



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
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August 15, 2011

EMS TRANSMISSION 08/17/2011
Instruction Memorandum No. OR-2011-067
Expires: 9/30/2012

To: DMs, DSDs, Staff and Branch Chiefs
From: State Director, Oregon/Washington
Subject: Off-Highway Vehicle Designation Areas Data Standard

Program Area: Recreation and Planning.

Purpose: This instruction memorandum (IM) establishes the spatial data standard for Off-Highway Vehicle (OHV) Designation Areas (Attachment 1). It defines how this type of data is to be captured in a Geographic Information System (GIS) geodatabase, defines attributes used, and defines coding schemes (domains). The OHV Designation Areas spatial lines and polygons have been added to the corporate spatial data editing system.

Policy/Action: This data standard is to be followed for all OHV Designation Areas created through the planning process. The OHV Designation Areas data should be reviewed by all field offices and any needed corrections and/or additions made through established editing procedures.

Timeframe: This OHV Designation Areas Data Standard is effective immediately.

Budget Impact: None.

Background: All offices have a need for accurate and up-to-date spatial data for OHV Designation Areas. The draft data standard was issued under the IB-OR-2011-036 for review and comments. Comments received were analyzed and incorporated as appropriate. See Comments and Resolutions (Attachment 2).

Manual/Handbook Sections Affected: None.

Coordination: Information Bulletin OR-2011-036 was issued to review the draft data standard and to solicit comments.

Contact: Any questions or comments can be directed either to Stanley Frazier, State Data Administrator, at 503-808-6009; Chris Knauf, State Data Steward for OHV Designation Areas, at 503-808-6427; or Pamela Keller, Geographic Information Specialist, at 541-573-4486.

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 with assistance in this matter.

Signed by
Michael S. Mottice
Associate State Director

Authenticated by
Paj Shua Cha
Records Section

2 Attachments

- 1 – Off-Highway Vehicle Designation Areas Data Standard (31pp)
- 2 – Comments and Resolutions (2pp)

Distribution

OC530 Tom Chatfield



Bureau of Land Management

Oregon/Washington

Off-Highway Vehicle Designation Areas Data Standard

August 8, 2011



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1. GENERAL INFORMATION

Dataset (Theme) Name: OHV DESIGNATION AREAS

Dataset (Feature Class): OHV_DSG_POLY, OHV_DSG_ARC, OHV_DSG_P_POLY, OHV_DSG_P_ARC

1.1 ROLES AND RESPONSIBILITIES

Roles	Responsibilities
State Data Steward	The State Data Steward, Chris Knauf, at 503-808-6427, is responsible for approving data standards and business rules, for developing Quality Assurance/Quality Control procedure, and for 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 national data stewards. The State Data Steward reviews geospatial metadata for completeness and quality.
Lead GIS Specialist	The Lead GIS Specialist, Pamela Keller, at 541-573-4486, works with data stewards to convert 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, at 503-808-6009, 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 State Data Administrator is responsible for making data standards and metadata accessible to all users. The State 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, at 503-808-6655, is responsible for identifying any Privacy issues related to spatial data. The State Records Administrator also provides direction and guidance on data release and fees. The State Records Administrator ensures that data has been classified under the proper records retention schedule and determines appropriate Freedom of Information Act category.

Table 1 Roles and Responsibilities

1.2 FOIA CATEGORY

Public

1.3 RECORDS RETENTION SCHEDULE(S)

GRS BLM 20/5

TEMPORARY. Delete when no longer needed for administrative, legal, audit, or other operational purposes.

1.4 SECURITY/ACCESS/SENSITIVITY

The Off-Highway Vehicle (OHV) Designation Areas 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) Bureau of Land Management (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. A Privacy Impact Assessment has been completed.

2. DATASET OVERVIEW

2.1 DESCRIPTION

This dataset represents areas where OHV use on BLM lands is described in terms of Code of Federal Regulation (CFR) 8342 as Open, Limited, or Closed and any special restrictions (designated routes only, seasonal use only). All BLM surface jurisdiction lands are covered by one of these OHV designations. The designations are determined through the Land Use Planning process (Resource Management Plan (RMP)).

The CFR 43 section 8340 provides the regulations for OHV designations with these definitions:

Open is “an area where all types of vehicle use is permitted at all times, anywhere in the area subject to the operating regulations and vehicle standards set forth in subparts 8341 and 8342.”

Closed is “an area where off-road vehicle use is prohibited. Use of off-road vehicles in closed areas may be allowed for certain reasons; however, such use shall be made only with the approval of the authorized officer.”

Limited is “an area restricted at certain times, in certain areas, and/or to certain vehicular use. These restrictions may be of any type, but can generally be accommodated within the following type of categories: number of vehicles; types of vehicles; time or season of vehicle use; permitted or licensed use only; use on existing roads and trails; use on designated roads and trails; and other restrictions.”

The BLM policy is to change all “existing roads and trails” to “designated,” so, for this dataset, “limited” means “limited to designated roads and trails”. The types of restrictions are found in the attribute “RESTRICT.”

Proposed designations (OHV_DSG_P) contain alternative designations used in the RMP planning process. The selected alternative is transferred to the final OHV designation dataset (OHV_DSG_POLY) and retained until the next planning cycle.

2.2 USAGE

This dataset is used for depicting the OHV designation areas on maps and for overlaying in GIS with other data themes to determine feasibility and impact of project proposals. The public needs to know where they can travel on BLM lands off-road and if there are any special restrictions. The OHV_DSG and RESTRICT attributes provide this information. The DSG_REASON attribute provides information about why a particular area received the classification it did.

