FOREST SITE MOISTURE CONDITIONS

SPATIAL DATA STANDARD

Table Rock Wilderness

DOCUMENT REVISIONS

Revision	Date	Author	Description	Affected Pages
1.0	6/1/2017	Dana Baker-Allum, Maria Fiorella, Craig Ducey, Abe Wheeler	1st released version.	All
1.1	7/10/2018	Micah Babinski	Added links to data management website in the place of staff names and removed blank rows in commonly used abbreviations table	4, 7, 12

Table of Contents

1. GENERAL INFORMATION 4
1.1 ROLES AND RESPONSIBILITIES 4
1.2 FOIA CATEGORY 4
1.3 RECORDS RETENTION SCHEDULE 5
1.4 SECURITY/ACCESS/SENSITIVITY 5
1.5 KEYWORDS 5
1.6 SUBJECT FUNCTION CODES 5
2. DATA SET OVERVIEW 6
2.1 DESCRIPTION 6
2.2 USAGE 6
2.3 SPONSOR/AFFECTED PARTIES 6
2.4 RELATIONSHIP TO OTHER DATA SETS, DATABASES or FILES 6
2.5 DATA CATEGORY/ARCHITECTURE LINK 6
2.6 FOREST SITE MOISTURE CONDITIONS DATA ORGANIZATION / STRUCTURE 8
3. DATA MANAGEMENT PROTOCOLS 9
3.1 ACCURACY REQUIREMENTS 9
3.2 COLLECTION, INPUT, AND MAINTENANCE PROTOCOLS 9
3.3 UPDATE FREQUENCY AND ARCHIVAL PROTOCOLS 9
3.4 STATEWIDE MONITORING 9
4. FOREST SITE MOISTURE CONDITIONS SCHEMA (simplified) 9
4.1 FSMC_POLY Feature Class (Forest Site Moisture Conditions Polygon) 9
5. PROJECTION AND SPATIAL EXTENT 9
6. SPATIAL ENTITY CHARACTERISTICS 10
7. ATTRIBUTE CHARACTERISTICS AND DEFINITION (In alphabetical order) 10
8. LAYER FILES (PUBLICATION VIEWS) 10
8.1 GENERAL 10
8.2 SPECIFIC TO THIS DATA SET 10
9. EDITING PROCEDURES 10
10. OREGON/WASHINGTON DATA FRAMEWORK OVERVIEW 11
11. ABBREVIATIONS AND ACRONYMS USED 12
12. REFERENCES 12

1. GENERAL INFORMATION

Data set (Theme) Name: Forest Site Moisture Condition (FSMC)
Data set (Feature Class): FSMC_POLY

1.1 ROLES AND RESPONSIBILITIES

Roles	Responsibilities
State Data Stewards	The State Data Steward is responsible for approving data standards and business rules, developing Quality Assurance/Quality Control procedures, identifying potential privacy issues, and ensuring 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 also reviews geospatial metadata for completeness and quality.
GIS Technical Lead	The GIS Technical Lead works with data stewards to convert business needs into GIS applications, derive data requirements, and participates in the development of data standards. The GIS technical lead coordinates with system administrators and GIS coordinators to manage the GIS databases. The GIS technical lead works with data editors to make sure data is being input into the enterprise Spatial Database Engine (SDE) database consistently and in accordance with the established data standard. The GIS technical lead provides technical assistance and advice on GIS analysis, query, and display of the data set.
State Data Administrator	The State Data Administrator provides information management leadership, data modeling expertise, and custodianship of state data models. The state data administrator ensures defined processes for development of data standards and metadata are consistent, complete, and followed. The state data administrator is responsible for making data standards and metadata accessible to all users. The state data administrator also coordinates with data stewards and GIS coordinators to respond to national spatial data requests.
State Records Administrator	The State Records Administrator assists the state data steward to identify 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 also 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

The DRS/GRS/BLM Combined Records Schedule under Schedule 20/52a3 (Electronic Records/Geographic Information Systems) lists this theme as one of the system-centric themes that are significant for the Bureau of Land Management's (BLM) mission that must be permanently retained.

> "PERMANENT. Cutoff at the end of each Fiscal Year (FY) or when significant changes and additions have been made, before and after the change. Use BLM 20/52a. Transfer to the National Archives every three years after cutoff. Under the instruction in 36 CFR 1235.44-50 or whichever guidance is in place at the time of the transfer. Submissions are full data sets and are in addition to, not replacements of, earlier submissions."

According to the DRS/GRS/BLM Records Schedules, Schedule 20 Item 52a3, the National Operations Center is responsible for transfer to NARA.

