

National Wildfire Coordinating Group GIS Data Layer Standard

Status: Draft Proposal Approved

Date: December 12, 2007

Section 1: Data Standard Information:

1. Layer Name:	Fuels Treatment (polygons)
2. Layer Abbreviation:	None
4. Layer Description:	Fuels Treatment represents the tract of land where a unique fuels treatment is accomplished for a particular fiscal year.
5. References:	NWCG Glossary, NFPORS Glossary, NFPORS Field Definitions
6. Data Stewardship Group	NWCG Geospatial Task Group (GTG) (in collaboration with the Rocky Mountain Geospatial Technology Committee)
7. Data Steward	GTG Data Steward (Bill Leenhouts)
8. System of Record	NFPORS
9. Custodian	Russell Berry

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	Open GIS Consortium Compliant (for example: Shapefile 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 (<i>Check one</i>)	<input type="checkbox"/> Grid	<input type="checkbox"/> Point	<input type="checkbox"/> Line	<input checked="" type="checkbox"/> Polygon	<input type="checkbox"/>	<input type="checkbox"/> Raster

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

<input type="checkbox"/>	<input type="checkbox"/> Geographic	<input type="checkbox"/>	<input type="checkbox"/> Planar	<input checked="" type="checkbox"/>	Any Horizontal Coordinate System and Datum is allowed, but must be clearly defined with all necessary parameters	
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		Albers		Lambert
		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		Other
3. Target Map Scale						
		Not Applicable	<input checked="" type="checkbox"/>	1:24,000	<input checked="" type="checkbox"/>	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
Treatment Identifier	TRT_ID	NFPORS unique identifier to treatments	Yes	7	Long		124578	NFPORS: Treatment Identifier
Treatment Local Identifier	TRT_LOCAL_ID	Local treatment identifier (User defined). A "hook" for local GIS applications.	No	50	String		COBLM034	NFPORS: Treatment Local Identifier
NWCG Unit Identifier	NWCG_UNIT_ID	Administrative unit where the fuels treatment occurred	Yes	7	String		AK-FAF	NWCG: Unit Identifier
Fuels Treatment Name	TRT_NM	Treatment Name	No	100	String		Unit 7 Thinning	NFPORS: Treatment Name
Treatment Status	TRT_STATUS	Status of the fuels treatment	Yes	12	String		Proposed Planned Initiated Accomplished Completed	None identified
Fiscal Year	FY	The fiscal year of the Treatment Status	Yes	4	Integer	0	2006	None identified
Treatment Type	TRT_TYPE	NFPORS Treatment type	No	50	String		Broadcast Burn Fire Use Hand Pile Burn Jackpot Burn Machine Pile Burn Biomass Removal Chipping Crushing Hand Pile Lop and Scatter Machine Pile Mastication/Mowing Seeding Thinning Preparation Biological Chemical Grazing Other	NFPORS: Type Name (TYPE_NAME)
Accomplished Date	ACC_DATE	Calendar date treatment was accomplished	No	8	Date		YYYYMMDD	NWCG: Date
Collection Date	COL_DATE	Collection date of fuels treatment polygon	Yes	8	Date		YYYYMMDD	NWCG: Date
Polygon Collection Method	COL_METH	Describes polygon collection method: GPS or on-screen digitized	No	25	String		GPS – Ground GPS – Air	None identified

Section 4: Discussion

1. Items listed as required identify the minimum Interagency/National expectation of attributing for fuels treatment layer. All of the items or fields must be included in the fuels treatment layer as defined in this standard. The required items must contain values other than null. 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.

Explanation of the GIS Layer Data Standard Template

Section 1: Data Standard Information:			
Field Name	Description	Source	Example(s)
Status <i>(To be filled out by the DAWG only)</i>	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.		<ul style="list-style-type: none"> • Draft • Proposed • Approved
Date	The date the document was submitted for review.		March 12, 2007
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.		<ul style="list-style-type: none"> • Fuels Treatment Polygons
Layer Abbreviation:	The short name or abbreviation for the Layer.		<ul style="list-style-type: none"> • FT (poly)
Layer Description:	A description of the map features captured within the GIS data set related to this standard.		Fuels Treatment polygons represent the tracts of land for planned or accomplished fuel treatments in a particular fiscal year.
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.		<ul style="list-style-type: none"> • NWCG Glossary • NFPORS Glossary • NFPORS Field Definitions
Data Stewardship Group	The organization(s) responsible for the accuracy of the attribute's definition.	NWCG DAWG Concept Paper	•
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	•
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	<ul style="list-style-type: none"> • NFPORS
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			
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	Geographic, Planar
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 Specifications:	
Data Element Name	The full name of the Data Element. Use NWCG Data Standard Name, if applicable
Data Element 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:

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