2.3 SPONSOR/AFFECTED PARTIES

The sponsor for this data set is the Deputy State Director, Resource Planning, Use, and Protection. The OHV_DSG is defined by and specific to BLM. Matching interagency data across the landscape is not necessary but is considered in the cumulative effect analysis (National Environmental Policy Act). Our non-governmental partners and the general public are affected to the extent that OHV designations are part of the RMP planning process that determines management on BLM lands. Implementation of an RMP may preclude or restrict OHV travel on some BLM lands because of potential impact to natural resources.

2.4 RELATIONSHIP TO OTHER DATASETS

This dataset has no direct relationship to other datasets. All roads and routes, however, are found in the Ground Transportation (GTRN) feature classes and designated linear assets are recorded in the Facility Asset Management System (FAMS) database. Intensively used OHV recreation sites are found on the RECSITE_POLY dataset (Recreation Sites data standard).

2.5 DATA CATEGORY/ARCHITECTURE LINK

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 categories. These sub-categories may be further broken into more specific groups until you get to a basic dataset that cannot be further sub-divided. Those basic datasets inherit all characteristics of all groups/categories above them. Physical data gets populated in the basic datasets (those groups/categories above them do not contain actual data but set parameters that all data of that type must follow).

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

Stanley Frazier
OR/WA State Data Administrator
Bureau of Land Management
P.O. Box 2965
Portland, OR 97208
503-808-6009

2.5.1 OHV DATA ORGANIZATION/STRUCTURE

For OHV_DSG, the categories/groups that the dataset is part of are:

OHV_DSG Polygon:

ODF

Boundaries

Special Management Area

Existing Special Management Area

OHV_DSG_POLY

Proposed Special Management Area

OHV_DSG_P_POLY

OHV_DSG Line:

ODF

Boundaries

Political Admin SMA Line

OHV_DSG_ARC

OHV_DSG_P_ARC

2.6 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 in the section on Attribute Descriptions. Data context is addressed in 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 dataset, the Data Subject Area and Information Class are:

- Data Subject Area: Geospatial
- Information Class: Location

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

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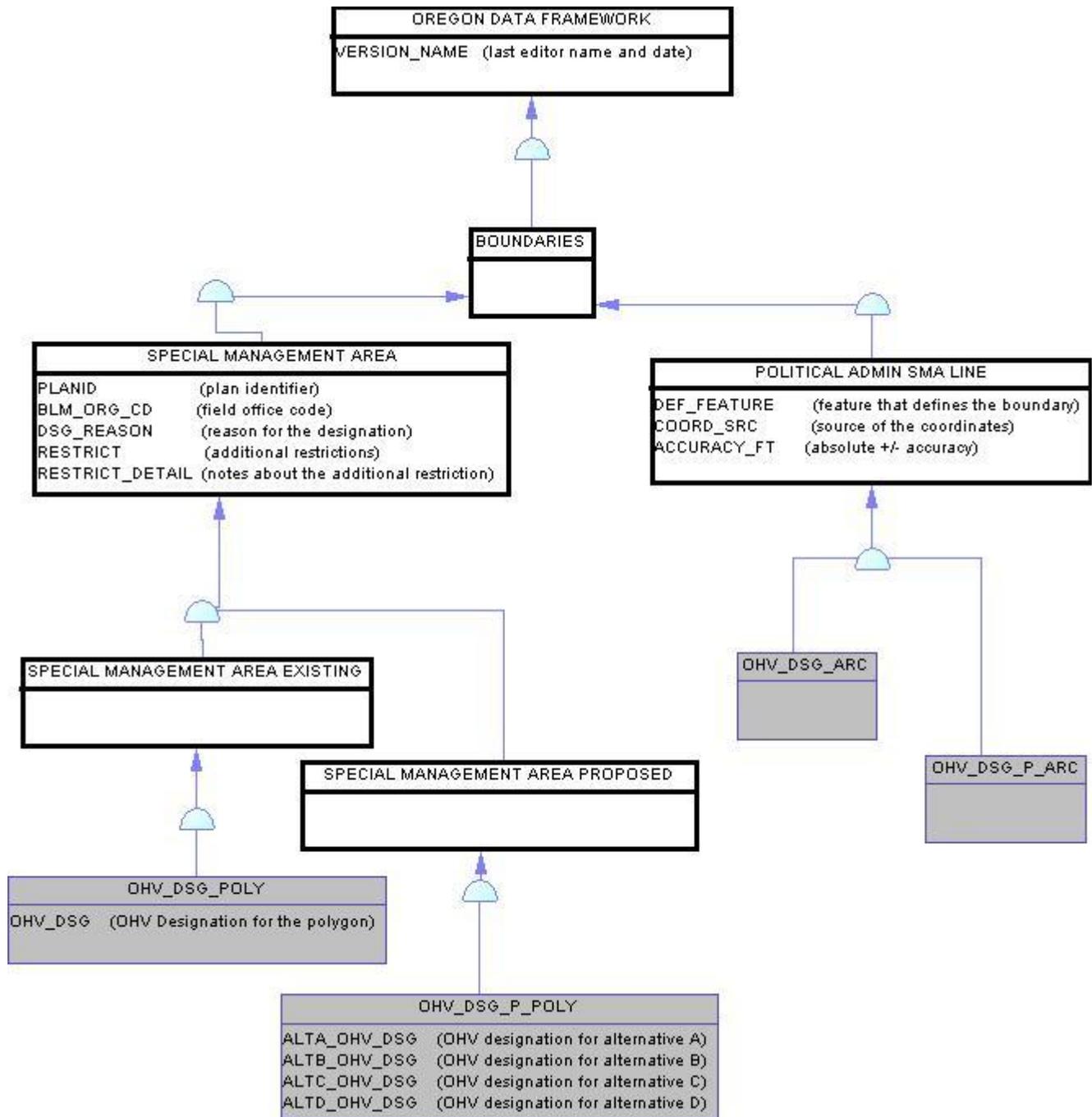


Figure 1 Data Organization Structure

3. DATA MANAGEMENT PROTOCOLS

3.1 ACCURACY REQUIREMENTS

Boundary themes (OHV_DSG is a boundary theme) require a higher level of accuracy than other themes. This is because those boundaries often divide very different management and/or regulations. Some boundaries can, by their nature or definition, be accurately located and others cannot. Special Management Area (including OHV_DSG) and Political and Administrative boundary perimeter lines must be defined and segmented accordingly. Individual boundary segment attributes (Feature Level Metadata) provide the information needed to answer questions about why a boundary line is where it is and how accurately it is located. These theme groups therefore require feature class pairs (feature datasets) with polygons for the area and lines for the perimeter.

