



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Oregon State Office

P.O. Box 2965

Portland, Oregon 97208

**In Reply Refer to:**

1283/8550 (OR955/OR932) P

June 16, 2011

EMS TRANSMISSION 06/17/2011

Instruction Memorandum No. OR-2011-055

Expires: 9/30/2012

To: DMs, DSDs, Staff and Branch Chiefs

From: State Director, Oregon/Washington

Subject: Wilderness Study Areas Spatial Data Standard

**Program Area:** Wilderness Management.

**Purpose:** This instruction memorandum (IM) reissues the attached Wilderness Study Areas (WSA) Data Standard previously issued under the IM OR-2008-072. The data standard defines how this type of data is to be captured in a geographic information system (geodatabase), defines attributes used, and defines coding schemes (domains).

**Policy/Action:** This data standard is to be followed for all WSA geospatial data. The WSA data should be reviewed by all field offices and any needed corrections and/or additions made through established editing procedures.

**Timeframe:** This data standard is effective immediately.

**Budget Impact:** None.

**Background:** All offices have a need for accurate and up-to-date spatial data for WSA. In order for that to happen, the data needs to be standardized so it can be made available in the corporate edit environment. This data standard is an update to, and replaces, IM OR-2008-072.

**Manual/Handbook Sections Affected:** None.

**Coordination:** This standard was reviewed by Oregon/Washington (OR/WA) offices at the time of its original development (OR-2006-009). Since no data content changes were made with this update, it was only reviewed by the OR/WA Data Steward for WSA.

**Contact:** If you have any questions, please contact Pamela Keller, GIS Technical Support, at 541-573-4486, or Stanley Frazier, State Data Administrator, at 503-808-6009.

**Districts with Unions** are reminded to notify their unions of this IM and satisfy any bargaining obligations before implementation. Your servicing Human Resources Office or Labor Relations Specialist can provide you assistance in this matter.

Signed by  
Michael S. Mottice  
Associate State Director

Authenticated by  
Paj Shua Cha  
Records Section

Attachment  
Wilderness Study Areas Data Standard (38 pp)

Distribution  
OC530 (Tom Chatfield)

Bureau of Land Management Oregon/Washington

# WILDERNESS STUDY AREAS

## Data Standard

June 13, 2011



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# 1. GENERAL INFORMATION

Data Set (Theme) Name: Wilderness Study Areas (WSA)

Data Set (Feature Class): WSA

## 1.1 ROLES AND RESPONSIBILITIES

Roles	Responsibilities
State Data Steward	The State Data Steward, Jerry Magee, is responsible for approving data standards and business rules for data themes they are responsible for, for developing quality assurance/quality control procedures, and ensuring that data is managed as a corporate resource. The State Data Steward coordinates with field office data stewards, the state data administrator, Geographic Information System (GIS) coordinators, and with national data stewards. The State Data Steward reviews geospatial metadata for completeness and quality.
Lead GIS Specialist	The Lead GIS Specialist, Pamela Keller, works with data stewards to interpret business needs into GIS applications and derive data requirements and participates in the development of data standards. The GIS specialist coordinates with system administrators and GIS coordinators to manage the GIS databases.
State Data Administrator	The State Data Administrator, Stanley Frazier, provides information management leadership, data modeling expertise, and custodianship of the state data models. The State Data Administrator ensures that defined processes for development of data standards and metadata are followed and that they are consistent and complete. The data administrator is responsible for making data standards and metadata accessible to all users. The data administrator coordinates with data stewards and GIS coordinators to respond to national spatial data requests.
State Records Administrator	The State Records Administrator, Sherrie Reid, is responsible for identifying any Privacy issues related to spatial data. The records administrator also provides direction and guidance on data release and fees. The records administrator assures that data has been classified under the proper records retention schedule and determine appropriate Freedom of Information Act (FOIA) category.

**Table 1 Role and Responsibilities**

## 1.2 FOIA CATEGORY

Public.

## 1.3 RECORDS RETENTION SCHEDULE(s)

20/52c (Geographic Information Systems)

20/53c (Electronic Records Inventory and Survey File)

## 1.4 PERMANENT

Cutoff end of fiscal year (EOFY) in which the layer is created or significantly altered by the Bureau of Land Management (BLM). Transfer copy of data to National Archives and Records Administration at the EOFY.

## 1.5 SECURITY/ACCESS/SENSITIVITY

The WSA set of themes do not require any additional security other than that provided by the General Support System (the hardware/software infrastructure of the Oregon/Washington (OR/WA) BLM).

This data is not sensitive and there are no restrictions on access to this data either from within the BLM or external to the BLM.

There are no privacy issues or concerns associated with these data themes.

## 2. DATA SET OVERVIEW

### 2.1 DESCRIPTION

This data set represents WSA boundaries as inventoried in the mid-1980's and defined in the October 1991 "Wilderness Study Report". The WSA's are essentially road less areas under BLM jurisdiction. The WSAs have special management restrictions and priorities.

### 2.2 USAGE

This data set is used for depicting the WSA on maps. Polygons created from the data are used for various analytical purposes, including clipping data and calculating acreage.

### 2.3 SPONSOR/AFFECTED PARTIES

The sponsor for this data set is the Deputy State Director, Management Services. A WSA is defined by and specific to BLM. Matching interagency data across the landscape is not necessary. Our non- governmental partners and the general public are affected to the extent that WSA indicates management responsibility on BLM lands.

### 2.4 DATA CATEGORY/ARCHITECTURE

These data themes are a portion of the Oregon Data Framework (ODF). The ODF utilizes the concept of inheritance to define specific instances of data. The ODF divides all OR/WA resource-related data into

three general categories: Activities, Resources, and Boundaries. These general categories are broken into sub-categories that inherit spatial characteristics and attributes from their parent category. These sub-categories may be further broken into more specific groups until you get to a basic data set that cannot be further sub-divided. Those basic data sets inherit all characteristics of all groups/categories above them. The basic data sets are where physical data gets populated (those groups/categories above them do not contain actual data but set parameters that all data of that type must follow).

