Oregon/Washington Bureau of Land Management

Botany and Wildlife Observations and Surveys

Spatial Data Standard

Wildlife specialist holding Pygmy Rabbit during field exam, SE Oregon, Photo credit: Larisa Bogardus July 2016.

Document Revisions

Revision	Date	Author	Description	Affected Pages
1.0	3/26/2021	Dana Baker-Allum, Chelsea Waddell, Mark Mousseaux, Susan Carter, Bruce Hollen	Initial Release	All

Navigation	
	This document uses hyperlinks to display additional information on topics. External links are displayed with an underline. Internal links are blue text, not underlined. After clicking on an internal link, press the **Alt**  **+left arrow**  keys to return to the original location from the target location.

Contents

1 General Information

The Botany and Wildlife Observations and Surveys dataset represents and includes inventory, current and historic spatial locations, habitat, and population data BLM Special Status wildlife and botanical species, survey & manage, and other rare species on BLM lands in Oregon and Washington. This dataset documents surveys, inventories of species that were surveyed for, and the associated sites and observations encountered during those surveys. It also includes incidental sites and observations of wildlife and botanical species, and biologically significant features of the environment. The dataset is intended for rare species that are typically identified to their lowest taxonomic classification, and at least to species. Additionally, the dataset includes a master list of all species within the database as well as the current status of those species according to the most recent Interagency Special Status Species Program's list. BLM botanists, wildlife biologists, and other specialists, manage, enter, and query their data for BLM Special Status Species and district priority species when using the Geographic Biotic Observations (GeoBOB) ArcGIS application. The data largely comes from records collected and entered by district staff as well as relevant supplementary datasets that have been migrated into the database. The original dataset was released in January 2005 and a second version, which included improvements and simplifications to the data design, was released in November 2016. GeoBOB is a critical tool and key component of the BLM Oregon & Washington's Interagency Special Status Species Program's management of associated wildlife and botanical species.

- Dataset (Theme) Name: Botany and Wildlife Observations and Surveys
- Dataset (Feature Class): SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT
- Dataset (Table): ADD_OBS, COLLECTIONS, FAUNA_DETAIL_OBS

1.1 Roles and Responsibilities

Table 1 Roles and Responsibilities

Roles	Responsibilities
State Data Steward	The State Data Steward responsibilities include approving data standards and business rules, developing Quality Assurance/Quality Control procedures, identifying potential Privacy issues, and managing that data 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.
GIS Technical Lead	The GIS Technical Lead 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 technical lead coordinates with system administrators and GIS coordinators to manage the GIS databases. The GIS technical lead works with data editors to ensure the consistency and accordance with the established data standards of data input into the enterprise Spatial Database Engine (SDE) geodatabase. The GIS technical lead provides technical assistance and advice on GIS analysis, query, and display of the dataset.
State Data Administrator	The State Data Administrator provides information management leadership, data modeling expertise, and custodianship of the state data models. The State Data Administrator ensures compliance with defined processes for development of data standards and metadata, and process consistency and completeness. 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.

Table 1 Roles and Responsibilities

Roles	Responsibilities
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 classifies data under the proper records retention schedule and determines the appropriate Freedom of Information Act category.

1.2 FOIA Category

Category 1B: Public Data, Reviewed before Release.

Data with reference to cave locations are Category 2: NonPublic Data, Internal Use and are covered under FOIA exemption 3: Information that is prohibited from disclosure by another federal law. In this case the Federal Cave Resources Protection Act of 1988.

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 BLM's 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 datasets and are in addition to, not replacements of, earlier submissions."

Oregon/Washington (OR/WA) Bureau of Land Management (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

This 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 dataset is not sensitive and there are no restrictions on access to this data, either from within the BLM or external to the BLM. This dataset falls under the standard Records Access Category 1B Public Data, Reviewed before release. This data is not to be made available on the public web.

There are no privacy issues or concerns associated with these data themes. A privacy impact assessment was submitted for this dataset on July 22, 2016.

1.5 Keywords

Keywords that can be used to locate this dataset include:

- BLM Thesaurus: Vegetation, Wildlife

- Additional keywords: Flora, Fauna, Botany, Threatened & Endangered, Special Status Species, Sensitive Species, Strategic Species
- ISO Thesaurus: biota, environment

1.6 Subject Function Codes

BLM Subject Function codes used to describe this dataset include:

- 1283 - Data Administration
- 6500 - Wildlife Management
- 6800 - Wildlife Population Management
- 6850 - Protection of Special Status Plants

2 Dataset Overview

2.1 Usage

This dataset is used to document BLM special status species observations, discrete locations, and biological 'clearance' surveys for use in NEPA analysis, ESA consultation for BLM actions, and for conservation planning strategies for special status and rare species groups. This dataset can be used to track the status of rare species through time (trend) and to document areas that have been surveyed and 'cleared' prior to BLM actions that could adversely affect BLM special status species. The dataset is also used by the Interagency Special Status & Sensitive Species Program to develop conservation planning documents and special status lists. The dataset is an important resource for historic and current documented rare species locations in the region. The data is shared with a variety of partner programs including the U.S. Forest Service (USFS), Oregon Biodiversity Information Center (ORBIC), Washington Natural Heritage Program (WNHP), and Washington Department of Fish and Wildlife (WDFW). The data is often requested by and shared with other federal agencies and state government agencies as well as a variety of requesting non-government organizations, businesses, and the public through various data sharing agreements.

GeoBOB Database application editors include BLM Oregon & Washington wildlife biologists, botanists, biological technicians, and GIS staff who have received formal training to use the database. Information about observations, sites, features, and surveys for threatened & endangered (TES), special status (SSS), Survey and Manage (S&M), and district priority species are entered into the database for all projects and monitoring as they occur on BLM lands, and annually by March 1st of each year. Managers, planners, and other specialists can view and query the GeoBOB dataset through the Oregon State Office GIS Layer Browser in Citrix ArcGIS.

2.2 Sponsor/Affected Parties

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

Affected parties include the Oregon Biodiversity Information Center (ORBIC), the Washington Natural Heritage Program (WNHP), the US Forest Service, and Washington Department of Fish & Wildlife (WDFW). The BLM also exchanges data for individual and groups of species with the Oregon Department of Fish & Wildlife (ODFW) and US Fish & Wildlife Service (USFWS) to support Species Status reviews, and other conservation efforts.

2.3 Relationship to Other Datasets, Databases, or Files

When the GeoBOB application was first created in 2005, local district databases and records from the Interagency Species Management System (ISMS), which included Special Status and Threatened & Endangered species from Oregon, Washington, and Northern California, were migrated into the dataset. Since its creation, the dataset has also integrated the data for all species locations from the former Survey and Manage mitigation of the Northwest Forest Plan, Oregon Bat Grid data for BLM lands, and Frank Isaac's Bald Eagle data for Oregon and parts of Washington. Non-corporate District datasets and pertinent non-BLM records that occur on BLM lands are migrated and entered into the dataset as staff resources and digital or paper records become available.

The dataset is located within the Oregon Data Framework (ODF) within the Resources section under Species Occurrences and within the Activities section under Surveys. The dataset includes a number of affiliations and relationships with other datasets within the Oregon Data Framework.

- **Marbled Murrelet** - The MAMU dataset is intended for entering observations, surveys, weather, and occupied sites for the marbled murrelet, a federally threatened species. Non-target species that are encountered during marbled Murrelet surveys are typically entered into GeoBOB as observations.
- **NSO (Northern Spotted Owl)** - The NSO tabular database is where information about observations, records of visits to known and potential owl locations, nest tree information, and annual summaries based on cumulative visits to owl sites is located. Access to the NSO database application requires access and training for the

GeoBOB database. If Northern Spotted Owls and Barred Owls are encountered during a survey incidentally, observation records would be entered into the NSO database. Non-target species that are encountered during spotted owl surveys are typically entered into GeoBOB as observations.