Oregon/Washington (OR/WA) BLM Guidebook for Management of Geospatial Data (v1) Section 15.2 - Corporate Data Online Archives prescribes:

> "Vector annual archives are retained online for 12 years. Each year, data that has reached 12 years old is copied off-line, to be retained until no longer needed (determined by data stewards and program leads), with format and readability maintained in a five (5) year "tech refresh" update cycle."

1.4 SECURITY/ACCESS/SENSITIVITY

The FSMC theme does not require any additional security other than that provided by the General Support System (the hardware/software infrastructure of the OR/WA BLM).

This data set is not sensitive and there are no restrictions on access to this data from either within the BLM or external to the BLM. This data set falls under the standard Records Access Category 1A-Public Data.

There are or no privacy issues or concerns associated with these data themes. A Privacy Impact Assessment has not yet been submitted for this data standard.

1.5 KEYWORDS

Keywords that can be used to locate this data set include Forest, Vegetation, and Biota

1.6 SUBJECT FUNCTION CODES

BLM Subject Function codes that can be used to describe this data set include:

- 1283 – Data Administration
- 5000 – Forest Management
- 6711 – Vegetation Management

2. DATA SET OVERVIEW

2.1 DESCRIPTION

The FSMC data set represents the spatial locations of moist, dry, and very dry forest types within the Southwest Oregon Resource Management Plan (RMP) planning area. To create the data set, the BLM first classified Integrated Landscape Assessment Project (ILAP) Potential Vegetation Type (http://inr.oregonstate.edu/) approximations of plant association groups into moist and dry moisture condition classes based on Franklin and Johnson (2012) and local knowledge. U.S. Forest Service Region 6 ecologists and district-level BLM resource staff then further refined the classification by identifying very dry areas. Finally, the BLM summarized the distribution of moisture condition classes within Forest Operation Inventory (FOI) units and labeled each polygon with the majority intersecting class.

Further information about the development and use of this data set is described in Appendix C of the RMPs for Western Oregon Proposed RMPs (http://www.blm.gov/or/plans/rmpswesternoregon/feis/).

Franklin, J. F. and K. N. Johnson. 2012. A restoration framework for federal forests in the Pacific Northwest. Journal of Forestry 110(8): 429–439. http://dx.doi.org/10.5849/jof.10-006.

2.2 USAGE

This data set is used for land use planning and as an analytical model input.

2.3 SPONSOR/AFFECTED PARTIES

The sponsor for this data set is the Deputy State Director, Division of Resources, Lands, Minerals, and Fire.

2.4 RELATIONSHIP TO OTHER DATA SETS, DATABASES or FILES

There are no relationships to other data sets at this time.

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. All OR/WA resource-related data are divided into three general categories:

- Activities
- Resources
- Boundaries.

These general categories are broken into subcategories that inherit spatial characteristics and attributes from their parent category. These subcategories may be further broken into more specific groups until the basic data set that cannot be further subdivided. Those basic data sets inherit all characteristics of all groups/categories above them. The basic data sets are where physical data get 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 ODF showing the overall organization and entity inheritance. The FSMC entity is highlighted. For additional information about the ODF, contact the State Data Administrator.

In the ODF, FSMC is considered a natural resource and categorized as follows:

ODF
- Resources
  - Potential Resources
    - FSMC_POLY

Figure 1 provides a graphic representation of the entities and hierarchical relationships.