See the ODF Overview, Figure 2, for a simplified schematic of the entire Oregon Data Model showing the overall organization and entity inheritance. For additional information about the ODF, contact:

OR/WA State Data Administrator  
Stanley Frazier  
Bureau of Land Management  
P.O. Box 2965  
Portland, OR 97208

#### 2.4.1 WSA DATA ORGANIZATION/STRUCTURE

For WSA, the categories/groups that the data set are part of are:

BLM WSA Polygon:

ODF

Boundaries

Political & Admin

Political & Admin Existing

WSA\_POLY

BLM WSA Line:

ODF

Boundaries

Political Administrative Special Management Area Line

WSA\_ARC

#### 2.4.2 RELATIONSHIP TO THE DEPARTMENT OF THE INTERIOR ENTERPRISE ARCHITECTURE - DATA RESOURCE MODEL

The Department of the Interior's (DOI) Enterprise Architecture contains a component called the Data Resource Model. This model addresses the concepts of Data Sharing, Data Description, and Data Context. This data standard provides information needed to address each of those areas. Data sharing is addressed through complete documentation and simple data structures which make sharing easier. Data description is addressed through the section on Attribute Descriptions. Data context is addressed through the data organization and structure portions of this document. In addition, the DOI Data Resource Model categorizes data by use of standardized Data Subject Areas and Information Classes. For this data set, these are as follows:

- Data Subject Area: Recreation
- Information Class: Recreation Inventory

For a complete list of all DOI Data Subject Areas and Information Classes contact:

OR/WA State Data Administrator

Stanley Frazier

Bureau of Land Management

P.O. Box 2965

Portland, OR 97208

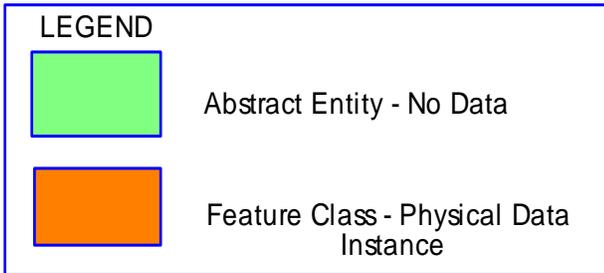
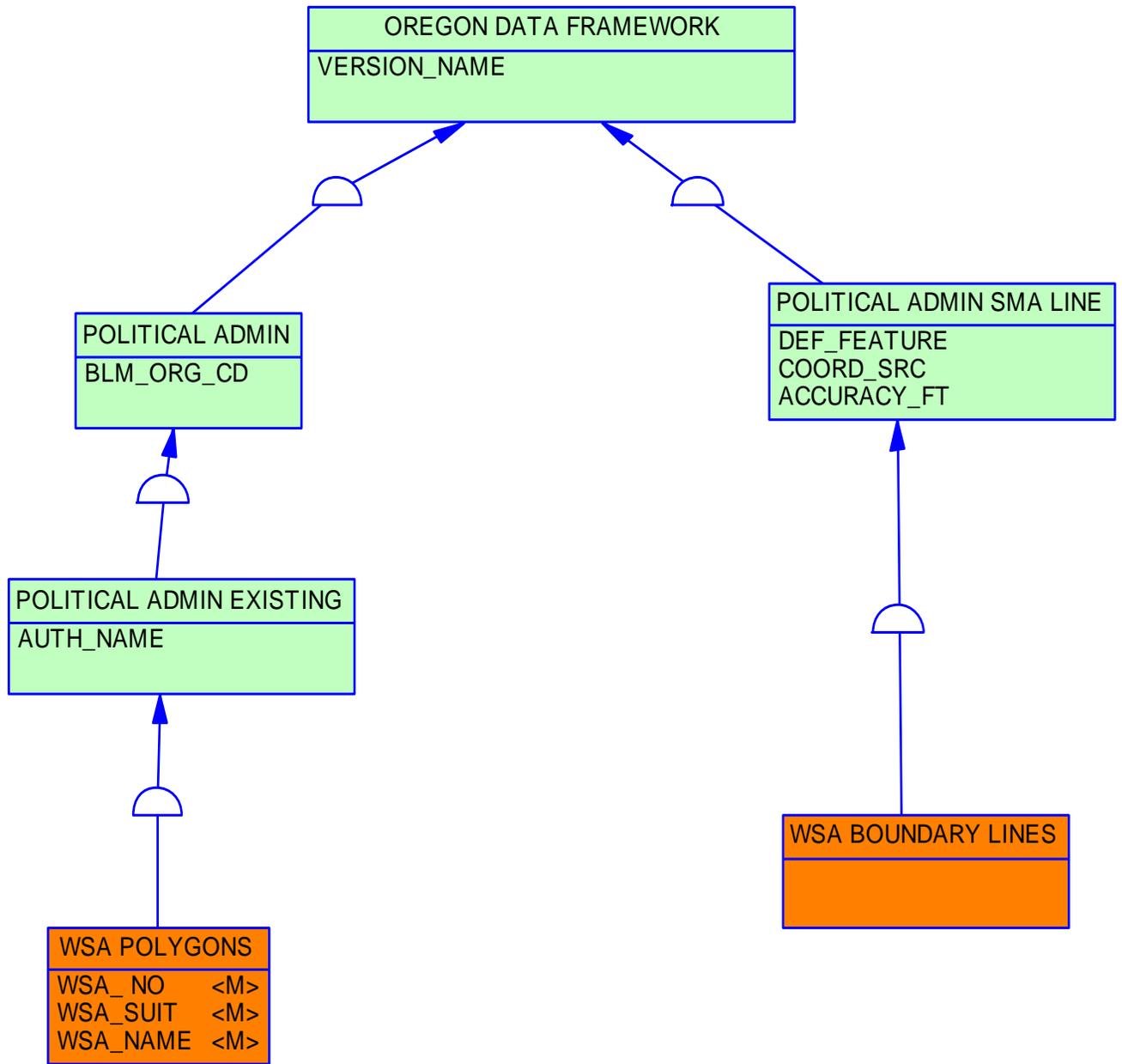


Figure 1 Data Organization/Structure

## 3. DATA MANAGEMENT PROTOCOLS

### 3.1 ACCURACY REQUIREMENTS

A high level of positional and attribute accuracy is required for the WSA theme. Much of BLM's management hinges on accurate boundaries for their special management areas, especially WSAs. Boundary features are input and maintained with the highest level of accuracy possible short of surveying.