- **Micro*Storms** - This dataset is inherently affiliated with the Forestry database, Micro*Storms, which includes a Vegetation Publication (forest_MicroStorms_veg_pub.gdb). Often, the Forest Operations Inventory (FOI) Vegetation Publication dataset polygons are used to define survey polygons, especially on O&C lands in Western Oregon.
- **Grazing Allotments** - On Public Domain lands, the Grazing Allotments (Grazing_allotments.gdb) dataset is affiliated with this dataset because it is used to define survey polygons within pastures, especially for conducting Rangeland Health Assessments.
- **VMAP (Vegetation Management Action Portal)** - These same FOI and Grazing Allotment derived GeoBOB survey polygons are often used in the database since botanical (GeoBOB) and weed surveys (VMAP) are often done concurrently and within the same area.
- **ACEC (Areas of Critical Environmental Concern)** and Research Natural Areas (RNA) (areas_of_critical_concern.gdb) often contain valued rare species and have been designated and managed for those rare species. Rare species sites and surveys that occur within these ACEC are recorded in GeoBOB.
- **Sample Points (Fish)** - the Fish Sample Points dataset is where information about observations and surveys for fish species is located. Often, observations of wildlife species are made while these surveys are being conducted, and trained users can enter those records into Botany and Wildlife Survey and Observations using the S1 mobile app. This feature service (AquaBOB) allows the aquatics program to collect fauna observations, fauna detail observations, and photo attachments for approximately 30 aquatic associated species with sponsorship from a GeoBOB data steward.

There are a variety of other external datasets that are often used in conjunction or are otherwise affiliated with this dataset. Critical Habitat, which is designated for many Threatened & Endangered species by the U.S. Fish & Wildlife Service and National Marine Fisheries Service, is an important resource that is used in combination with this dataset and other observation data for planning and consultation with the Services. Additionally, there are a variety of management and conservation areas, habitat, modeled data, and other relevant datasets that are provided by partner agencies for focal species and are available in external sourced corporate data locations.

2.4 Data Category/Architecture Link

This data theme is a portion of the Oregon Data Framework (ODF) shown in Figure 1, Oregon Data Framework (ODF) Overview on page 16. The illustration is a simplified schematic of the entire ODF showing the overall organization and entity inheritance. 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
* 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 the basic data set 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 which all data of that type must follow.

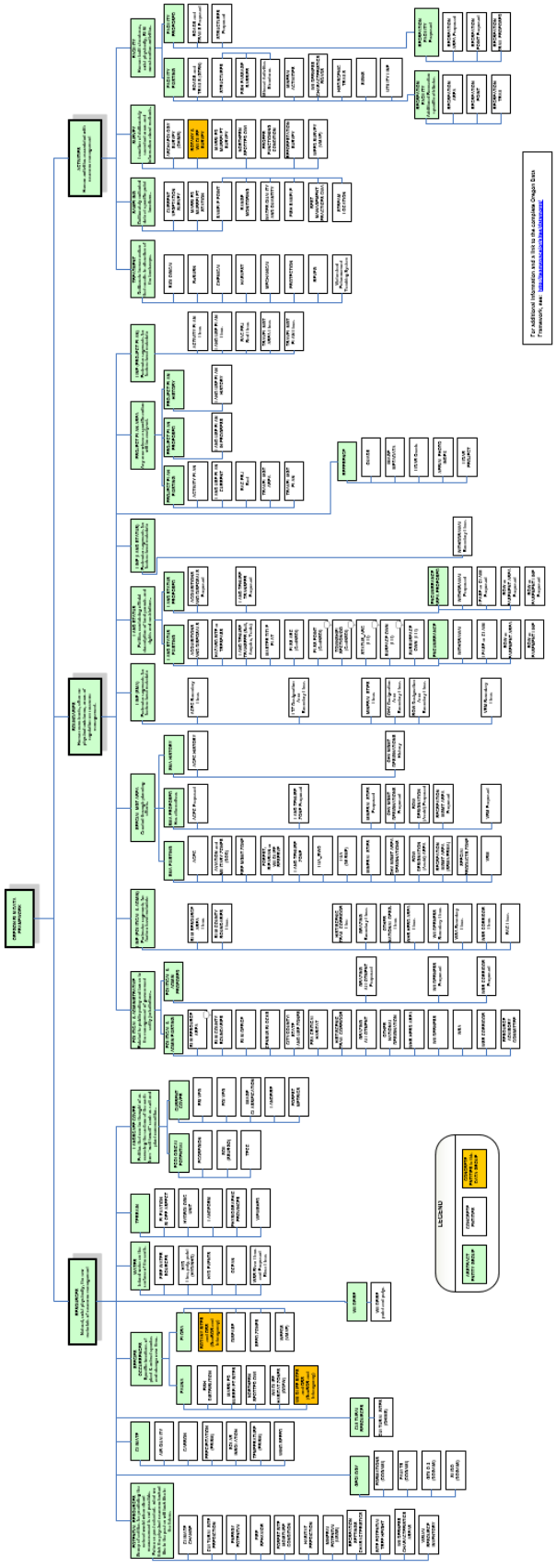

Figure 1 Oregon Data Framework Overview

Physical data is populated in the basic data sets. Those groups/categories above them do not contain actual data but set parameters that all data of that type must follow. See Figures 2-4, Data Organization Structure for a simplified schematic of the entire ODF showing the overall organization and entity inheritance. The Botany and Wildlife Observations and Surveys entities are highlighted. For additional information about the ODF, contact the State Data Administrator. The State Data Administrator's contact information can be found at the following link:

https://www.blm.gov/about/data/oregon-data-management

In the ODF, this dataset is considered a natural resource and activity and categorized as follows:

ODF

- Activities
  - Survey
    - SURVEY_POLY
    - SURVEY_PT
    - ADD_OBS
- Resources
  - Species Occurrences
    - Fauna
      - FAUNA_OBS_PT
      - FAUNA_SITE_POLY
      - FEATURE_POLY
      - FEATURE_PT
      - COLLECTIONS
    - Flora
      - FLORA_SITE_POLY
      - FLORA_OBS_PT
      - FEATURE_POLY
      - FEATURE_PT
      - COLLECTIONS