3.2 COLLECTION, INPUT, AND MAINTENANCE PROTOCOLS

When a new land use plan (usually an RMP) is begun, the District Data Steward and GIS Coordinator work together with the appropriate Interdisciplinary Team (IDT) members to determine the inputs to a new OHV_DSG_P dataset (proposed OHV designation areas). These inputs may include special status species areas, cultural, recreation, and administrative sites, Visual Resource Inventory, Visual Resource Management classes, Wilderness, Wilderness Study Areas (WSAs), lands with wilderness characteristics (inventory), lands protected for their wilderness characteristics (RMP decision), and other special management designations. The majority of the inputs for creating OHV_DSG are existing GIS datasets, and spatial accuracy is expected to be identical to the accuracy of the source dataset. Note that any of these input spatial features might be buffered according to current management guidance (e.g., sage grouse leks buffered to 1 kilometre or more). The accuracy of the buffered line is still the accuracy of the source data. Because the inputs will probably overlap for any given acre of ground, the plan IDT must also decide which management scheme will benefit the resource of concern, which may vary by alternative. The full decision tree is documented in the metadata for the land use plan. The strongest or highest priority reason is captured in the DSG_REASON attribute.

The OHV_DSG_P is developed during the planning process. The attributes are identical to OHV_DSG except that there are designations for each plan alternative (ALTA_OHV_DSG, ALTB_OHV_DSG, etc.). Four alternatives are included in the OHV_DSG_P_POLY schema. More can be added if necessary for a particular plan. When the final plan is approved, OHV_DSG_P_POLY is dissolved on the selected alternative (e.g., ALTC_OHV_DSG), dropping the other alternatives but keeping other attributes. Dropping the alternative prefix from the OHV_DSG attribute and selecting BLM jurisdiction only is all that is needed to finish the creation of the new OHV_DSG_POLY. The new OHV_DSG_ARC is created from OHV_DSG_POLY (poly to line tool) and attributes transferred from OHV_DSG_P_ARC. The original OHV_DSG_P dataset is archived along with the rest of the RMP development data, and OHV_DSG is maintained in the corporate Spatial Data Engine (SDE).

Every acre of BLM surface jurisdiction must have an OHV_DSG designation. The preferred method of capture is to combine all of the inputs plus surface jurisdiction with a GIS union. The result is then clipped to the RMP boundary. It is important to match adjacent districts. For display and reporting, BLM surface jurisdiction is selected. The BLM surface jurisdiction at the time of the RMP is retained as part of the OHV_DSG theme. Over time, with changes in

ownership, there may be BLM lands with no OHV_DSG designation. Depending on the RMP, it may be allowable to apply an adjacent designation to the new BLM parcel. The archived OHV_DSG_P dataset can be used to make this determination.

Required attributes have an accuracy of at least ninety percent.

3.3 UPDATE FREQUENCY AND ARCHIVAL PROTOCOLS

The OHV_DSG dataset is relatively static. Except for minor corrections, OHV_DSG changes only through an RMP or RMP Amendment. It is important to understand which changes fall in the “minor” category and which require a plan amendment. Minor changes are small boundary line adjustments resulting from better digital data or corrections. Wording in the RMP may allow for other minor updates such as extension of an OHV_DSG polygon into adjacent BLM land acquired after the ROD date. The OHV_DSG_P is archived along with the complete RMP project data when the RMP is completed and becomes active. A new OHV_DSG_P is created for each new land use plan or amendment to a land use plan. The OHV_DSG is maintained in the corporate SDE database. It is archived annually.

It is also the responsibility of the Data Steward to ensure that any database external to the GIS remains current. The district GIS Coordinator will approve update processes and provide assistance and oversight. At this time, there are no additional digital databases associated with OHV_DSG, but this responsibility extends to paper records. Reports or tables containing OHV_DSG acreages must be checked against the GIS acres, and, ideally, should come directly from the GIS that supplied the official OHV_DSG designation acres for the relevant RMP, RMP amendment, and/or Travel Management Plan.

3.4 STATEWIDE MONITORING

The State Data Stewards are responsible for checking consistency and completeness across districts for the theme(s). The State Data Steward, in conjunction with the Lead GIS Specialist and District Data Stewards, should review the OHV_DSG theme across OR/WA at least once per year. For OHV_DSG, all that is required is a relatively quick look at the final OHV_DSG designations to check for:

- A. Data gaps and holes due to BLM land acquisitions.
- B. Incorrect classifications due to changes in protected areas, program policy, or plan amendments.