### 3.2 COLLECTION, INPUT AND MAINTENANCE PROTOCOLS

The WSAs were inventoried in the late 1970's and early 1980's and no broad scale re-inventory of WSAs is expected in the future. As per the Utah Wilderness Settlement Agreement (2003), no additional WSAs are expected to be designated in the future. Existing WSAs are essentially static data until Congress passes legislation designating WSAs as wilderness or releasing them from further wilderness consideration. There is no established deadline for Congressional action on wilderness recommendations. The WSA boundaries were manuscripted onto United States Geologic Survey (USGS) 7.5 minute quads. The lines were annotated with their associated source feature (e.g., "PARCEL" or "RIDGELINE"). Boundaries were captured in GIS using these reference maps and the most accurate GIS themes available: Geographic Coordinate Data Base for parcel segments; 24K Digital Line Graphs (DLG) for roads and streams; Digital Raster Graphic backdrop for heads-up digitizing of contours, fences, power lines; Digital Orthophoto Quad backdrop for disturbances such as mines). The Wilderness Study Report was also used as a reference for boundary descriptions as well as the draft report which has slightly larger scale (more detailed) maps than the final. Polygons and arcs were attributed according to the reference maps and documents. Many boundaries follow road disturbance rather than road centerline. Where a road right-of-way (ROW) is defined, this is used as the boundary. Most roads had no defined ROW and so an assumed disturbance of 10 feet from center was used. Road segments from the GIS layer were buffered in GIS to the disturbance radius and the inside buffer line used for the WSA boundary.

### 3.3 UPDATE FREQUENCY AND ARCHIVAL PROTOCOLS

The unit of processing for the WSA theme is the full theme. Updates should be rare and fall into one of three scenarios:

1. New localized inventory (not expected). Boundaries should be manuscripted onto 7.5 minute quads using the same process as original inventory.
2. Replacement of boundary line work when more accurate GIS themes become available.
3. Congressional wilderness legislation which designates wilderness areas from WSAs, or releases WSAs from future wilderness consideration.

Because the WSA theme is relatively static data, the main quality assurance work has been completed. Any changes to the WSA theme need to be directed through the State Data Steward for approval. District WSA Stewards should make changes on a copy of the corporate WSA theme and send to the State Data Steward (who will be responsible for the actual update to the corporate theme). Regular review of the WSA theme is not needed since there will be close review at the time of any change.

It will be the responsibility of the State Data Steward to provide Oregon's WSA theme to the Washington Office (Denver) in the proper format for inclusion in the national WSA theme.

## 4. WSA SCHEMA (simplified)

General Information: Attributes are listed in the order they appear in the geodatabase feature class. The order is an indication of the importance of the attribute for theme definition and use. There are no aliases unless specifically noted. The domains used in this data standard can be found in Appendix A. These are the domains at the time the data standard was approved. Domains can be changed without a re-issue of the data standard. For a complete list of domains, contact:

OR/WA State Data Administrator  
Stanley Frazier  
Bureau of Land Management  
P.O. Box 2965  
Portland, OR 97208

### 4.1 WSA DATASET

#### 4.1.1 WSA\_Poly (Wilderness Study Area Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
WSA_NAME	String	50		Yes	dom_WSA_NAME
WSA_NO	String	10		Yes	dom_WSA_NO
WSA_SUIT	String	1		Yes	dom_EVAL
BLM_ORG_CD	String	5		Yes	dom_BLM_ORG_CD
AUTH_NAME	String	80			
VERSION_NAME	String	50	Initial Load	Yes*	

#### 4.1.2 WSA\_Arc (Wilderness Study Area Lines)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
DEF_FEATURE	String	25		Yes	dom_DEF_FEATURE
COORD_SRC	String	7		Yes	dom_COORD_SRC
ACCURACY_FT	Short Integer				
VERSION_NAME	String	50	Initial Load	Yes*	

\* Values automatically generated

## 5. PROJECTION AND SPATIAL EXTENT

All feature classes and feature data sets are in Geographic, North American Datum 83. Units are decimal degrees. Spatial extent (area of coverage) includes all lands in OR/WA. See the metadata for this data set for more precise description of the extent. In order to maintain consistent acres reporting, WSA should be projected into Universal Transverse Mercator in the appropriate zone for acres calculation.

### 5.1 SPATIAL ENTITY CHARACTERISTICS

#### WILDERNESS STUDY AREA POLYGON (WSA\_POLY)

Description: Instance of Political & Admin Existing group.

Geometry: Polygons do not cover the landscape nor do they cover all BLM lands continuously. In addition, there may be islands ("donut holes") of Non-WSA surrounded by WSA.

Topology: Yes. The WSA\_POLY lines are coincident with WSA\_ARC lines and together make the feature dataset, WSA.

Integration Requirements: None.

#### WILDERNESS STUDY AREA LINE (WSA\_ARC)

Description: Instance of Existing Political Admin Special Management Area Line group.

Geometry: Simple, non-overlapping lines that are split between endpoints as needed.

Topology: Yes. The WSA\_POLY lines are coincident with WSA\_ARC lines and together make the feature dataset, WSA.

Integration Requirements: Line segments must be coincident with the source data indicated by attributes DEF\_FEATURE and COORD\_SRC either through duplication or snapping.