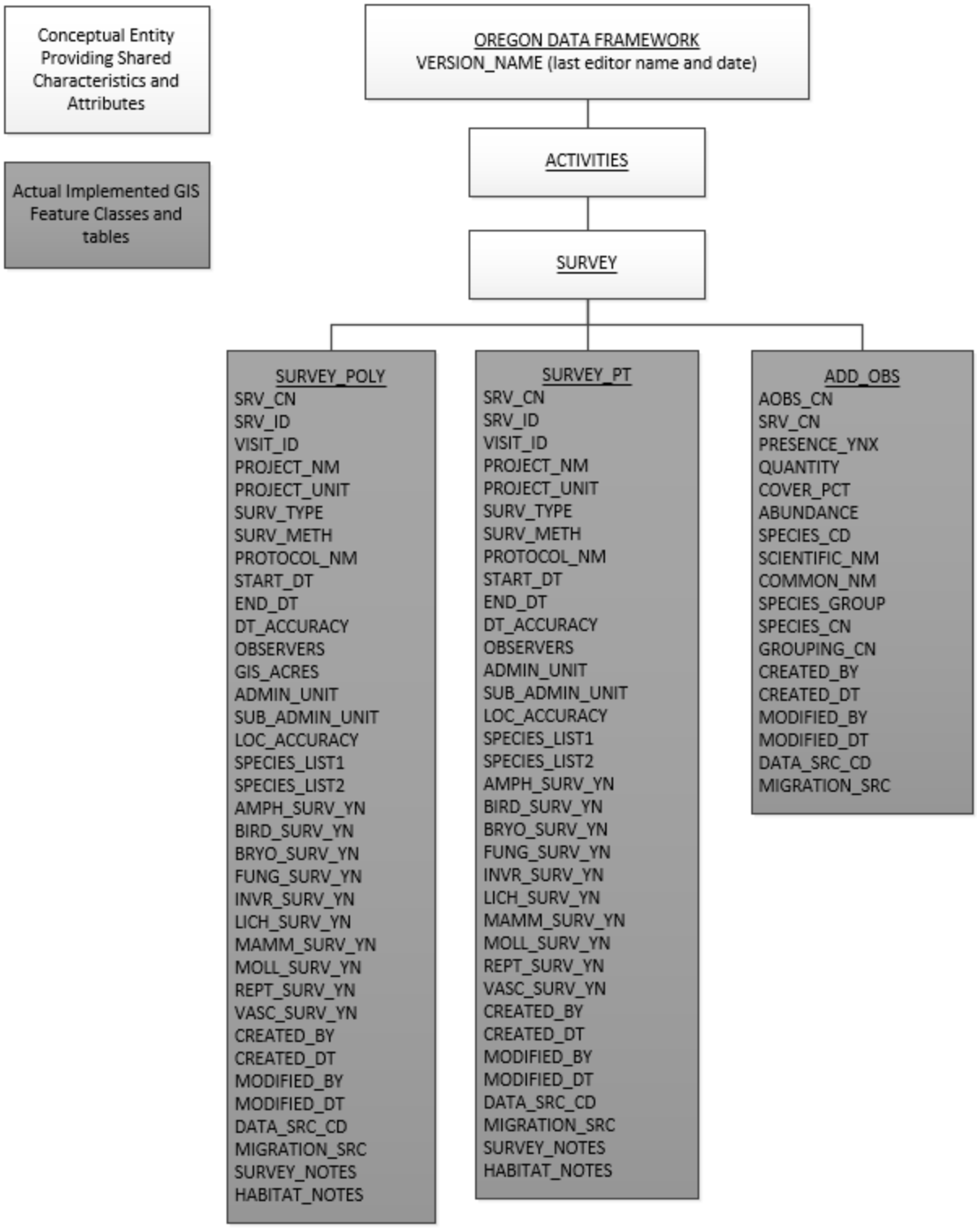

Figure 2 Data Organization Structure Surveys

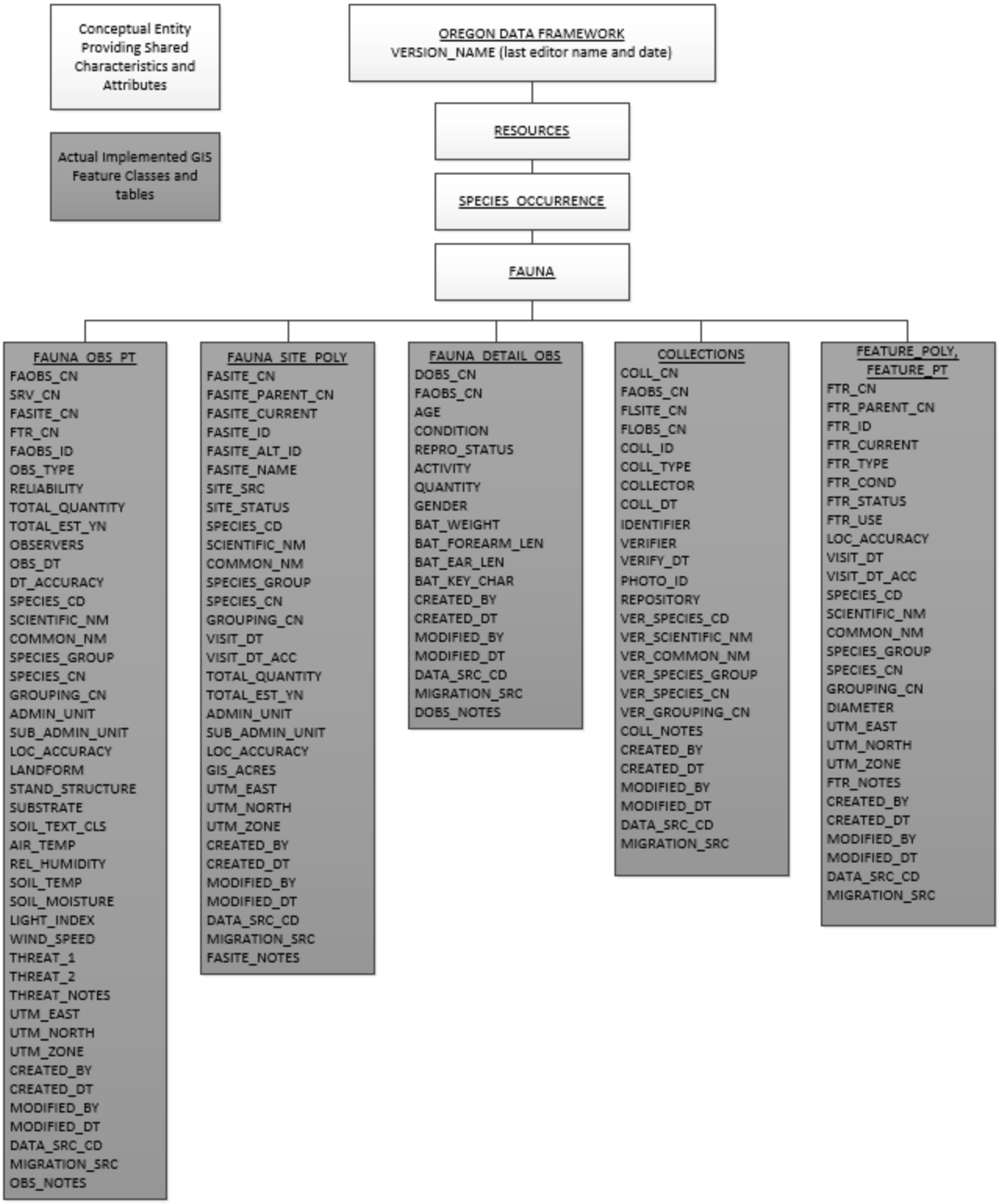

Figure 3 Data Organization Structure Occurrences - Fauna

Figure 4 **Data Organization Structure Occurrences - Flora**

2.5 Relationship to DOI Enterprise Architecture Data Resource Mode

The Department of the Interior (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, the Data Subject Area and Information Class are:

* Data Subject Area: Geospatial
* Information Class: Location

3 Data Management Protocols

3.1 Accuracy Requirements

Spatial Accuracy - This dataset requires the best possible spatial accuracy based on the tools and technologies available to document polygons, points, and their associated species data. All spatial features within the dataset, except for Survey Poly and Survey Pt, include UTM_EAST, UTM_NORTH, and UTM_ZONE Fields. These GPS fields identify the GPS units for those features and are automatically populated and required in the data set. Additionally, spatial accuracy attributes are automatically generated from mobile GIS. All features within the GeoBOB database have a field called LOC_ACCURACY, which describes the precision with which the recorded UTMs or lat/longs and the associated GIS digitized (electronic) point or polygon matches the actual ground site location. Domain values are included in the dom_GB_Map_Accuracy domain, and include GPS Unit precisions, manual digitization, legal descriptions, and Unknown or Vague map accuracies. Coordinates in the database are maintained as UTM. The values of required attributes have an accuracy of at least 95 percent. GPS location accuracy for sites and observations is usually +- 30ft, but this GPS accuracy is often limited by site conditions (ex. canopy cover).