4. OHV DESIGNATION AREAS 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:

Stanley Frazier
 OR/WA State Data Administrator
 Bureau of Land Management
 P.O. Box 2965
 503-808-6009

4.1 OHV_DSG FEATURE DATASET

4.1.1 OHV_DSG_POLY (OHV Designation Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
PLANID	String	100		Yes	dom_PLANID
BLM_ORG_CD	String	5	OR000	Yes	dom_BLM_ORG_CD
OHV_DSG	String	10		Yes	dom_OHV_DSG
DSG_REASON	String	20		No	dom_DSG_REASON
RESTRICT	String	20		No	dom_RESTRICT
RESTRICT_DETAIL	String	50		No	
VERSION_NAME	String	50	InitialLoad	Yes	

4.1.2 OHV_DSG_ARC (OHV Designation 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		-1	No	
VERSION_NAME	String	50	InitialLoad	Yes	

4.2 OHV_DSG_P FEATURE DATASET

4.2.1 OHV_DSG_P_POLY (OHV Designation Proposed Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
PLANID	String	100		Yes	dom_PLANID
BLM_ORG_CD	String	5	OR000	Yes	dom_BLM_ORG_CD
ALTA_OHV_DSG	String	10		Yes	dom_OHV_DSG
ALTB_OHV_DSG	String	10		Yes	dom_OHV_DSG
ALTC_OHV_DSG	String	10		Yes	dom_OHV_DSG
ALTD_OHV_DSG	String	10		Yes	dom_OHV_DSG
DSG_REASON	String	20		No	dom_DSG_REASON
RESTRICT	String	20		No	dom_RESTRICT
RESTRICT_DETAIL	String	50		No	
VERSION_NAME	String	50	InitialLoad	Yes	

4.2.2 OHV_DSG_P_ARC (OHV Designation Proposed 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		-1	No	
VERSION_NAME	String	50	InitialLoad	Yes	

5. PROJECTION AND SPATIAL EXTENT

All feature classes and feature datasets are in Geographic, North American Datum (NAD) 83. Units are decimal degrees. Spatial extent (area of coverage) includes all lands managed by the BLM in OR/WA, and all lands with BLM surface jurisdiction should be covered by an OHV designation area. See the metadata for this dataset for more precise description of the extent.

6. SPATIAL ENTITY CHARACTERISTICS

OHV_DSG_POLY

Description: Instance of Special Management Areas (SMA) Existing group.

Geometry: Polygons form a continuous “wall-to-wall” cover across BLM lands. Polygons may not overlap.

Topology: Yes. OHV_DSG_POLY lines are coincident with OHV_DSG_ARC lines and together make the feature dataset, OHV_DSG.

Integration Requirements: None.

OHV_DSG_P_POLY

Description: Instance of SMA Proposed group.

Geometry: Polygons may overlap but only under differing alternatives.

Topology: Yes. OHV_DSG_P_POLY lines are coincident with OHV_DSG_P_ARC lines and together make the feature dataset, OHV_DSG_P.

Integration Requirements: None.

OHV_DSG_ARC

Description: Instance of Political Admin SMA Line group. Lines making up the area perimeters of OHV_DSG polygons and segmented as needed to indicate a change in either what defines the section of boundary and/or the source of the actual GIS coordinates.

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

Topology: Yes. OHV_DSG_POLY lines are coincident with OHV_DSG_ARC lines and together make the feature dataset, OHV_DSG.

Integration Requirements: Line segments must be coincident with the source data indicated by attributes DEF_FEATURE and COORD_SRC either through duplication or snapping.

OHV_DSG_P_ARC

Description: Instance of Political Admin SMA Line group. Lines making up the area perimeters of OHV_DSG_P polygons and segmented as needed to indicate a change in either what defines the section of boundary and/or the source of the actual GIS coordinates.

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

Topology: Yes. OHV_DSG_P_POLY lines are coincident with OHV_DSG_P_ARC lines and together make the feature dataset, OHV_DSG_P.

Integration Requirements: Line segments must be coincident with the source data indicated by attributes DEF_FEATURE and COORD_SRC either through duplication or snapping.

7. ATTRIBUTE CHARACTERISTICS AND DEFINITIONS

In alphabetical order.

7.1 ACCURACY_FT

Geodatabase Name	ACCURACY_FT
BLM Structured Name	ACCURACY_FEET_MEASURE
Description	<p>Inherited from Entity POLITICAL ADMIN SMA LINE</p> <p>Used in Feature Classes: OHV_DSG_ARC OHV_DSG_P_ARC</p> <p><u>Definition</u> 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_SRC is another GIS theme (Digital Line Graphs (DLG), Geographic Coordinate Database (GCD), Digital Elevation Model (DEM)) because the accuracy is determined by that theme. However, if COORD_SRC is MAP (digitized from a paper map) or GPS, 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.</p> <p>Examples: 40, -1, 0</p>
Required/Optional	Optional
Domain (Valid Values)	No Domain
Data Type	Short Integer

7.2 ALTA_OHV_DSG

Geodatabase Name	ALTA_OHV_DSG
BLM Structured Name	ALTERNATIVE_A_OHV_DESIGNATION_AREA_CODE
Description	<p>Not Inherited</p> <p>Used in Feature Class: OHV_DSG_P_POLY</p> <p><u>Definition</u> The proposed OHV designation area for Alternative A (1st alternative) of the plan. Each polygon gets a designation.</p>
Required/Optional	Required
Domain (Valid Values)	dom_OHV_DSG
Data Type	Variable Character (VCHAR) 10

7.3 ALTB_OHV_DSG

Geodatabase Name	ALTB_OHV_DSG
BLM Structured Name	ALTERNATIVE_B_OHV_DESIGNATION_AREA_CODE
Description	<p>Not Inherited</p> <p>Used in Feature Class: OHV_DSG_P_POLY</p> <p><u>Definition</u> The proposed OHV designation area for Alternative B (2nd alternative) of the plan. Each polygon receives a designation.</p>
Required/Optional	Required
Domain (Valid Values)	dom_OHV_DSG
Data Type	VCHAR10

7.4 ALTC_OHV_DSG

Geodatabase Name	ALTC_OHV_DSG
BLM Structured Name	ALTERNATIVE_C_OHV_DESIGNATION_AREA_CODE
Description	<p>Not Inherited</p> <p>Used in Feature Class: OHV_DSG_P_POLY</p> <p><u>Definition</u> The proposed OHV designation area for Alternative C (3rd alternative), if present, of the plan.</p>
Required/Optional	Optional
Domain (Valid Values)	dom_OHV_DSG
Data Type	VCHAR10