## 6. ATTRIBUTE CHARACTERISTICS AND DEFINITIONS

(In alphabetical order)

### 6.1 Attribute: ACCURACY\_FT

Geodatabase Name	ACCURACY_FT
BLM Structured Name	ACCURACY_FEET_MEASURE
Notes	Inherited from Entity POLITICAL ADMIN SMA LINE  Used in Feature Classes:  WSA_ARC

Domain	<None>
Data Type	SI
Length	
Precision	

### Description

[Optional]

How close, in feet, the spatial GIS depiction is to the actual location on the ground. There are several factors to consider in GIS error: scale and accuracy of map-based sources, accuracy of Global Positioning System (GPS) equipment, and the skill level of the data manipulators. A value of '0' indicates no entry was made. This is the correct value when the COORD\_SOURCE is another GIS theme DLG, Geographic Coordinate Database (GCD), Digital Elevation Model (DEM) because the accuracy is determined by that theme. If COORD\_SOURCE is Management Action Plan (MAP) or GPS, however, a value of '0' indicates a missing value that should be filled in either with a non-zero number or '-1'. A value of '-1' indicates that the accuracy is unknown and no reliable estimate can be made.

**6.2 Attribute: AUTH\_NAME**

Geodatabase Name	AUTH_NAME
BLM Structured Name	AUTHORITY_TEXT
Notes	Inherited from Entity POLITICAL & ADMIN EXISTING  Used in Feature Class:  WSA_POLY
Domain	<None>
Data Type	VA80
Length	80
Precision	

Description

[Optional]

The complete official name of the act/law/order/instruction that established or changes the boundary, e.g., "Steens Mountain Cooperative Management and Protection Act of 2000, Public Law 106-399." The authorizing entity and the effective date are required.

**6.3 Attribute: BLM\_ORG\_CD**

Geodatabase Name	BLM_ORG_CD
BLM Structured Name	ADMINSTRATIVE_UNIT_ORGANIZATION_CODE
Notes	Inherited from Entity POLITICAL AND ADMIN  Domain is a subset of the BLM national domain for organization codes. Only the first five characters of the national code are used. To see the complete list go to:  <a href="http://ilmniop3ap6/datashopper/ENT_ELEM_detail.asp?tid=100118&amp;entnm=ENT+ELEM&amp;eid=258899673&amp;name=ORGANIZATION+CODE">http://ilmniop3ap6/datashopper/ENT_ELEM_detail.asp?tid=100118&amp;entnm=ENT+ELEM&amp;eid=258899673&amp;name=ORGANIZATION+CODE</a>

	Used in Feature Classes: WSA_POLY
Domain	dom_BLM_ORG_CD
Data Type	A5
Length	5
Precision	

Description

[Required]

Combination of the BLM State, District and field office which has administrative responsibility. One district may have administrative responsibility over a WSA that is partially located in a neighboring district.

Examples:

- ORL05 Lakeview Resource Area, Lakeview District, OR/WA BLM
- ORB05 Three Rivers Resource Area, Burns District, OR/WA BLM
- ORS05 Marys Peak Resource Area, Salem District, OR/WA BLM
- ORB00 Burns District, OR/WA BLM

**6.4 Attribute: COORD\_SRC**

Geodatabase Name	COORD_SRC
BLM Structured Name	COORDINATE_SOURCE_CODE
Notes	Inherited from Entity POLITICAL ADMIN SMA LINE  Used in Feature Classes: WSA_ARC
Domain	dom_COORD_SRC
Data Type	A7

Length	7
Precision	

Description

[Required]

The actual source of the GIS coordinates for the line segments.

Examples: GCD, DEM, DLG, SOURCEC, MAP.

**6.5 Attribute: DEF\_FEATURE**

Geodatabase Name	DEF_FEATURE
BLM Structured Name	DEFINING_FEATURE_CODE
Notes	Inherited from Entity POLITICAL ADMIN SMA LINE  Used in Feature Classes:  WSA_ARC
Domain	dom_DEF_FEATURE
Data Type	VA25
Length	25
Precision	

Description

[Required]

The physical or legal feature that defines the boundary according to the legal boundary description. In general the lowest level defining feature, but it depends on how the boundary segment is actually defined. For example, SUBDIVISION rather than COUNTY unless the boundary segment is specifically defined as following the COUNTY boundary. By far the most common defining features for WSA boundaries are SUBDIVISION and ROAD\_OFFSET.

Examples: SUBDIVISION, POINT-TO-POINT, WATERCOURSE, RIDGE, SHORELINE, FENCE, RIGHT-OF-WAY, ROAD\_OFFSET, ROAD, POWERLINE, LAVA, MINERAL DISTURBANCE.

**6.6 Attribute: VERSION\_NAME**

Geodatabase Name	VERSION_NAME
BLM Structured Name	GEODATABASE_VERSION_TEXT
Notes	Inherited from Entity Oregon Data Framework.  Only appears in the transactional (edit) version. Public version (which is also the version used internally for mapping or analysis) does not contain this attribute.  Used in Feature Classes:  WSA_POLY  WSA_ARC
Domain	<None>
Data Type	VA50
Length	50
Precision	

Description

[Required]

Name of the corporate geodatabase version previously used to edit the record.

Initial Load = feature has not been edited in ArcSDE.

Format: username.XXX-mmddyy-hhmmss = version name of last edit (hours might be a single digit; leading zeros are trimmed for hours only). XXX=theme abbreviation.

**6.7 Attribute: WSA\_NO**

Geodatabase Name	WSA_NO
BLM Structured Name	WILDERNESS_STUDY_AREA_NO

Notes	Not Inherited
	Used in Feature Class: WSA_POLY
Domain	dom_WSA_NO
Data Type	VA10
Length	10
Precision	

Description

[Required]

A unique identifier for each WSA. These identifiers are unique within each BLM administrative state. This attribute also provides information about areas within a WSA that are not part of the WSA for some reason. Possible reason may include roads that have been excluded (cherry-stemmed), private lands, and other lands that do not exhibit wilderness characteristics.

**6.8 Attribute: WSA\_NAME**

Geodatabase Name	WSA_NAME
BLM Structured Name	WILDERNESS_STUDY_AREA_NAME
Notes	Not Inherited
	Used in Feature Class: WSA_POLY
Domain	dom_WSA_NAME
Data Type	A50
Length	50
Precision	

Description

[Required]

The name used to identify the WSA. Non-WSA islands are not attributed with a name, but private and State inholdings are labeled with "inholding."