Identification Accuracy - For Fauna Observations (FAUNA_OBS_PT), the required RELIABILITY field identifies a ranking of how reliable the Observation record is, based on the experience of the identifier or verifier. These rankings can be found in the Data Dictionary in the dom_GB_Reliability domain.

Date Accuracy - Some spatial features in GeoBOB (Fauna Obs, Survey Poly, and Survey Pt), include a date accuracy field that describes the accuracy of the date the observation or visit occurred. Examples of date accuracy include day, month, and year.

3.2 Collection, Input, and Maintenance Protocols

Biologists, technicians, seasonal staff, specialists, and contractors collect information about the surveys they conduct, the species they observe, collections they make, and associated biologically important features of the landscape through two primary methods:

- Paper Data Collection - data can be collected by using "GeoBOB Paper Field Forms," which includes forms for all the spatial features and tables in the dataset. These paper records and report forms are available for download on the GeoBOB SharePoint site. Once a form is used to collect data, the data is then manually entered into the dataset by using the GeoBOB Application for ArcGIS.
- Mobile Data Collection
    - S1 Mobile Mapper for Android - data can be collected with an Android phone or tablet by using the S1 Mobile Mapper application. This mobile data collection allows specialists to collect data through fillable forms on the device. District GIS specialists and trained stewards create feature services that are specific to their District, Resource Area, or program. These feature services can be tailored to included data for species specific to those programs, and access to these feature services are granted by their creator. Data is synced from the device back to the feature service regularly. The data is then downloaded from the feature service into the corporate dataset using the GeoBOB Application mobile tools.
    - S1 Toolbar - data can be collected using a Trimble Juno device. Data collectors download a mobile geodatabase onto their device using the GeoBOB mobile tools and the S1 mobile toolbar and collect data on the device by using ArcPad. The data is then submitted to the corporate dataset using the same tools.

To enter data into the dataset, one must first become an editor. To become a GeoBOB Editor, intended users attend an in-person or 1:1 training that provides an overview of the application, the programs it supports, its intended use, and general information about the database and its application. This training includes standardized training materials for entering wildlife, botany, and mobile data into the database. Once a prospective editor has received their training, they are sponsored by their District GIS Coordinator, and granted access to the dataset as an editor.

There are three categories of access to the production editable dataset:

- User - can view data.
- Editor - can enter data for their district and edit records they have created.
- Steward - can enter data for their district and edit records they and others have created.

Data is added to the dataset by creating an edit version using the GeoBOB Application. Records of observations, surveys, sites, etc. are input using GPS coordinates and digitized. Once records have been entered, the version is submitted after several quality control checks. The version and its new data are typically posted the next day.

On the last Thursday of each month, the database that houses the dataset (BIORSRC) goes through a monthly maintenance. All edit versions created during the monthly maintenance must be submitted by close of business on the last Wednesday of each month, since maintenance activities typically occur early on Thursday morning. If versions are not submitted by that time, they will often be deleted.

3.3 Update Frequency and Archival Protocols

Data is updated as needed, but at least annually. It is archived annually at the end of the fiscal year. Additionally, to maintain a current representation of surveys, observations, and sites in the dataset, all records collected in the previous year should be entered into the database by March 1st of the following year. An annual or 3-year Instruction Memorandum is issued that identifies and outlines this requirement.

3.4 Statewide Monitoring

The State Data Stewards include the Threatened & Endangered Species Program Lead, the Botany Program Lead, and the Regional Wildlife, Botany (GeoBOB) and Fisheries Data Coordinator. State Data Stewards are responsible for ensuring data is managed as a corporate resource, that new and existing users are trained and supported, and that information for special status species is being entered into the database annually. They coordinate with field office data stewards, the state data administrator, Geographic Information System (GIS) coordinators, and national data stewards. The State Data Stewards are responsible for approving and drafting data standards and business rules, reviewing metadata, providing technical support, developing Quality Assurance/Quality Control procedures, coordinating data exchange with agencies and the public, and identifying potential privacy issues. The GIS technical lead provides GIS technical support and application development.

4 Botany and Wildlife Observations and Surveys Schema (simplified)

General Information: Attributes are listed in the order they appear in the geodatabase feature class or table. 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. Current domains are found on the internal OR/WA SharePoint data management page. Some of the domains used in this data standard are also available at the following web site: https://www.blm.gov/about/data/oregon-data-management

For domains not listed at that site contact: State Data Administrator.

4.1 SURVEY_POLY Feature Class (Survey Polygons)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
SRV_CN	GUID			Yes *	
SURV_ID	String	50		Yes	
VISIT_ID	String	50		No	
PROJECT_NM	String	60		No	
PROJECT_UNIT	String	50		No	
SURV_TYPE	String	20		Yes	dom_GB_Srv_Type
SURV_METH	String	50		Yes	dom_GB_Srv_Method
PROTOCOL_NM	String	100		No	dom_GB_Protocol_Name
START_DT	Date			Yes	
END_DT	Date			No	
DT_ACCURACY	String	20	Day	Yes	dom_GB_Date_Accuracy
OBSERVERS	String	200		Yes	
GIS_ACRES	Double			Yes *	
ADMIN_UNIT	String	34		No *	dom_GB_Admin_Unit
SUB_ADMIN_UNIT	String	34		No *	dom_GB_Sub_Admin_Unit_Code
LOC_ACCURACY	String	15		Yes	dom_GB_Map_Accuracy
SPECIES_LIST1	String	15		No	dom_GB_Species_List
SPECIES_LIST2	String	15		No	dom_GB_Species_List
AMPH_SURV_YN	String	1		Conditional	dom_GB_YesNo
BIRD_SURV_YN	String	1		Conditional	dom_GB_YesNo
BRYO_SURV_YN	String	1		Conditional	dom_GB_YesNo
FUNG_SURV_YN	String	1		Conditional	dom_GB_YesNo
INVR_SURV_YN	String	1		Conditional	dom_GB_YesNo
LICH_SURV_YN	String	1		Conditional	dom_GB_YesNo

MAMM_SURV_YN	String	1		Conditional	dom_GB_YesNo
MOLL_SURV_YN	String	1		Conditional	dom_GB_YesNo
REPT_SURV_YN	String	1		Conditional	dom_GB_YesNo
VASC_SURV_YN	String	1		Conditional	dom_GB_YesNo
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src
SURVEY_NOTES	String	2000		No	
HABITAT_NOTES	String	2000		No	

* Values automatically generated

4.2 SURVEY_PT Feature Class (Survey Points)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
SRV_CN	GUID			Yes *	
SURV_ID	String	50		Yes	
VISIT_ID	String	50		No	
PROJECT_NM	String	60		No	
PROJECT_UNIT	String	50		No	
SURV_TYPE	String	20		Yes	dom_GB_Srv_Type
SURV_METH	String	50		Yes	dom_GB_Srv_Method
PROTOCOL_NM	String	100		No	dom_GB_Protocol_Name
START_DT	Date			Yes	
END_DT	Date			No	
DT_ACCURACY	String	20	Day	Yes	dom_GB_Date_Accuracy
OBSERVERS	String	200		Yes	
ADMIN_UNIT	String	34		No *	dom_GB_Admin_Unit
SUB_ADMIN_UNIT	String	34		No *	dom_GB_Sub_Admin_Unit_Code
LOC_ACCURACY	String	15		Yes	dom_GB_Map_Accuracy
SPECIES_LIST1	String	15		No	dom_GB_Species_List
SPECIES_LIST2	String	15		No	dom_GB_Species_List
AMPH_SURV_YN	String	1		Conditional	dom_GB_YesNo