7.5 ALTD_OHV_DSG

Geodatabase Name	ALTD_OHV_DSG
BLM Structured Name	ALTERNATIVE_D_OHV_DESIGNATION_AREA_CODE
Description	<p>Not Inherited</p> <p>Used in Feature Class: OHV_DSG_P_POLY</p> <p><u>Definition</u> The proposed OHV designation area for Alternative D (4th alternative), if present, of the plan.</p>
Required/Optional	Optional
Domain (Valid Values)	dom_OHV_DSG
Data Type	VCHAR10

7.6 BLM_ORG_CD

Geodatabase Name BLM Structured Name	BLM_ORG_CD ADMINSTRATIVE_UNIT_ORGANIZATION_CODE
Description	Inherited from SPECIAL MANAGEMENT AREA Used in Feature Classes: OHV_DSG_POLY OHV_DSG_P_POLY Domain is a subset of the BLM national domain for organization codes. Only the first five characters of the national code are used. <u>Definition</u> Combination of the BLM State. District and field office which has administrative responsibility. Almost always this is simply the Field Office that the zone falls in. The unit can be identified only to the district level if appropriate.
Required/Optional	Required
Domain (Valid Values)	dom_BLM_ORG_CD
Data Type	Character (CHAR) 5

7.7 COORD_SRC

Geodatabase Name BLM Structured Name	COORD_SRC COORDINATE_SOURCE_CODE
Description	Inherited from Entity POLITICAL ADMIN SMA LINE Used in Feature Classes: OHV_DSG_ARC OHV_DSG_P_ARC <u>Definition</u> The actual source of the GIS coordinates for the line segments. If the line is copied from another theme and already has COORD_SRC, it should be reviewed and may need to be changed for use in this dataset.
Required/Optional	Required
Domain (Valid Values)	dom_COORD_SRC
Data Type	CHAR7

7.8 DEF_FEATURE

Geodatabase Name	DEF_FEATURE
BLM Structured Name	DEFINING_FEATURE_CODE
Description	<p>Inherited from Entity POLITICAL ADMIN SMA LINE</p> <p>Used in Feature Classes: OHV_DSG_ARC OHV_DSG_P_ARC</p> <p><u>Definition</u> 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. If the line is copied from another theme and already has DEF_FEATURE it should be reviewed and may need to be changed for use in this dataset.</p>
Required/Optional	Required
Domain (Valid Values)	dom_DEF_FEATURE
Data Type	VCHAR25

7.9 DSG_REASON

Geodatabase Name	DSG_REASON
BLM Structured Name	DESIGNATION_REASON_CODE
Description	<p>Inherited from Entity SPECIAL MANAGEMENT AREA polygon</p> <p>Used in Feature Classes: OHV_DSG_POLY OHV_DSG_P_POLY</p> <p>(OHV_DSG uses a subset of the DSG_REASON domain common to all SMA.)</p> <p><u>Definition</u> The dominant (strongest, least likely to change) reason for the particular designation. The attribute identifies the entity that was used to create the polygon and, therefore, acts as polygon feature-level metadata.</p>
Required/Optional	Optional
Domain (Valid values)	dom_DSG_REASON
Data Type	VCHAR10

7.10 OHV_DSG

Geodatabase Name	OHV_DSG
BLM Structured Name	OFF_HIGHWAY_VEHICLE_DESIGNATION_AREA_CODE
Description	<p>Not Inherited</p> <p>Used in Feature Class: OHV_DSG_POLY</p> <p><u>Definition</u> The OHV designation on BLM-managed lands as defined in the land use plan. Each polygon receives a designation.</p>
Required/Optional	Required
Domain (Valid Values)	dom_OHV_DSG
Data Type	VCHAR10

7.11 PLANID

Geodatabase Name	PLANID
BLM Structured Name	PLAN_NAME_TEXT
Description	<p>Inherited from Entity SPECIAL MANAGEMENT AREA</p> <p>Used in Feature Class: OHV_DSG_POLY OHV_DSG_P_POLY</p> <p><u>Definition</u> The name of the Project Plan Area for the plan associated with an activity, filled in when the plan is final. PLAN_DATE is filled in at the same time along with NEPA_ID, and LUP_NO, if applicable.</p> <p>Examples: Baker RMP 1989, Greater Sage Grouse Habitat Improvement Project, Upper Spencer Creek Forest Health Treatments EA</p>
Required/Optional	[Required Only When PLAN_STAGE=FINAL]
Domain (Valid Values)	dom_PLANID
Data Type	VCHAR100

7.12 RESTRICT

Geodatabase Name	RESTRICT
BLM Structured Name	RESTRICTION_CODE
Description	Inherited from Entity SPECIAL MANAGEMENT AREA Used in Feature Class: OHV_DSG_POLY OHV_DSG_P_POLY <u>Definition</u> Additional vehicle or timing restrictions on the <i>Limited</i> designation areas (which already allow travel only on designated roads and trails).
Required/Optional	Optional
Domain(Valid Values)	dom RESTRICT
Data Type	VCHAR20

7.13 RESTRICT_DETAIL

Geodatabase Name	RESTRICT_DETAIL
BLM Structured Name	RESTRICTION_EXPLANATION_TEXT
Description	Inherited from Entity SPECIAL MANAGEMENT AREA Used in Feature Class: OHV_DSG_POLY OHV_DSG_P_POLY <u>Definition</u> Seasonal restriction dates, vehicle specifics, or other details related to the type of restriction noted in the RESTRICT attribute. Example: Area closed 12/1 to 4/15
Required/Optional	Optional
Domain (Valid Values)	No Domain
Data Type	VCHAR50

7.14 VERSION_NAME

Geodatabase Name	VERSION_NAME
BLM Structured Name	GEODATABASE_VERSION_TEXT
Description	<p>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.</p> <p>Used in Feature Classes: OHV_DSG_ARC OHV_DSG_POLY OHV_DSG_P_ARC OHV_DSG_P_POLY</p> <p><u>Definition</u> Name of the corporate geodatabase version previously used to edit the record.</p> <p>InitialLoad = feature has not been edited in ArcSDE.</p> <p>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</p> <p>Example: sfrazier.GRA-121211-111034</p>
Required/Optional	Required
Domain (Valid Values)	No Domain
Data Type	VCHAR50

8. ASSOCIATED FILES OR DATABASES

There are no external files or databases currently associated with the OHV datasets.

