

NWCG Geospatial Data Layer Standard

Data Layer Standard Name	Fuels Treatments (polygon)
Status (DSTS Use Only)	Approved
Next Anticipated Review	
Review Expiration	
Approved	9/9/2014

Name & Description

Geospatial Data Layer Name	Fuels Treatments (polygon)
Abbreviation	FuelsTreatment
Description	The Fuels Treatment (polygon) data layer represents the area(s) of unique fuels treatments during a single timeframe. Each treatment may be made up of multiple polygons
Version	1

Contact Information

Data Standard Stewardship Group	NWCG Geospatial Subcommittee, NWCG Fuels Management Committee
Data Standard Steward (POC)	Joe Kafka - BIA NIFC

General Information

Source Standard	
System of Record	Treatment Identifier Source Database (e.g., NFPORS) for attributes data.
Additional Text	References include NWCG Glossary, NFPORS Glossary, NFPORS and FACTS Field Definitions
	Change Management Process Change proposals for this standard should be submitted to the NWCG Data Standards and Terminology Subcommittee Chair, http://www.nwcg.gov/branches/et/itc/subcommittees/subcommittees.htm
Discussion Papers Text	
Discussion Papers File	NFPORS_Definitions_091913.pdf, hfr_allhazfuelsdata_doi_currentNFPORS_HEADERS.xlsx, hfr_allhazfuelsdata_usda_currentNFPORS_HEADERS.xlsx, Excel_PivotTables.ppt, DRAFTproposedNWCG_Fuels_Treatment_Data_Standard_20110505_1200krh.doc, PNWCG_TRIWT_Proposal_Position_Paper_Fuels_Treatment_Data_Standard_030508.doc, GIS Layer Data Standard Template Polygon Fuels Treatment_PNW_Draft_Proposal_051407.doc, Rocky_Mountain_Fuels_Group_White_Paper_fuel_polygon_standards.doc

Geospatial Data

Background	Standard attributes for fuels treatments are needed for data transfer between agencies and for national interagency compilation of data.
Abstract	The fuels treatment standard identifies the minimum Interagency/National attribution for a fuels treatment data layer. Additional fields that are of interest to the local land management unit, or to a particular agency or bureau, may be appended to a local dataset.
Purpose	The purpose of the NWCG fuels treatment geospatial data layer standard is to facilitate data transfer and exchange between the interagency wildland fire community.

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Data Model	The NWCG fuels treatment geospatial data layer is represented as a polygon feature class or shapefile. Treatment perimeters may consist of one or more polygons and multiple polygons may not be contiguous.
Other Notes	The NWCG fuels treatment standard does not impede the use of agency-specific data standards with alternate field names and additional fields which are necessary to the local land management unit but maintaining data sets with the minimum NWCG fuels treatment standard attributes will help expedite data calls without extensive field editing.
Related Layers	The NWCG fuels treatment geospatial data layer standard contains attributes (fields) that are existing NWCG data standards, Unit Identifier and Date. Fuels treatment polygons for prescribed fires may also relate to fire history and fire occurrence data layers and databases.
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-standards-projects/accuracy/part3/chapter3 . NSSDA does not define threshold accuracy values. Agencies are encouraged to establish thresholds for their product specifications and applications and for contracting purposes. Ultimately, users identify acceptable accuracies for their applications. Data and map producers must determine what accuracy exists or is achievable for their data and report it (document) according to NSSDA.
	The target map scale should be 1:24,000 as a minimum for the contiguous US and 1:63,000 for Alaska.
Horizontal and/or Vertical Spatial Reference Information	Data layer projection parameters should be documented in a .prj file (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.

Geospatial Data Layer Standard Attributes & Attribute Definitions

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
NWCGUnitID	UnitID Un_ID	Yes	String	6	Code used in interagency wildland fire to uniquely identify a particular organizational unit (office administratively responsible for either managing incidents/projects, providing resources, or providing logistical services) within the government or a non-government organization recognized by NWCG as a wildland fire cooperator	NWCG (PMS 931: Unit Identifiers)	Unit Identifier
NFIRSUnitID	NFIRSUnitID	No	Integer	6	National Fire Incident Reporting System (NFIRS) fire department ID used to uniquely identify a non-federal organizational unit (office administratively responsible for either managing incidents, providing resources, or providing logistical services).	NFIRS ID	
MapMethod	Map_Method MapMeth DataSource	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; Other	
DateCurrent	DateCrnt EditDate RevDate	Yes	Date		The last edit, update, of this GIS record. Example: mm/dd/yyyy		Date
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). **	
TreatmentID	ACT_TRT_ID ActivityTreatmentID	Yes	String	50	Unique identifier for fuels treatment polygon(s). Generated from NFPORS, FACTS, or Local Database		
TreatmentIdentifierDatabase	TRT_ID_DB	Yes	String	25	The database containing additional information related to the treatment identifier (TreatmentID)	NFPORS; FACTS; Local; Other	
TreatmentName	ACT_TRT_NM ActivityTreatmentName	Yes	String	100	The name of the fuels treatment. (Official name from NFPORS, FACTS, or local activity unit for non-federal agencies). A null value is acceptable for USFS, as Treatment Name is not required in FACTS reporting.		

Geospatial Data Layer Standard Attributes & Attribute Definitions

Standard Name*	Alternate Name	Required?	Data Type	Size/ Width	Description	Values	Related NWCG Standard
TreatmentCategory	CAT_NM CategoryName	Yes	String	50	Describes major class of treatment. Preparation for Treatment domain value is included for historic/legacy data. (From NFPORS, FACTS, or local database for non-federal agencies)	Fire; Mechanical; N/A; Other; Preparation for Treatment	
TreatmentType	TYPE_NAME TypeName	Yes	String	50	Describes the kind of treatment work. Type is more specific than treatment category. (From NFPORS, FACTS, or local database for non-federal agencies) Category Fire: Broadcast Burn, Fire Use (historic), Hand Pile Burn, Jackpot Burn, Machine Pile Burn Category Mechanical: Biomass Removal, Chipping, Crushing, Hand Pile, Lop and Scatter, Machine Pile, Mastication, Mastication/Mowing, Thinning Category Other: Biological, Chemical, Grazing, N/A, Preparation, Seeding	Biological; Biomass Removal; Broadcast Burn; Chemical; Chipping; Crushing; Fire Use; Grazing; Hand Pile; Hand Pile Burn; Jackpot Burn; Lop and Scatter; Machine Pile; Machine Pile Burn; Mastication; Mastication/Mowing; N/A; Preparation; Seeding; Thinning	
ActualCompletionDate	ACT_CMP_DT DATE_COMPLETE D	Yes	Date	8	Date when treatment was physcially completed. Example: YYYYMMDD		Date
TreatmentAcres	GIS_ACRES ActualAcr CompleteAc	Yes	Integer	11	Acreage of treatment polygon as calculated with GIS		
TreatmentStatus	ACT_TRT_ST TreatStat	Yes	String	12	Status of the fuels treatment polygon(s). Generated from a query of NFPORS, FACTS, or Local database attributes (planned date, initiated date (DOI only), accomplished date (USFS only), and completed date). "Accomplished" should only be used by the USFS. Accomplished indicates that a contract was awarded. It may also indicate the completion of work done by Forest Service crews and equipment.	Planned; Initiated; Accomplished; Completed	

*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.

** GUIDs are unique specially formatted numeric strings generated by a “GUID generation tool.” GUIDs can be generated at <http://www.guidgenerator.com/>