BIRD_SURV_YN	String	1		Conditional	dom_GB_YesNo
BRYO_SURV_YN	String	1		Conditional	dom_GB_YesNo
FUNG_SURV_YN	String	1		Conditional	dom_GB_YesNo
INVR_SURV_YN	String	1		Conditional	dom_GB_YesNo
LICH_SURV_YN	String	1		Conditional	dom_GB_YesNo
MAMM_SURV_YN	String	1		Conditional	dom_GB_YesNo
MOLL_SURV_YN	String	1		Conditional	dom_GB_YesNo
REPT_SURV_YN	String	1		Conditional	dom_GB_YesNo
VASC_SURV_YN	String	1		Conditional	dom_GB_YesNo
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src
SURVEY_NOTES	String	2000		No	
HABITAT_NOTES	String	2000		No	

* Values automatically generated

4.3 FEATURE_POLY Feature Class (Feature Polygons)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
FTR_CN	GUID			Yes *	
FTR_PARENT_CN	GUID			Yes *	
FTR_ID	String	50		Yes	
FTR_CURRENT	String	5	1	Yes *	dom_GB_Current
FTR_TYPE	String	20		No	dom_GB_Ftr_Type
FTR_COND	String	20		No	dom_GB_Ftr_Condition
FTR_STATUS	String	20		Yes	dom_GB_Ftr_Status
FTR_USE	String	20		Yes	dom_GB_Ftr_Use
LOC_ACCURACY	String	15		No	dom_GB_Map_Accuracy
VISIT_DT	Date			Yes	
VISIT_DT_ACC	String	20	Day	Yes	dom_GB_Date_Accuracy
SPECIES_CD	String	10		No	
SCIENTIFIC_NM	String	100		Conditional *	

COMMON_NM	String	60		No *	
SPECIES_GROUP	String	35		Conditional *	
SPECIES_CN	String	34		Conditional *	
GROUPING_CN	String	34		Conditional *	
DIAMETER	Short Integer			No	
UTM_EAST	Long Integer			Yes *	
UTM_NORTH	Long Integer			Yes *	
UTM_ZONE	Short Integer			Yes *	
FTR_NOTES	String	2000		No	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src

* Values automatically generated

4.4 FEATURE_PT Feature Class (Feature Points)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
FTR_CN	GUID			Yes *	
FTR_PARENT_CN	GUID			Yes *	
FTR_ID	String	50		Yes	
FTR_CURRENT	String	5	1	Yes *	dom_GB_Current
FTR_TYPE	String	20		No	dom_GB_Ftr_Type
FTR_COND	String	20		No	dom_GB_Ftr_Condition
FTR_STATUS	String	20		Yes	dom_GB_Ftr_Status
FTR_USE	String	20		Yes	dom_GB_Ftr_Use
LOC_ACCURACY	String	15		No	dom_GB_Map_Accuracy
VISIT_DT	Date			Yes	
VISIT_DT_ACC	String	20	Day	Yes	dom_GB_Date_Accuracy
SPECIES_CD	String	10		No	
SCIENTIFIC_NM	String	100		Conditional *	
COMMON_NM	String	60		No *	
SPECIES_GROUP	String	35		Conditional *	

SPECIES_CN	String	34		Conditional *	
GROUPING_CN	String	34		Conditional	
DIAMETER	Short Integer			No	
UTM_EAST	Long Integer			Yes *	
UTM_NORTH	Long Integer			Yes *	
UTM_ZONE	Short Integer			Yes *	
FTR_NOTES	String	2000		No	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src

* Values automatically generated

4.5 FLORA_SITE_POLY Feature Class (Flora Site Polygons

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
FLSITE_CN	GUID			Yes *	
FLSITE_CURRENT	String	5	1	Yes *	dom_GB_Current
FLSITE_PARENT_CN	GUID			Yes *	
SRV_CN	GUID			No *	
FTR_CN	GUID			No *	
FLSITE_ID	String	50		Yes	
FLSITE_ID	String	100		No	
SPECIES_CD	String	10		Yes	
SCIENTIFIC_NM	String	100		Yes *	
COMMON_NM	String	60		No *	
SPECIES_GROUP	String	35		Yes *	
SPECIES_CN	String	34		Yes *	
GROUPING_CN	String	34		Yes *	
ADMIN_UNIT	String	34		Yes *	dom_GB_Admin_Unit
SUB_ADMIN_UNIT	String	34		Yes *	dom_GB_Sub_Admin_Unit_Code
LOC_ACCURACY	String	15		Yes	dom_GB_Map_Accuracy
GIS_ACRES	Double			Yes *	

OBSERVERS	String	250		Yes	
VISIT_DT	Date			Yes	
VISIT_DT_ACC	String	20	Day	Yes	dom_GB_Date_Accuracy
TOTAL_QUANTITY	Long Integer			Conditional	
TOTAL_EST_YN	String	2		Conditional	dom_GB_YesNoUnknown
SITE_STATUS	String	10		No	dom_GB_Site_Status
ABUNDANCE	String	20		Conditional	dom_GB_Abundance
SLOPE	Short Integer			Yes	dom_GB_Slope
ASPECT	Short Integer			Yes	dom_GB_Aspect
ELEV	Long Integer			Yes	dom_GB_Elevation
OVERSTORY	Short Integer			Yes	dom_GB_Percent
UNDERSTORY	Short Integer			Yes	dom_GB_Percent
SUBSTRATE	String	60		Conditional	dom_GB_Substrate
LIGHT_INDEX	String	20		Yes	dom_GB_Light_Index
PLANT_ASSOC	String	50		No	
ASSOC_SPECIES	String	250		No	
PHEN_BUD	Short Integer		-1	Yes	dom_GB_Percent
PHEN_FLOWER	Short Integer		-1	Yes	dom_GB_Percent
PHEN_FRUIT	Short Integer		-1	Yes	dom_GB_Percent
PHEN_VEGETATIVE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_JUVENILE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_REGROWTH	Short Integer		-1	Yes	dom_GB_Percent
PHEN_SENESCENT	Short Integer		-1	Yes	dom_GB_Percent
PHEN_DORMANT	Short Integer		-1	Yes	dom_GB_Percent
PHEN_DEAD	Short Integer		-1	Yes	dom_GB_Percent
PHEN_SPOROPHYTE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_WO_SPOROPHYTE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_SPOROCARP	Short Integer		-1	Yes	dom_GB_Percent
THREAT_1	String	25		No	dom_GB_Threat_Type
THREAT_2	String	25		No	dom_GB_Threat_Type
THREAT_NOTES	String	250		No	
FLSITE_NOTES	String	2000		No	
UTM_EAST	Long Integer			Yes *	
UTM_NORTH	Long Integer			Yes *	
UTM_ZONE	Short Integer			Yes *	
CREATED_BY	String	30		No *	

CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
VERSION_NAME	String	75	InitialLoad	Yes *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src