9. LAYER FILES (PUBLICATION VIEWS)

Master corporate feature classes/datasets maintained in the edit database (currently orsoedit) are “published” to the user database (currently orsovctr) in several ways:

- A. Copied completely with no changes (replicated).
- B. Copied with no changes except to omit one or more feature classes from a feature dataset.

C. Minor changes made (e.g., clip, dissolve, union with ownership) in order to make the data easier to use. These “Publication feature classes” are indicated by “PUB” in their names. They are created through scripts that can be automatically executed and are easily rebuilt from the master (orsoedit) data whenever necessary.

Layer files are not new data requiring storage and maintenance but point to existing data. They have appropriate selection and symbolization for correct use and display of the data. They provide the guidance for data published on the web. Layer files are created by simple, documented processes, and can be deleted and recreated at any time.

All datasets are published, both internally and externally, with the attribute VERSION_NAME removed (for privacy reasons).

A Layer File for OHV_DSG_POLY will be created that is solid-fill-shaded with standard colors.

Feature Class OHV_DSG_ARC will not be published to orsovctr, but is always available in orsoedit.

Feature Class OHV_DSG_P is a temporary dataset tied to particular planning efforts and will not be published.

10. EDITING PROCEDURES

10.1 EDITING AND QUALITY CONTROL GUIDELINES

Please read the “Collection, Input, and Maintenance” section. To avoid overlapping polygons on the same area, polygons from different input themes are incorporated with the Union tool (spatial overlay), not copied. Union rather than Intersect is used to prevent unintended data loss.

10.2 SNAPPING GUIDELINES

Where line segments with different COORD_SRC meet, the most accurate or important (in terms of legal boundary representation) are kept unaltered and other lines snapped to them. In general, the hierarchy of importance is LLI (GCD points/lines) first with DLG or SOURCEL next and

DEM and MAP last.

When snapping to the data indicated in COORD_SRC (as opposed to duplicating with copy/paste), be sure there are exactly the same number of vertices in the target and source theme arcs.

When the DEF_FEATURE is "SUBDIVISION," snap the line segment to GCD points and make sure there are the same number of vertices in the line as GCD points.

11. ABBREVIATIONS AND ACRONYMS USED IN THIS STANDARD

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

Abbreviations	Descriptions
ACEC	Area of Critical Environmental Concern, including Research Natural Area (RNA)
BLM	Bureau of Land Management
CFR	Code of Federal Regulation
DEM	Digital Elevation Model
DLG	Digital Line Graphs
DSG	Designation
FAMS	Facility Asset Management System
FOIA	Freedom of Information Act
GCD	Geographic Coordinate System
GIS	Geographic Information System
GPS	Global Positioning System
GTRN	Ground Transportation (GIS Layer)
IDT	Interdisciplinary Team
NAD	North American Datum
NARA	National Archives and Records Administration
NEPA	National Environmental Policy Act
ODF	Oregon Data Framework
OHV	Off Highway Vehicle
OR/WA	Oregon / Washington
RMP	Resource Management Plan
ROD	Records of Decision
SDE	Spatial Data Engine
WSA	Wilderness Study Area

Table 2 Abbreviations/Acronyms Used

APPENDIX 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:

Stanley Frazier
OR/WA State Data Administrator
Bureau of Land Management
P.O. Box 2965
Portland, OR 97208
503-808-6009

Note that domain CODE, as seen in the geodatabase, is added to the DESCRIPTION. For example, the domain CODE "ADMIN" has the DESCRIPTION of "ADMIN–Access only for BLM administrative purposes."

A.1 BLM_ORG_CD [\[BACK\]](#)

OR000	OR000–Oregon/Washington BLM
ORB00	ORB00–Burns District Office
ORB05	ORB05–Three Rivers Field Office
ORB06	ORB06–Andrews Field Office
ORC00	ORC00–Coos Bay District Office
ORC03	ORC03–Umpqua Field Office
ORC04	ORC04–Myrtlewood Field Office
ORE00	ORE00–Eugene District Office
ORE05	ORE05–Siuslaw Field Office
ORE06	ORE06–Upper Willamette Field Office
ORL00	ORL00–Lakeview District Office
ORL04	ORL04–Klamath Falls Field Office
ORL05	ORL05–Lakeview Field Office
ORM00	ORM00–Medford District Office
ORM05	ORM05–Butte Falls Field Office
ORM06	ORM06–Ashland Field Office
ORM07	ORM07–Grants Pass Field Office
ORM08	ORM08–Glendale Field Office
ORP00	ORP00–Prineville District Office
ORP04	ORP04–Central Oregon Field Office
ORP06	ORP06–Deschutes Field Office
ORR00	ORR00–Roseburg District Office
ORR04	ORR04–Swiftwater Field Office
ORR05	ORR05–South River Field Office
ORS00	ORS00–Salem District Office
ORS04	ORS04–Cascades Field Office
ORS05	ORS05–Marys Peak Field Office
ORS06	ORS06–Tillamook Field Office
ORV00	ORV00–Vale District Office

ORV04	ORV04–Malheur Field Office
ORV05	ORV05–Baker Field Office
ORV06	ORV06–Jordan Field Office
ORW00	ORW00–Spokane District Office
ORW02	ORW02–Wenatchee Field Office
ORW03	ORW03–Border Field Office

A.2 COORD_SRC [\[BACK\]](#)

Choices relevant to OHV_DSG are shaded. (In priority order with “stronger” reasons first.)