### 6.9 Attribute: WSA\_SUIT

Geodatabase Name	WSA_SUIT
BLM Structured Name	WILDERNESS_SUITABILITY_CODE
Notes	Not Inherited  Used in Feature Class:  WSA_POLY
Domain	dom_EVAL
Data Type	A1
Length	1
Precision	

#### Description

[Required]

Identifies whether the WSA is recommended suitable for wilderness designation.

Y - The unit meets criteria.

N - The unit does not meet criteria.

X - The unit was not evaluated because it was not applicable.

U - Criteria were not evaluated.

## 7. ASSOCIATED FILES OR DATABASES

None.

## 8. LAYER FILES (PUBLICATION VIEWS)

Layer files will be created through scripts that can be automatically executed. Layer files do not require storage and maintenance of additional data and can be deleted and recreated at any time. Layer files (since they are derivative products) are not master corporate data (they can be easily rebuilt if necessary). Layer files may be added in the future without documenting them in this document.

## 9. EDITING PROCEDURES (TO BE ADDED LATER)

Cluster Tolerance – Must be very small, equivalent to one foot

Topology Rules

Allowed Exceptions

Reference Themes and Tables

Editing Symbology

Editing Workflow

Snapping Guidelines

Ranks

Tolerances

"Do's and Don'ts"

Quality Control Checklist

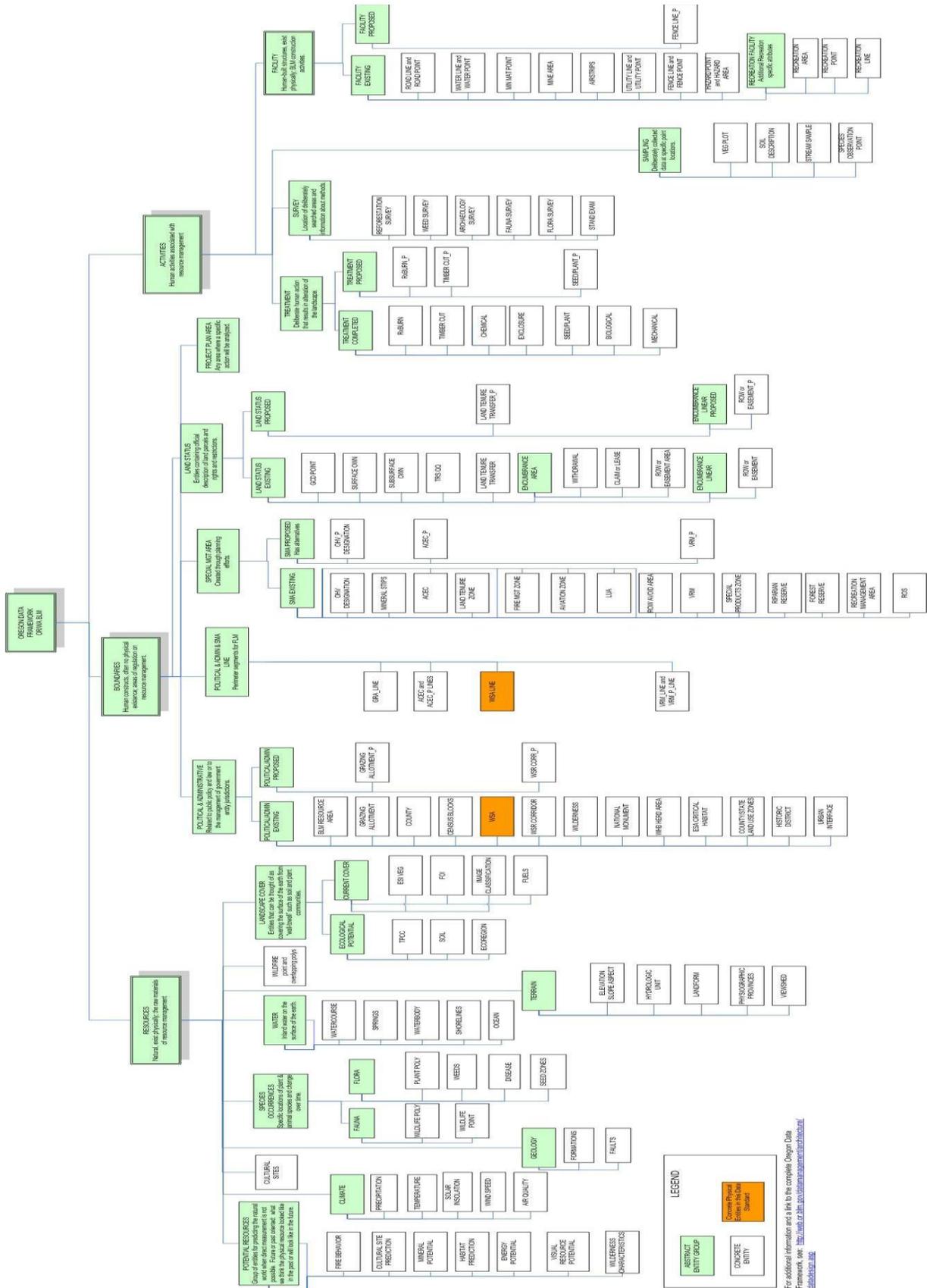


Figure 2 ODF Overview

For additional information and a full file to the complete Oregon Data Framework, see: <http://web.dln.gov/data/management/odf.html>

## 10. ABBREVIATIONS AND ACRONYMS USED IN THIS STANDARD

(Does not include abbreviations/acronyms used as codes for particular data attributes)

Abbreviations	Descriptions
BLM	Bureau of Land Management
DEM	Digital Elevation Model
DLG	Digital Line Graphs
FOIA	Freedom of Information Act
GCD	Geographic Coordinate Database
GIS	Geographic Information System
GNIS	Geographic Names Information System
IDP	Interdisciplinary
NAD	North American Datum
NARA	National Archives and Records Administration
ODF	Oregon Data Framework
OR/WA	Oregon / Washington
RMP	Resource Management Plan
SDE	Spatial Data Engine
SMA	Special Management Area
WSA	Wilderness Study Area