2.6 FOREST SITE MOISTURE CONDITIONS DATA ORGANIZATION/STRUCTURE

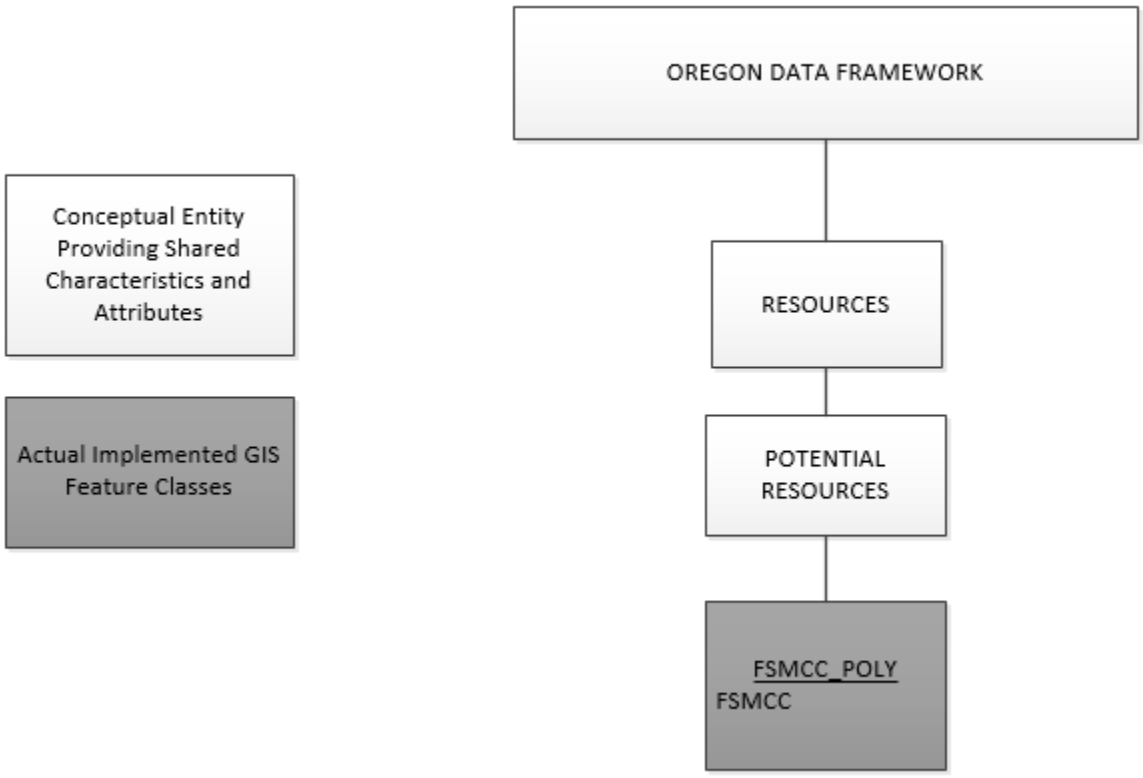

Figure 1. Data Organization Structure

3. DATA MANAGEMENT PROTOCOLS

3.1 ACCURACY REQUIREMENTS

The FSMC data has a wide range of accuracies. Locational accuracy is dependent upon the original input data used to derive the data set.

3.2 COLLECTION, INPUT, AND MAINTENANCE PROTOCOLS

This dataset is static and will not be updated; therefore collection, input, and maintenance protocols are not needed.

3.3 UPDATE FREQUENCY AND ARCHIVAL PROTOCOLS

This data set is not updated regularly. The data set will only be updated if there are acquisitions, disposals, or maintenance-related revision to BLM-administered lands within the Southwest Oregon RMP planning area.

Data is archived annually at the end of the fiscal year.

3.4 STATEWIDE MONITORING

The state data steward, assisted by the GIS technical lead, is responsible for checking consistency across districts for the theme. The state data steward is responsible for coordinating the response to national BLM and interagency data calls for data. State Office GIS specialists will work with the state data stewards to appropriately select and compile the data from the relevant theme.

4. FOREST SITE MOISTURE CONDITIONS SCHEMA (simplified)

Attributes are listed in the order in which they appear in the geodatabase feature class. The order is indicative of the importance of the attribute for theme definition and use. There are no aliases, unless specifically noted. There are no domains used in this data standard.

4.1 FSMC_POLY Feature Class (Forest Site Moisture Conditions Polygon)

Attribute Name	Data Type	Length	Default	Required?	Domain
FSMC	String	8		Yes	

5. PROJECTION AND SPATIAL EXTENT

The projection for the data set is Universal Transverse Mercator, Zone 10N, North American Datum 83. Units are meters. The spatial extent (area of coverage) includes all BLM-administered lands within the Southwest Oregon RMP planning area.

6. SPATIAL ENTITY CHARACTERISTICS

FSMC_POLY
Description: Instance of Resources.
Geometry: Polygon.
Topology: No topology enforced.
Integration Requirements: None.

7. ATTRIBUTE CHARACTERISTICS AND DEFINITION **(In alphabetical order)**

7.1 FSMC

Geodatabase Name	FSMC
BLM Structured Name	Forest_Site_Moisture_Condition_Text
Alias Name	
Inheritance	Not Inherited
Feature Class Use/Entity Table	FSMC_POLY
Definition	FSMC is a classification scheme based on plant associations reflecting distinctive compositions, growth conditions, and historical disturbance regimes. See Franklin and Johnson (2012).
Required/Optional	Required.
Domain (Valid Values)	No domain. Acceptable values are: Moist, Dry, Very Dry
Data Type	String (8)

8. LAYER FILES (PUBLICATION VIEWS)

8.1 GENERAL

Layer files are not new data requiring storage and maintenance but, rather, 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 Worldwide Web. Layer files are created by simple, documented processes, and can be deleted and recreated at any time.

8.2 SPECIFIC TO THIS DATA SET

There are no layer files or publication views known at the time the data standard was written.

9. EDITING PROCEDURES

This data set is not editable; therefore, no edit guidance is provided. Any required changes to the data set would require full replacement.