CFF	CFF–Lines duplicated or buffered from Cartographic Feature Files (USFS)
DEM	DEM–Digital Elevation Model (30 m or better accuracy) used for creation of contours
DIS	DIS–Lines generated to connect discontinuous features
DLG	DLG–Lines duplicated or buffered from (24K scale accuracy) USGS Digital Line Graphs
DOQ	DOQ–Screen digitized linework over Digital Orthoquad backdrop
DRG	DRG–Screen digitized linework over Digital Raster Graphic backdrop
GCD	GCD–Lines snapped to Geographic Coordinate Database Points
GPS	GPS–Lines obtained from a Global Positioning System device
IMG	IMG–Linework derived from interpretation of satellite or other non-photographic imagery
MAP	MAP–Digitized linework from hardcopy map
MTP	MTP–Lines duplicated from Digital Master Title Plat
SOURCEL	SOURCEL–Source Layer from BLM GIS
SRV	SRV–Survey methods were used to create the linework (e.g. COGO)
TIGER	TIGER–Tiger Data
TRS	TRS–Coordinates only given as a legal description (township, range, section)
UNK	UNK–Unknown coordinate source
WOD	WOD–WODDB Photogrammetric
WOD	WOD–WODDB Photogrammetric
MAP15	MAP15–15 minute quad map
MAP7_5	MAP7_5–7.5 minute quad map
FPM	FPM–Forest Plan Map
OTH	OTH–Other
PCCS	PCCS–Original WODDB (Pre-GCDB) Coordinates
PMAP	PMAP–Planning Map
TRAV	TRAV–Traverse data

A.3 DEF_FEATURE [\[BACK\]](#)

Choices relevant to OHV_DSG are shaded. (In priority order with “stronger” reasons first.)

BLM_ADMIN	BLM_ADMIN–Bureau of Land Management administrative boundary
CLOSURE	CLOSURE–Closure extension. Used to close small gaps
COAST_3MILE	COAST_3MILE–Separating coastal water from territorial sea at 3-mile

COUNTY	COUNTY–County boundary
ELEVATION	ELEVATION–Line of common elevation
FENCE	FENCE–Boundary defined by a Fence line regardless of whether it forms part of a grazing unit
FOREST_SERVICE_ADMIN	FOREST_SERVICE_ADMIN–Forest Service administrative boundaries
GRAZING_BOUNDARY	GRAZING_BOUNDARY–Boundary defined as a pasture or other administrative grazing boundary (regardless of whether it is fenced or follows a subdivision or other legal boundary)
HU	HU–Hydrologic unit divide
JETTY	JETTY–Jetty
JURISDICTION	JURISDICTION–Surface jurisdiction boundary (e.g. boundary defined as BLM ownership regardless of subdivision)
LAVA	LAVA–Edge of lava flow
LEVEE	LEVEE–Dike or levee
MARSH	MARSH–Edge of Marsh, wetland, swamp, or bog boundary
MINERAL_DISTURBANCE	MINERAL_DISTURBANCE–Edge of quarry, mine, gravel stockpile or other mineral surface disturbance area
NLCS_BOUNDARY	NLCS_BOUNDARY–Wilderness, Wild and Scenic River, Historic District or other NLCS designation boundary
PARKING_AREA	PARKING_AREA–Motorized vehicle parking area
POINT-TO-POINT	POINT-TO-POINT–Boundary defined by a straight line segment between two points
POWERLINE	POWERLINE–Power transmission line or buffer offset
RIDGE	RIDGE–Ridge
RIGHT-OF-WAY	RIGHT-OF-WAY–A legal right of way forms boundary
RIM	RIM–Line generally follows a natural topographic barrier
ROAD	ROAD–Routes managed for use by low or high-clearance (4WD) vehicles, but not ATV
ROAD_OFFSET	ROAD_OFFSET–Boundary is offset from a road (not a consistent buffer)
SHORELINE	SHORELINE–Lake, pond, reservoir, bay or ocean shoreline or meander line
STREAM_LBANK	STREAM_LBANK–Downstream left stream bank
STREAM_RBANK	STREAM_RBANK–Downstream right stream bank
SUBDIVISION	SUBDIVISION–Public Land Survey System derived aliquot (1/2s, 1/4s) parts and lots define the legal boundary
TRAIL	TRAIL–Routes managed for human-powered, stock or off-highway vehicle forms of travel
UNKNOWN	UNKNOWN–Defining feature is unknown
VEGETATION	VEGETATION– Boundary is defined as a seeding boundary or other relatively permanent vegetation change
WATERCOURSE	WATERCOURSE–Stream, river, ditch, canal or drainage centerline

A.4 PLANID [\[BACK\]](#)

Too lengthy to list. Contact the State Data Administrator for a copy.

Stanley Frazier
 OR/WA State Data Administrator
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 P.O. Box 2965
 Portland, OR 97208
 503-808-6009

A.5 DSG_REASON [\[BACK\]](#)

Choices relevant to OHV_DSG are shaded. (In priority order with “stronger” reasons first.)