Table 2 Abbreviations/Acronyms Used

## A. DOMAINS (VALID VALUES)

The domains listed below are those that were in effect at the time the data standard was approved and may not be current. Contact the State Data Administrator for current lists:

OR/WA State Data Administrator  
 Stanley Frazier  
 Bureau of Land Management  
 P.O. Box 2965  
 Portland, OR 97208

### A.1 Domain: BLM Organization Code

CA000	California BLM
CAN01	Northern California District Office
CAN02	Alturas Field Office
CAN03	Arcata Field Office
CAN06	Redding Field Office
CAN07	Surprise Field Office
ID000	Idaho BLM
IDB00	Boise District Office
IDB01	Four Rivers Field Office
IDB03	Owyhee Field Office
IDC00	Coeur d Alene District Office
IDC01	Coeur d Alene Field Office
IDC02	Cottonwood Field Office
NV000	Nevada BLM
NVE00	Elko District Office
NVE02	Tuscarora Field Office

NVW00	Winnemucca District Office
NVW01	Humboldt River Field Office
OR000	Oregon/Washington BLM
ORB00	Burns District Office
ORB05	Three Rivers Field Office
ORB06	Andrews Field Office
ORC00	Coos Bay District Office
ORC03	Umpqua Field Office
ORC04	Myrtlewood Field Office
ORE00	Eugene District Office
ORE05	Siuslaw Field Office
ORE06	Upper Willamette Field Office
ORL00	Lakeview District Office
ORL04	Klamath Falls Field Office
ORL05	Lakeview Field Office
ORM00	Medford District Office
ORM05	Butte Falls Field Office
ORM06	Ashland Field Office
ORM07	Grants Pass Field Office
ORM08	Glendale Field Office
ORP00	Prineville District Office
ORP04	Central Oregon Field Office
ORP06	Deschutes Field Office

ORR00	Roseburg District Office
ORR04	Swiftwater Field Office
ORR05	South River Field Office
ORS00	Salem District Office
ORS04	Cascades Field Office
ORS05	Marys Peak Field Office
ORS06	Tillamook Field Office
ORV00	Vale District Office
ORV04	Malheur Field Office
ORV05	Baker Field Office
ORV06	Jordan Field Office
ORW00	Spokane District Office
ORW02	Wenatchee Field Office
ORW03	Border Field Office

## A.2 Domain: Coordinate Source Code

CFF	Lines duplicated or buffered from Cartographic Feature Files (USFS)
DEM	Digital Elevation Model (30 m or better accuracy) used for creation of contours
DLG	Lines duplicated or buffered from (24K scale accuracy) USGS Digital Line Graphs Typical Accuracies: 40 feet
GCD	Lines snapped to Geographic Coordinate Database Points

UNK	Unknown coordinate source
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### A.3 Domain: Defining Feature Code

FENCE	Fence line
LAVA	Edge of lava flow
MINERAL_DISTURBANCE	Edge of quarry, mine, gravel stockpile or other mineral surface disturbance area
NLCS_BOUNDARY	Wilderness, Wild and Scenic River, Historic District or other NLCS designation boundary
POINT-TO-POINT	Boundary defined by a straight line segment between two points
POWERLINE	Power transmission line or buffer offset
RIGHT-OF-WAY	A legal right of way forms boundary
ROAD	Routes managed for use by low or high-clearance (4WD) vehicles, but not ATVs 9/17/200
ROAD_OFFSET	Boundary is offset from a road (not a consistent buffer)
SHORELINE	Lake, pond, reservoir, bay or ocean shoreline or meander line
SUBDIVISION	Public Land Survey System derived aliquot (1/2s, 1/4s) parts and lots
UNKNOWN	Defining feature is unknown
WATERCOURSE	Stream, river, ditch, canal or drainage centerline

### A.4 Domain: Unit Evaluation Code

N	No The unit does not meet criteria
U	Unknown Criteria was not evaluated
X	Not Applicable The unit was not evaluated because it was not applicable
Y	Yes The unit meets criteria

**A.5 Domain: Wilderness Study Area Name**

Abert Rim WSA	Abert Rim WSA
Aldrich Mountain WSA	Aldrich Mountain WSA
Alvord Desert WSA	Alvord Desert WSA
Badlands WSA	Badlands WSA
Basque Hills WSA	Basque Hills WSA
Beaver Dam Creek WSA	Beaver Dam Creek WSA
Blitzen River WSA	Blitzen River WSA
Blue Canyon WSA	Blue Canyon WSA
Bowden Hills WSA	Bowden Hills WSA
Bridge Creek WSA	Bridge Creek WSA
Camp Creek WSA	Camp Creek WSA
Castle Rock WSA	Castle Rock WSA
Cedar Mountain WSA	Cedar Mountain WSA
Chopaka Mountain WSA	Chopaka Mountain WSA
Clarks Butte WSA	Clarks Butte WSA
Cottonwood Creek WSA	Cottonwood Creek WSA
Cougar Well WSA	Cougar Well WSA
Deschutes Canyon WSA	Deschutes Canyon WSA
Abert Rim WSA	Abert Rim WSA
Aldrich Mountain WSA	Aldrich Mountain WSA
Alvord Desert WSA	Alvord Desert WSA
Badlands WSA	Badlands WSA

Basque Hills WSA	Basque Hills WSA
Beaver Dam Creek WSA	Beaver Dam Creek WSA
Blitzen River WSA	Blitzen River WSA
Blue Canyon WSA	Blue Canyon WSA
Bowden Hills WSA	Bowden Hills WSA
Bridge Creek WSA	Bridge Creek WSA
Camp Creek WSA	Camp Creek WSA
Castle Rock WSA	Castle Rock WSA
Cedar Mountain WSA	Cedar Mountain WSA
Chopaka Mountain WSA	Chopaka Mountain WSA
Clarks Butte WSA	Clarks Butte WSA
Cottonwood Creek WSA	Cottonwood Creek WSA
Cougar Well WSA	Cougar Well WSA
Deschutes Canyon WSA	Deschutes Canyon WSA
Abert Rim WSA	Abert Rim WSA
Aldrich Mountain WSA	Aldrich Mountain WSA
Alvord Desert WSA	Alvord Desert WSA
Badlands WSA	Badlands WSA
Basque Hills WSA	Basque Hills WSA
Beaver Dam Creek WSA	Beaver Dam Creek WSA
Blitzen River WSA	Blitzen River WSA
Blue Canyon WSA	Blue Canyon WSA
Bowden Hills WSA	Bowden Hills WSA

