer to valid values on template
C. Horizontal Datum Name	The identification given to the reference system used for defining the coordinates of points	FGDC-STD-001-1998 4.1.4.1	Refer to valid values on template
3. Target Map Scale	The reduction needed to display a representation of the Earth's surface on a map. A statement of a measure on the map and the equivalent measure on the Earth's surface, often expressed as a representative fraction of distance, such as 1:24,000 (one unit of distance on the map represents 24,000 of the same units of distance on the Earth).	ESRI	Refer to valid values on template

Section 3: Business Data Specifications:

Data Element Name	The full name of the Data Element. Use NWCG Data Standard Name, if applicable
Abbreviation	The commonly used abbreviation for the data element name.
Description	A full narrative that describes the data element.
Required?	A designation as to whether the data element is mandatory or optional.
Length	The maximum allowable length for the raw data.
Data Type	The kind of data. Examples are: alphabetic, binary, numeric, alpha-numeric
Decimals	The maximum number of decimal places allowed.
Example	An example of the data that adheres to the rules included in this specification.
Data Standard Reference	The creator and name of the data standard. Also include a reference of where the data standard is published or a hyperlink to the appropriate website. If a data standard does not exist, the data steward should submit a data standard proposal to the NWCG DAWG.

Section 4: Discussion:

Additional information to support this GIS layer data standard.

Information about this NWCG Data Standard

Applicability

1. The Data Exchange Standards section represents the standard for representation of data files for data interchange.
2. This standard applies to all existing NWCG applications.
3. This standard applies to the acquisition of all applications software, whether commercial off-the-shelf (COTS) products, or custom-designed applications.

Provision for Waiver - A waiver may be granted by the NWCG DAWG for:

- Legacy applications that are able to achieve compliance by means other than the use of this standard
- Systems where the costs of implementing this standard are significantly higher than the benefits warrant

The requesting office shall draft an application to the NWCG DAWG for a waiver providing the reasons why the data standard should not be implemented in the information collection. This application shall contain:

   a.   An outline of the reasons why the data standard should not be implemented in the specific application.
   b.   A risk assessment and cost-effectiveness evaluation of continued operation in a non-compliant mode.
   c.   Approval of the waiver request by decision officials within the requesting office, if applicable.

The DAWG shall notify the requesting office in writing of the disposition of the waiver within 60 days of receipt.

Maintenance –
This standard is one of several applicable to all NWCG applications; as such, it will be reviewed, and the NWCG DAWG will schedule updates at designated intervals. Reviews shall occur at time intervals not to exceed 5 years.

For information regarding this standard, contact:

Allen Deitz   Phone: (208) 947-3742
Chair, NWCG Data Administration Working Group   FAX: (208) 947-3712
NWCG IRM Program Management Office   Email: allen_deitz@nifc.blm.gov
1387 South Vinnell Way
Boise, Idaho 83709-1657