WILD	WILD–Wilderness
WSR	WSR–Wild and Scenic River
WSA	WSA–Wilderness Study Area
SCENICCORR	SCENICCORR–Designated Scenic Highway Corridor
OPENPLAY	OPENPLAY–Specially designated OHV open area
OPENMMS	OPENMMS–Area declared open for mineral materials
ACEC	ACEC–Areas of Critical Environmental Concern
CULT	CULT–Cultural (archeological) site
ROW	ROW–Utility Corridor or site
CMPA	CMPA–Cooperative Management and Protection Area
RECSITE	RECSITE–Recreation Site
ADMNSITE	ADMNSITE–Administrative Site
FEDLIST	FEDLIST–Federally listed species habitat
WITHDWL	WITHDWL–Mineral withdrawal
LEK	LEK–Sage Grouse lek buffer area
SOIL	SOIL–Fragile soils
HAZMAT	HAZMAT–Hazardous materials area
HIST	HIST–Historic district or designated site
HMA	HMA–Wildhorse or Burro Herd Management Area
SRMA	SRMA–Special Recreation Management Area
BIGGAME	BIGGAME–Big game winter range
RAPTOR	RAPTOR–Raptor areas
RIPARIAN	RIPARIAN–Wetland or Riparian
SEEDING	SEEDING–Seeding
ROADW	ROADW–Wilderness or WSA cherry-stem road buffer
WJMAO	WJMAO–Wildlands Juniper Management Area Outside 1/2 Mile Steens Loop Road Buffer
WJMAI	WJMAI–Wildlands Juniper Management Area Inside 1/2 Mile Steens Loop Road Buffer
VRM	VRM–Visual Resource Management class determines the designation
VRI	VRI–Original Visual Resource Inventory class determines the designation
BLMOPEN	BLMOPEN–Meets Bureau policy for open use
UNK	UNK–Unknown reason

A.6 OHV_DSG [\[BACK\]](#)

Open	Open—All types of vehicle use is permitted at all times anywhere in the area, subject to operating regulations and vehicle standards
Limited	Limited—Vehicle use only on designated roads and trails with possible additional time or vehicle restrictions
Closed	Closed—Off-road vehicle used is prohibited
Unknown	Unknown—OHV area designation information is applicable but not available
NA	NA—OHV area designation is not applicable (e.g., non-BLM inholdings)

A.7 RESTRICT [\[BACK\]](#)

Season	Season—Seasonal restriction
Time	Time—Time of day restriction
Number	Number—Number restriction
Permit	Permit—Permitted or licensed use only
Other	Other—Other restriction
XC-Seasonal	XC-Seasonal—Unique case where Cross-country travel allowed seasonally
Unknown	Unknown—It is unknown whether there are additional restrictions
None	None—No additional restrictions

Comments and Resolutions
Off-Highway Vehicle (OHV) Designation Areas Data Standard
August 8, 2011

Section	Discussions	Final Resolutions
OHV_DSG	Requested modifications to designation definition language.	<ul style="list-style-type: none"> No change made. The language are direct quotes from 43CFR 8340.
DSG_REASON	<ul style="list-style-type: none"> Typographical error: Administrative Se. 	<ul style="list-style-type: none"> Corrected: Administrative Site.
	<ul style="list-style-type: none"> Consider adding “Temporary” as a value to account for temporary emergency closures such as wildlife and post-wildfire. 	<ul style="list-style-type: none"> No change made. Temporary closure “is not an OHV designation, it is a human health and safety, and/or environmental reason that the area is being temporarily closed.”
	<ul style="list-style-type: none"> Typographical error: ROADW – Road cherry-stemmed of Wilderness Study Area (WSA) or Wilderness. 	<ul style="list-style-type: none"> Corrected: ROADW–Road cherry-stemmed out of WSA or Wilderness.
PLANID	<ul style="list-style-type: none"> Add “John Day Basin RMP 2011.” 	<ul style="list-style-type: none"> Not added. The John Day Basin RMP is still in development.
	<ul style="list-style-type: none"> Add 6 River Plans: <ol style="list-style-type: none"> White National Wild and Scenic River Management Plan 1994 John Day River Management Plan 2001 North Fork Crooked River Management Plan 1993 Lower Crooked Wild and Scenic River (Chimney Rock Segment) Management Plan 1992 Middle Deschutes/Lower Crooked Wild and Scenic Rivers Management Plan 1992 Lower Deschutes River Management Plan 1993 	<ul style="list-style-type: none"> Added 6 River Plans as requested.
	<ul style="list-style-type: none"> Edit “Two Rivers Resource Area Resource Management Plan (RMP) 1986” to read “Two Rivers RMP 1986.” 	<ul style="list-style-type: none"> Edit made as requested.
Add seasonal restriction dates.	<ul style="list-style-type: none"> There is a lot of variation in seasonal restriction dates. 	<ul style="list-style-type: none"> Added new attribute RESTRICT_DETAIL to allow additional district-specific information.

Section	Discussions	Final Resolutions
Add reference to “Limited to Existing” in dataset description.	<ul style="list-style-type: none"> Wanted definitions to match 43CFR. 	<ul style="list-style-type: none"> No change to description or definitions, but districts can add desired additional language in the new RESTRICT_DETAIL field.
Change the model graphic	<ul style="list-style-type: none"> Change Recreation Management Area to both Special Recreation Management Area (SRMA) and Extensive Recreation Management Areas (ERMA). 	<ul style="list-style-type: none"> The graphic is a summary version of the full model which has both SRMA and ERMA, but will change the small version.
DEF_FEATURE	<ul style="list-style-type: none"> Requested changes to definition for ROAD to match OHV purposes, but purpose of DEF_FEATURE is different. It is feature-level metadata for editing and Geographic Information System maintenance purposes. 	<ul style="list-style-type: none"> No change made.
Collection, Input, and Maintenance	<ul style="list-style-type: none"> Requested addition of Land with Wilderness Characteristics and Wild Lands as inputs to OHV designation area decisions. 	<ul style="list-style-type: none"> Paragraph was edited to be in conformance with latest guidance related to lands with wilderness characteristics.