Bridge Creek WSA	Bridge Creek WSA
Camp Creek WSA	Camp Creek WSA
Castle Rock WSA	Castle Rock WSA
Cedar Mountain WSA	Cedar Mountain WSA
Chopaka Mountain WSA	Chopaka Mountain WSA
Clarks Butte WSA	Clarks Butte WSA
Cottonwood Creek WSA	Cottonwood Creek WSA
Cougar Well WSA	Cougar Well WSA
Deschutes Canyon WSA	Deschutes Canyon WSA
Abert Rim WSA	Abert Rim WSA
Aldrich Mountain WSA	Aldrich Mountain WSA
Alvord Desert WSA	Alvord Desert WSA
Badlands WSA	Badlands WSA
Basque Hills WSA	Basque Hills WSA
Beaver Dam Creek WSA	Beaver Dam Creek WSA
Blitzen River WSA	Blitzen River WSA
Blue Canyon WSA	Blue Canyon WSA
Bowden Hills WSA	Bowden Hills WSA
Bridge Creek WSA	Bridge Creek WSA
Camp Creek WSA	Camp Creek WSA
Castle Rock WSA	Castle Rock WSA
Cedar Mountain WSA	Cedar Mountain WSA
Chopaka Mountain WSA	Chopaka Mountain WSA

Clarks Butte WSA	Clarks Butte WSA
Cottonwood Creek WSA	Cottonwood Creek WSA
Cougar Well WSA	Cougar Well WSA
Deschutes Canyon WSA	Deschutes Canyon WSA
Abert Rim WSA	Abert Rim WSA
Aldrich Mountain WSA	Aldrich Mountain WSA
Alvord Desert WSA	Alvord Desert WSA
Badlands WSA	Badlands WSA
Basque Hills WSA	Basque Hills WSA
Beaver Dam Creek WSA	Beaver Dam Creek WSA
Blitzen River WSA	Blitzen River WSA
Blue Canyon WSA	Blue Canyon WSA
Bowden Hills WSA	Bowden Hills WSA
Bridge Creek WSA	Bridge Creek WSA
Camp Creek WSA	Camp Creek WSA
Castle Rock WSA	Castle Rock WSA
Cedar Mountain WSA	Cedar Mountain WSA
Chopaka Mountain WSA	Chopaka Mountain WSA
Clarks Butte WSA	Clarks Butte WSA
Cottonwood Creek WSA	Cottonwood Creek WSA
Cougar Well WSA	Cougar Well WSA
Deschutes Canyon WSA	Deschutes Canyon WSA
Deschutes Canyon WSA - FS	Deschutes Canyon WSA - FS

Deschutes Canyon-Steelhead Falls WSA	Deschutes Canyon-Steelhead Falls WSA
Devils Garden Lava Bed WSA	Devils Garden Lava Bed WSA
Diablo Mountain WSA	Diablo Mountain WSA
Disaster Peak WSA	Disaster Peak WSA
Dry Creek Buttes WSA	Dry Creek Buttes WSA
Dry Creek WSA	Dry Creek WSA
East Alvord WSA	East Alvord WSA
Fifteenmile Creek WSA	Fifteenmile Creek WSA
Fish Creek Rim WSA	Fish Creek Rim WSA
Four Craters Lava Bed WSA	Four Craters Lava Bed WSA
Gerry Mountain WSA	Gerry Mountain WSA
Gold Creek WSA	Gold Creek WSA
Guano Creek WSA	Guano Creek WSA
Hampton Butte WSA	Hampton Butte WSA
Hawk Mountain WSA	Hawk Mountain WSA
Heath Lake WSA	Heath Lake WSA
High Steens WSA	High Steens WSA
Home Creek WSA	Home Creek WSA
Homestead WSA	Homestead WSA
Honeycombs WSA	Honeycombs WSA
inholding	inholding
Jordan Craters WSA	Jordan Craters WSA
Lookout Butte WSA	Lookout Butte WSA

Lost Forest ISA	Lost Forest ISA
Lower John Day WSA	Lower John Day WSA
Lower Owyhee Canyon WSA	Lower Owyhee Canyon WSA
Lower Stonehouse WSA	Lower Stonehouse WSA
Mahogany Ridge WSA	Mahogany Ridge WSA
Malheur River-Bluebucket WSA	Malheur-Bluebucket WSA
McGraw Creek WSA	McGraw Creek WSA
Mountain Lakes WSA	Mountain Lakes WSA
North Fork WSA	North Fork WSA
North Fork WSA - FS	North Fork WSA - FS
North Pole Ridge WSA	North Pole Ridge WSA
NV-Disaster Peak WSA	NV-Disaster Peak WSA
Oregon Canyon WSA	Oregon Canyon WSA
Orejana Canyon WSA	Orejana Canyon WSA
Owyhee Breaks WSA	Owyhee Breaks WSA
Owyhee River Canyon WSA	Owyhee River Canyon WSA
Palomino Hills WSA	Palomino Hills WSA
Pats Cabin WSA	Pats Cabin WSA
Pueblo Mountains WSA	Pueblo Mountains WSA
Red Mountain WSA	Red Mountain WSA
Rincon WSA	Rincon WSA
Saddle Butte WSA	Saddle Butte WSA
Sage Hen Hills WSA	Sage Hen Hills WSA