10. OREGON/WASHINGTON DATA FRAMEWORK OVERVIEW

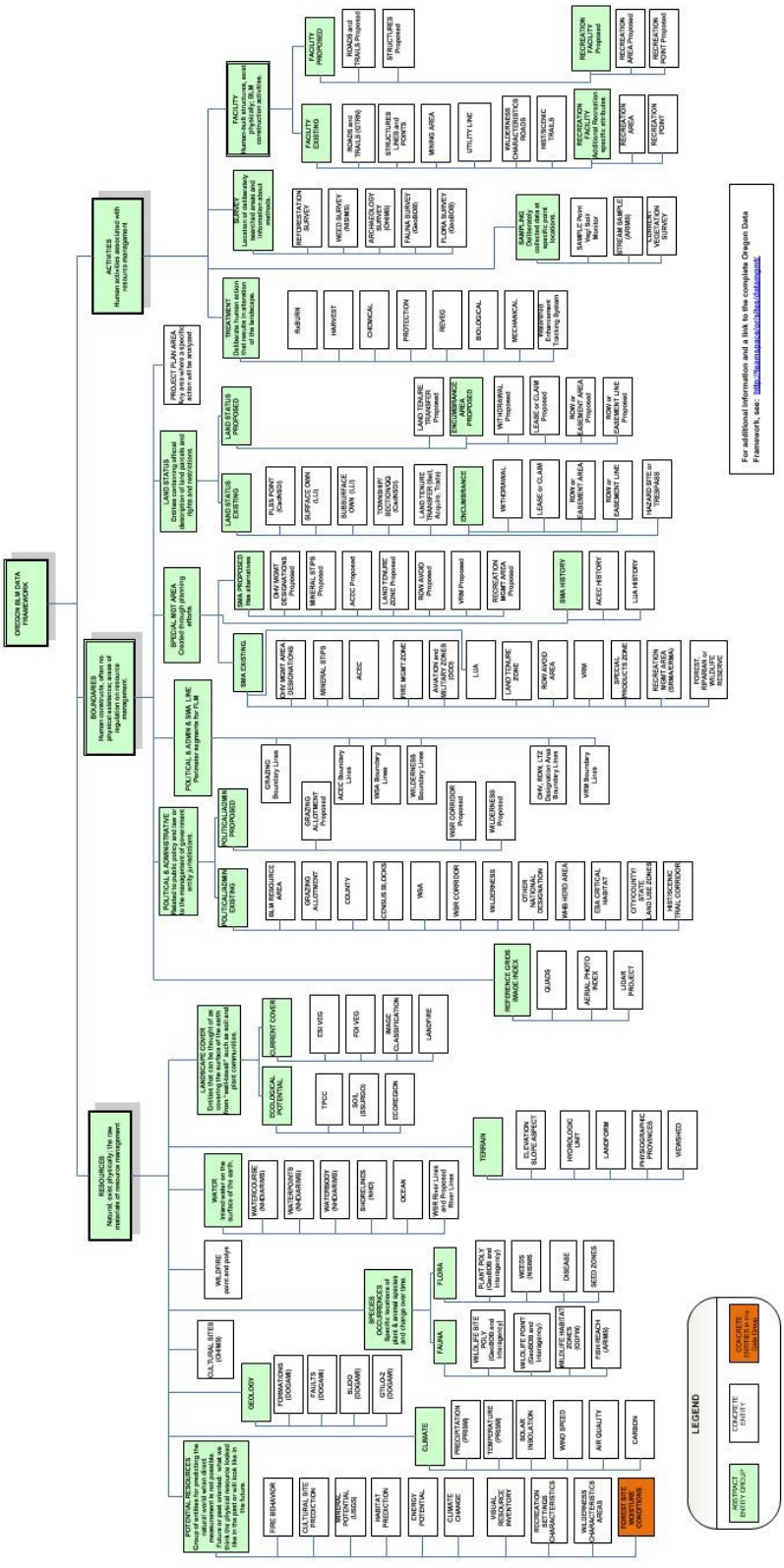

Figure 2. Oregon Data Framework (ODF) Overview

11. ABBREVIATIONS AND ACRONYMS USED

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

Abbreviations	Descriptions
BLM	Bureau of Land Management, U.S. Department of the Interior
FOIA	Freedom of Information Act
GIS	Geographic Information System
ILAP	Integrated Landscape Assessment Project
ODF	Oregon Data Framework
OR/WA	Oregon/Washington BLM Administrative State
SDE	Spatial Database Engine

Table 2. Abbreviations/Acronyms Used

REFERENCES

USDI BLM. 2016. Proposed Resource Management Plan/Final Environment Impact Statement. http://www.blm.gov/or/plans/rmpswesternoregon/feis/

Franklin, J. F. and K. N. Johnson. 2012. A restoration framework for federal forests in the Pacific Northwest. Journal of Forestry 110(8): 429–439. http://dx.doi.org/10.5849/jof.10-006.