Sand Dunes WSA	Sand Dunes WSA
Sand Dunes WSA/Lost Forest ISA	Sand Dunes WSA/Lost Forest ISA
Sand Hollow WSA	Sand Hollow WSA
Sheep Mountain WSA	Sheep Mountain WSA
Sheepshead Mountains WSA	Sheepshead Mountains WSA
Slocum Creek WSA	Slocum Creek WSA
Soda Mountain WSA	Soda Mountain WSA
South Fork Donner Und Blitzen WSA	South Fork Donner Und Blitzen WSA
South Fork WSA	South Fork WSA
Spaulding WSA	Spaulding WSA
Sperry Creek WSA	Sperry Creek WSA
Spring Basin WSA	Spring Basin WSA
Squaw Ridge Lava Bed WSA	Squaw Ridge Lava Bed WSA
Stonehouse WSA	Stonehouse WSA
Strawberry Mountain-Indian Creek WSA	Strawberry Mountain-Indian Creek WSA
Strawberry Mountain-Pine Creek WSA	Strawberry Mountain-Pine Creek WSA
Strawberry Mountain-Sheep Gulch WSA	Strawberry Mountain-Sheep Gulch WSA
Sutton Mountain WSA	Sutton Mountain WSA
Table Mountain WSA	Table Mountain WSA
Thirtymile WSA	Thirtymile WSA
Twelvemile Creek WSA	Twelvemile Creek WSA
Upper Leslie Gulch WSA	Upper Leslie Gulch WSA
Upper West Little Owyhee WSA	Upper West Little Owyhee WSA

West Peak WSA	West Peak WSA
Wild Horse Basin WSA	Wild Horse Basin WSA
Wildcat Canyon WSA	Wildcat Canyon WSA
WILDERNESS-HELLS CYN	WILDERNESS-HELLS CYN
Willow Creek WSA	Willow Creek WSA
Winter Range WSA	Winter Range WSA
Abert Rim	Abert Rim
Aldrich Mountain	Aldrich Mountain
Alvord Desert	Alvord Desert
Badlands	Badlands
Basque Hills	Basque Hills
Beaver Dam Creek	Beaver Dam Creek
Blitzen River	Blitzen River
Blue Canyon	Blue Canyon
Bowden Hills	Bowden Hills
Bridge Creek	Bridge Creek
Camp Creek	Camp Creek
Castle Rock	Castle Rock
Cedar Mountain	Cedar Mountain
Chopaka Mountain	Chopaka Mountain
Clarks Butte	Clarks Butte
Cottonwood Creek	Cottonwood Creek
Cougar Well	Cougar Well

Deschutes Canyon - FS	Deschutes Canyon - FS
Devil Garden Lava Bed	Devil Garden Lava Bed
Diablo Mountain	Diablo Mountain
Disaster Peak	Disaster Peak
Dry Creek	Dry Creek
Dry Creek Buttes	Dry Creek Buttes
East Alvord	East Alvord

#### A.6 Domain: Wilderness Study Area Number

1-101	Abert Rim
11-1	Mountain Lakes
1-117	Fish Creek Rim
11-17	Soda Mountain
1-132	Guano Creek
1-139	Spaulding
1-146A	Hawk Mountain
1-146B	Sage Hen Hills
1-2	Devils Garden Lava Bed
1-22	Four Craters Lava Bed
1-24	Lost Forest ISA
1-24	Sand Dunes
1-3	Squaw Ridge Lava Bed
13-2	Chopaka Mountain

1-58	Diablo Mountain
1-78	Orejana Canyon
2-103	Aldrich Mountain
2-14	Malheur-Bluebucket
2-23L	Stonehouse
2-23M	Lower Stonehouse
2-72C	Sheepshead Mountains
2-72D	Wildcat Canyon
2-72F	Heath Lake
2-72I	Table Mountain
2-72J	West Peak
2-73A	East Alvord
2-73H	Winter Range
2-74	Alvord Desert
2-77	Mahogany Ridge
2-78	Red Mountain
2-81	Pueblo Mountains
2-82	Rincon
2-84	Basque Hills
2-85F	High Steens
2-85G	S.Fk Donner Blitzen
2-85H	Home Creek
2-86E	Blitzen River

2-87	Bridge Creek
2-98A	Strawberry Mountains
2-98C	Strawberry Mountains
2-98D	Strawberry Mountains
3-110	Lower Owyhee Canyon
3-111	Saddle Butte
3-114	Palomino Hills
3-118	Bowden Hills
3-120	Clarks Butte
3-128	Jordan Craters
3-152	Willow Creek
3-153	Disaster Peak
3-156	Fifteen Mile Creek
3-157	Oregon Canyon
3-162	Twelve Mile Creek
3-173	Upper W. Little Owyhee
3-18	Castle Rock
3-194	Lookout Butte
3-195	Owyhee Canyon
3-27	Beaver Dam Creek
3-31	Camp Creek
3-32	Cottonwood Creek
3-33	Gold Creek

3-35	Sperry Creek
3-53	Dry Creek
3-56	Dry Creek Buttes
3-59	Owyhee Breaks
3-73	Blue Canyon
3-74	Cedar Mountain
3-74	Upper Leslie Gulch
3-75	Slocum Creek
3-77A	Honeycombs
3-77B	Wild Horse Basin
5-1	Thirtymile
5-14	Steelhead Falls
5-21	Badlands
5-31	North Fork
5-33	South Fork
5-34	Sand Hollow
5-35	Gerry Mountain
5-42	Hampton Butte
5-43	Cougar Well
5-6	Lower John Day
5-8	North Pole Ridge
5-84	Sutton Mountain
5-85	Pats Cabin

5-9	Spring Basin	
6-1	Mcgraw Creek	
6-2	Homestead	
6-3	Sheep Mountain	
FS5-31	North Fork - FS	Forest Service WSA that BLM has an interest in
FS6321	Deschutes Canyon - FS	Forest Service WSA that BLM has an interest in
Inholding	Inholding	Inholding - Private inholding islands surrounded by WSA.
Out	Out	Non-WSA islands within WSA polygons and that are not completely private.
Roadout	Roadout	Cherry-stemmed road buffers, not in WSA, but surrounded by WSA.