* Values automatically generated

4.6 FLORA_OBS_PT Feature Class (Flora Observation Points)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
FLOBS_CN	GUID			Yes *	
FLSITE_CN	GUID			Yes *	
FLOBS_ID	String	50		Yes	
FLOBS_ALT_ID	String	100		No	
SPECIES_CD	String	10		Yes	
SCIENTIFIC_NM	String	100		Yes *	
COMMON_NM	String	60		No *	
SPECIES_GROUP	String	35		Yes *	
SPECIES_CN	String	34		Yes *	
GROUPING_CN	String	34		Yes *	
ADMIN_UNIT	String	34		Yes *	dom_GB_Admin_Unit
SUB_ADMIN_UNIT	String	34		Yes *	dom_GB_Sub_Admin_Unit_Code
LOC_ACCURACY	String	15		Yes	dom_GB_Map_Accuracy
OBSERVERS	String	250		Yes	
VISIT_DT	Date			Yes	
VISIT_DT_ACC	String	20	Day	Yes	dom_GB_Date_Accuracy
QUANTITY	Long Integer			Conditional	
QUANTITY_EST_YN	String	2		Conditional	dom_GB_YesNoUnknown
ABUNDANCE	String	20		Conditional	dom_GB_Abundance
SLOPE	Short Integer			Yes	dom_GB_Slope
ASPECT	Short Integer			Yes	dom_GB_Aspect
ELEV	Long Integer			Yes	dom_GB_Elevation
OVERSTORY	Short Integer			Yes	dom_GB_Percent
UNDERSTORY	Short Integer			Yes	dom_GB_Percent

SUBSTRATE	String	60		Conditional	dom_GB_Substrate
LIGHT_INDEX	String	20		Yes	dom_GB_Light_Index
PLANT_ASSOC	String	50		No	
ASSOC_SPECIES	String	250		No	
PHEN_BUD	Short Integer		-1	Yes	dom_GB_Percent
PHEN_FLOWER	Short Integer		-1	Yes	dom_GB_Percent
PHEN_FRUIT	Short Integer		-1	Yes	dom_GB_Percent
PHEN_VEGETATIVE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_JUVENILE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_REGROWTH	Short Integer		-1	Yes	dom_GB_Percent
PHEN_SENESCENT	Short Integer		-1	Yes	dom_GB_Percent
PHEN_DORMANT	Short Integer		-1	Yes	dom_GB_Percent
PHEN_DEAD	Short Integer		-1	Yes	dom_GB_Percent
PHEN_SPOROPHYTE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_WO_SPOROPHYTE	Short Integer		-1	Yes	dom_GB_Percent
PHEN_SPOROCARP	Short Integer		-1	Yes	dom_GB_Percent
THREAT_1	String	25		No	dom_GB_Threat_Type
THREAT_2	String	25		No	dom_GB_Threat_Type
THREAT_NOTES	String	250		No	
FLSITE_NOTES	String	2000		No	
UTM_EAST	Long Integer			Yes *	
UTM_NORTH	Long Integer			Yes *	
UTM_ZONE	Short Integer			Yes *	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
VERSION_NAME	String	75	InitialLoad	Yes *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src

* Values automatically generated

4.7 FAUNA_SITE_POLY Feature Class (Fauna Site Polygons)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
FASITE_CN	GUID			Yes *	
FASITE_PARENT_CN	GUID			Yes *	
FASITE_CURRENT	String	5	1	Yes *	dom_GB_Current
FASITE_ID	String	50		Yes	
FASITE_ALT_ID	String	100		No	
FASITE_NAME	String	60		No	
SITE_SRC	String	15			
SITE_STATUS	String	10		No	dom_GB_Site_Status
SPECIES_CD	String	10		Yes	
SCIENTIFIC_NM	String	100		Yes *	
COMMON_NM	String	60		No *	
SPECIES_GROUP	String	35		Yes *	
SPECIES_CN	String	34		Yes *	
GROUPING_CN	String	34		Yes *	
VISIT_DT	Date			Yes	
VISIT_DT_ACC	String	20	Day	Yes	dom_GB_Date_Accuracy
TOTAL_QUANTITY	Long Integer			Conditional	
TOTAL_EST_YN	String	2		Conditional	dom_GB_YesNoUnknown
ADMIN_UNIT	String	34		Yes *	dom_GB_Admin_Unit
SUB_ADMIN_UNIT	String	34		Yes *	dom_GB_Sub_Admin_Unit_Code
LOC_ACCURACY	String	15		Yes	dom_GB_Map_Accuracy
GIS_ACRES	Double			Yes *	
UTM_EAST	Long Integer			Yes *	
UTM_NORTH	Long Integer			Yes *	
UTM_ZONE	Short Integer			Yes *	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src
FASITE_NOTES	String	2000		No	

* Values automatically generated

4.8 FAUNA_OBS_PT Feature Class (Fauna Observation Points)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
FAOBS_CN	GUID			Yes *	
SRV_CN	GUID			No *	
FASITE_CN	GUID			No *	
FTR_CN	GUID			No *	
FAOBS_ID	String	50		No	
OBS_TYPE	String	20		Yes	dom_GB_Obs_Type
RELIABILITY	String	10		Yes	dom_GB_Reliability
TOTAL_QUANTITY	Long Integer			No	
TOTAL_EST_YN	String	2		No	dom_GB_YesNoUnknown
OBSERVERS	String	250		Yes	
OBS_DT	Date			Yes	
DT_ACCURACY	String	20	Day	Yes	dom_GB_Date_Accuracy
SPECIES_CD	String	10		Yes	
SCIENTIFIC_NM	String	100		Yes *	
COMMON_NM	String	60		No *	
SPECIES_GROUP	String	35		Yes *	
SPECIES_CN	String	34		Yes *	
GROUPING_CN	String	34		Yes *	
ADMIN_UNIT	String	34		Yes *	dom_GB_Admin_Unit
SUB_ADMIN_UNIT	String	34		Yes *	dom_GB_Sub_Admin_Unit_Code
LOC_ACCURACY	String	15		Yes	dom_GB_Map_Accuracy
LANDFORM	String	20		No	dom_GB_Landform
STAND_STRUCTURE	String	20		No	dom_GB_Stand_Structure
SUBSTRATE	String	60		No	dom_GB_Substrate
SOIL_TEXT_CLS	String	50		No	dom_GB_Soil_Texture
AIR_TEMP	Short Integer			No	dom_GB_Temperature
REL_HUMIDITY	Short Integer			No	dom_GB_Humidity
SOIL_TEMP	Short Integer			No	dom_GB_Temperature
SOIL_MOISTURE	String	50		No	dom_GB_Soil_Moisture

LIGHT_INDEX	String	20		No	dom_GB_Light_Index
WIND_SPEED	String	10		No	dom_GB_Wind_Speed
THREAT_1	String	25		No	dom_GB_Threat_Type
THREAT_2	String	25		No	dom_GB_Threat_Type
THREAT_NOTES	String	250		No	
UTM_EAST	Long Integer			Yes *	
UTM_NORTH	Long Integer			Yes *	
UTM_ZONE	Short Integer			Yes *	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src
OBS_TYPE	String	2000		No	

* Values automatically generated

4.9 ADD_OBS Table (Additional Observations)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
AOBS_CN	GUID			Yes *	
SRV_CN	GUID			Yes *	
PRESENCE_YNX	String	2		Yes	dom_GB_Presence
QUANTITY	Long Integer			No	
COVER_PCT	Short Integer			No	dom_GB_Percent
ABUNDANCE	String	20		No	dom_GB_Abundance
SPECIES_CD	String	10		Yes	
SCIENTIFIC_NM	String	100		Yes *	
COMMON_NM	String	60		No *	
SPECIES_GROUP	String	35		Yes *	
SPECIES_CN	String	34		Yes *	
GROUPING_CN	String	34		Yes *	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	

MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src

* Values automatically generated

4.10 COLLECTIONS Table (Collections)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
COLL_CN	GUID			Yes *	
FAOBS_CN	GUID			No *	
FLSITE_CN	GUID			No *	
FLOBS_CN	GUID			No *	
COLL_ID	String	50		Yes	
COLL_TYPE	String	15		Yes	dom_GB_CollectType
COLLECTOR	String	250		Yes	
COLL_DT	Date			Yes	
IDENTIFIER	String	250		No	
VERIFIER	String	250		No	
VERIFY_DT	Date			No	
PHOTO_ID	String	50		No	
REPOSITORY	String	250		Yes	dom_GB_Repository
VER_SPECIES_CD	String	10		No	
VER_SCIENTIFIC_NM	String	100		No *	
VER_COMMON_NM	String	60		No *	
VER_SPECIES_GROUP	String	35		No *	
VER_SPECIES_CN	String	34		No *	
VER_GROUPING_CN	String	34		No *	
COLL_NOTES	String	2000		No	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src

* Values automatically generated

4.11 FAUNA_DETAIL_OBS Table (Fauna Detail Observations)

For domain and default values, see Section 0, **Attribute Characteristics and Definition** in this document.

Attribute Name	Data Type	Length	Default Value	Required	Domain
DOBS_CN	GUID			Yes *	
FAOBS_CN	GUID			Yes *	
AGE	String	15		No	dom_GB_Age_Class
CONDITION	String	10		No	dom_GB_Condition
REPRO_STATUS	String	35		No	dom_GB_Repro_Status
ACTIVITY	String	30		No	dom_GB_Activity
QUANTITY	Short Integer			No	
GENDER	String	20		No	dom_GB_Gender
BAT_WEIGHT	Double			No	
BAT_FOREARM_LEN	Double			No	
BAT_EAR_LEN	Double			No	
BAT_KEY_CHAR	String	50		No	
CREATED_BY	String	30		No *	
CREATED_DT	Date			No *	
MODIFIED_BY	String	30		No *	
MODIFIED_DT	Date			No *	
DATA_SRC_CD	String	10		Yes *	dom_GB_Data_Source
VERSION_NAME	String	75	InitialLoad	Yes *	
MIGRATION_SRC	String	50		No	dom_GB_Migration_Src
DOBS_NOTES	String	2000		No	

* Values automatically generated

5 Projection and Spatial Extent

All feature classes are in Geographic, North American Datum 83. Units are decimal degrees. Spatial extent (area of coverage) includes all lands managed by the BLM OR/WA, plus lands in Northern California for historic data. See the metadata for this dataset for more precise description of the extent.

6 Spatial Entity Characteristics

SURVEY POLYGONS (SURVEY_POLY)

Description: Each Survey polygon is an area of land that was surveyed for one or more species.

Geometry: Polygon; disjoint large areas or scattered small areas. Features may have donut holes or islands; features may overlap (stack) on each other. Multi-part features are allowed.

Topology: No topology enforced.

Integration Requirements: None

SURVEY POINTS (SURVEY_PT)

Description: Each point is a location of any survey without area. For example, the location of call or trap stations.

Geometry: Point; disjoint large areas or scattered small areas. Features may overlap (stack) on each other.

Topology: No topology enforced.

Integration Requirements: None

FEATURE POLYGONS (FEATURE_POLY)

Description: Each Feature polygon represents the area of any potentially biologically important aspect of the landscape (pond, talus slope, meadow). Features may be associated to Flora Sites or Fauna Observations.

Geometry: Polygon; disjoint large areas or scattered small areas. Features may have donut holes or islands; features may overlap (stack) on each other. Multi-part features are allowed.

Topology: No topology enforced.

Integration Requirements: None

FEATURE POINTS (FEATURE_PT)

Description: Each Feature point represents the location of a Feature that is too small to be represented as a polygon (tree, stump, bridge). Features may be associated to Flora Sites or Fauna Observations.

Geometry: Point; disjoint large areas or scattered small areas. Features may overlap (stack) on each other.

Topology: No topology enforced.

Integration Requirements: None

FAUNA OBSERVATION POINTS (FAUNA_OBS_PT)

Description: Fauna Observations are point locations where target species were observed; Observation Type must be noted (Observations can be visual, aural, or sign). Fauna Observations are required data entry records for target

wildlife species.

Geometry: Point; disjoint large areas or scattered small areas. Features may overlap (stack) on each other.

Topology: No topology enforced.

Integration Requirements: None

FAUNA SITE POLYGONS (FAUNA_SITE_POLY)

Description: Each Fauna Site polygon represents an area of biological importance for a specific wildlife species. A Fauna Site may encompass the location(s) of Observations of the species (where a pygmy rabbit was seen) and/or Features important to the species (a pygmy rabbit burrow) and is generally a location that biologists monitor.

Geometry: Polygon; disjoint large areas or scattered small areas. Features may have donut holes or islands; features may overlap (stack) on each other. Multi-part features are allowed.

Topology: No topology enforced.

Integration Requirements: None

FLORA OBSERVATION POINTS (FLORA_OBS_PT)

Description: Each Flora Observation represents a point location of the target species for which a Flora Site has been created. Flora Observations are not required data entry except when a Collection has been made in that case a Flora Observation must be made in order to correctly enter the related Collection data. Flora Observations can also be used to indicate individual plants.

Geometry: Point; disjoint large areas or scattered small areas. Features may overlap (stack) on each other.

Topology: No topology enforced.

Integration Requirements: None

FLORA SITE POLYGONS (FLORA_SITE_POLY)

Description: Each Flora Site polygon represents an area where the specific flora species is found. Flora Sites are required data entry records for target Plant, Lichen, and Fungi species. Flora Sites are often monitored.

Geometry: Polygon; disjoint large areas or scattered small areas. Features may have donut holes or islands; features may overlap (stack) on each other. Multi-part features are allowed.

Topology: No topology enforced.

Integration Requirements: None

7 Attribute Characteristics and Definition (In alphabetical order)

7.1 ABUNDANCE

Geodatabase Name	ABUNDANCE
BLM Structured Name	Abundance_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT, ADD_OBS
Definition	An assessment of how abundant the species is within the polygon or point. For Flora Sites and Flora Observations, if the species belongs to the Lichen or Bryophyte groups and the record created date is greater than 6/1/2012, Abundance is a required field.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_Abundance
Data Type	String (20)

7.2 ACTIVITY

Geodatabase Name	ACTIVITY
BLM Structured Name	Activity_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	The behavior of the individual at the time of the detection.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Activity
Data Type	String (30)

7.3 ADMIN_UNIT

Geodatabase Name	ADMIN_UNIT
BLM Structured Name	Administrative_Unit_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	The administrative unit on which the feature is located. Value is automatically assigned based on spatial location; however, the editor may adjust the value if needed.

Required/Optional	Required; except for SURVEY_POLY and SURVEY_PT.
Domain (Valid Values)	dom_GB_Admin_Unit
Data Type	String (34)

7.4 AGE

Geodatabase Name	AGE
BLM Structured Name	Age_Class_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	Development stage of a species observation.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Age_Class
Data Type	String (15)

7.5 AIR_TEMP

Geodatabase Name	AIR_TEMP
BLM Structured Name	Air_Temperature_Measure
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	Development stage of a species observation.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Temperature
Data Type	Short Integer

7.6 AMPH_SURV_YN

Geodatabase Name	AMPH_SURV_YN
BLM Structured Name	Amphibians_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Amphibian species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.

Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.7 AOBS_CN

Geodatabase Name	AOBS_CN
BLM Structured Name	Additional_Observations_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	ADD_OBS
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.8 ASPECT

Geodatabase Name	ASPECT
BLM Structured Name	Aspect_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	Dominant aspect of the location recorded in degrees (0-360). Historic records without a recorded value were assigned a value of -1.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Aspect
Data Type	Short Integer

7.9 ASSOC_SPECIES

Geodatabase Name	ASSOC_SPECIES
BLM Structured Name	Associated_Species_Text
Inheritance	Not Inherited
Alias Name	None

Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	A list of the dominant associated species at the site. This can include the overstory, shrub, and forb species. From this list, one should generally be able to ascertain what the plant association is.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: “CHRYS9,ONAC,BRTE”
Data Type	String (250)

7.10 BAT_EAR_LEN

Geodatabase Name	BAT_EAR_LEN
BLM Structured Name	Bat_Ear_Length_Measure
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	The length of the ear from the notch at the inner base of the ear and tragus to the longest point of the ear.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: 30.5
Data Type	Double

7.11 BAT_FOREARM_LEN

Geodatabase Name	BAT_FOREARM_LEN
BLM Structured Name	Bat_Forearm_Length_Measure
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	The length of the forearm to near millimeter using calipers to measure between elbow and wrist.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: 43.6
Data Type	Double

7.12 BAT_KEY_CHAR

Geodatabase Name	BAT_KEY_CHAR
BLM Structured Name	Bat_Key_Characteristic_Text
Inheritance	Not Inherited

Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	The measurement or characteristic used to make species determination.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: “Sonobat”
Data Type	String (50)

7.13 BAT_WEIGHT

Geodatabase Name	BAT_WEIGHT
BLM Structured Name	Bat_Weight_Measure
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	The weight of the bat in grams, to two decimal places.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: 3.7
Data Type	Decimal

7.14 BIRD_SURV_YN

Geodatabase Name	BIRD_SURV_YN
BLM Structured Name	Bird_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Bird species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.15 BRYO_SURV_YN

Geodatabase Name	BRYO_SURV_YN
BLM Structured Name	Bryophyte_Surveyed_Code
Inheritance	Not Inherited

Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Bryophyte species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.16 COLL_CN

Geodatabase Name	COLL_CN
BLM Structured Name	Collection_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.17 COLL_DT

Geodatabase Name	COLL_DT
BLM Structured Name	Collection_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	Date collection was made.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: 6/20/2019
Data Type	Date

7.18 COLL_ID

Geodatabase Name	COLL_ID
BLM Structured Name	Collection_Idenfier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	A user defined identifier for the record.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: “C_BigElkMeadow_17JUL08_AEK_IF-0027.w”
Data Type	String (50)

7.19 COLL_NOTES

Geodatabase Name	COLL_NOTES
BLM Structured Name	Collection_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	Additional information about the record.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: “Stalked ascomycete with a distinct cap. Brown to shades of purple .5-2 inch. Dry. Apex of stalk sometimes wrinkled. Spores 18-20 um long by 1-2 um needle like sometimes single septae”
Data Type	String (2000)

7.20 COLL_TYPE

Geodatabase Name	COLL_TYPE
BLM Structured Name	Collection_Type_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The reason for making the collection.
Required/Optional	Required
Domain (Valid Values)	dom_GB_CollectType
Data Type	String (15)

7.21 COLLECTOR

Geodatabase Name	COLLECTOR
BLM Structured Name	Collector_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The name of the person who made the collection.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: “John Doe”, “Mary Smith”
Data Type	String (250)

7.22 COMMON_NM

Geodatabase Name	COMMON_NM
BLM Structured Name	Species_Common_Name_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	ADD_OBS, FAUNA_OBS_PT, FAUNA_SITE_POLY, FEATURE_POLY, FEATURE_PT, FLORA_OBS_PT, FLORA_SITE_POLY
Definition	The common name of the species recorded at a Survey, Site, or Observation. For Features, it is the common name of the feature species. Not all species have an assigned common name. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Northern Flicker”, “Asotin milkvetch”
Data Type	String (60)

7.23 CONDITION

Geodatabase Name	CONDITION
BLM Structured Name	Species_Condition_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	Species condition description.
Required/Optional	Optional

Domain (Valid Values)	dom_GB_Condition
Data Type	String (10)

7.24 COVER_PCT

Geodatabase Name	COVER_PCT
BLM Structured Name	Species_Cover_Percentage_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	ADD_OBS
Definition	The estimated percent cover of an associated plant at a species observation.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.25 CREATED_BY

Geodatabase Name	CREATED_BY
BLM Structured Name	Record_Created_By_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, ADD_OBS, COLLECTIONS
Definition	Name of the user that created the record. It is required entry that is assigned by the program and is non-editable.
Required/Optional	Required
Domain (Valid Values)	No Domain
Data Type	String (30)

7.26 CREATED_DT

Geodatabase Name	CREATED_DT
BLM Structured Name	Record_Created_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY,

	FAUNA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, ADD_OBS, COLLECTIONS
Definition	Date that the record was created. It is required entry that is assigned by the program and is non-editable.
Required/Optional	Required
Domain (Valid Values)	No Domain
Data Type	Date

7.27 DATA_SRC_CD

Geodatabase Name	DATA_SRC_CD
BLM Structured Name	Data_Source_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, ADD_OBS, COLLECTIONS
Definition	An alphanumeric code designating the source of a database record. In conjunction with the GeoBOB application, this field controls if a user can edit or delete a record.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Data_Source
Data Type	String (10)

7.28 DIAMETER

Geodatabase Name	DIAMETER
BLM Structured Name	Diameter_Inches_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	The diameter (in inches) of the feature, if applicable. If the feature is a tree, record dbh.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: 24, 13
Data Type	Short Integer

7.29 DOBS_CN

Geodatabase Name	DOBS_CN

BLM Structured Name	Detail_Observations_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.30 DOBS_NOTES

Geodatabase Name	DOBS_NOTES
BLM Structured Name	Detail_Observation_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	Additional information about the Observation.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: "Juvenile, possibly 3 of them.", "VISUAL ON MALE ONLY. SPECIFIC LOCATION MAPPED FROM ROUTE FOLDER."
Data Type	String (2000)

7.31 DT_ACCURACY

Geodatabase Name	DT_ACCURACY
BLM Structured Name	Date_Accuracy_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FAUNA_OBS_PT
Definition	Describes the accuracy of the date.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Date_Accuracy
Data Type	String (20)

7.32 ELEV

Geodatabase Name	ELEV
BLM Structured Name	Elevation_Feet_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The average elevation (in feet) at the site or observation.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Elevation
Data Type	Long Integer

7.33 END_DT

Geodatabase Name	END_DT
BLM Structured Name	Survey_End_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The date the survey ended.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: 6/20/2010, 5/1/1989
Data Type	Date

7.34 FAOBS_CN

Geodatabase Name	FAOBS_CN
BLM Structured Name	Fauna_Observations_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT, COLLECTIONS, FAUNA_DETAIL_OBS
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships. This is a foreign key field in the Collections and Fauna Detail Obs tables.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.35 FAOBS_ID

Geodatabase Name	FAOBS_ID
BLM Structured Name	Fauna_Observation_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAOBS_PT
Definition	A user-defined identifier for the Observation record.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “626-MYCA-Voucher Specimen”, “CBSIGHT_1892”
Data Type	String (50)

7.36 FASITE_PARENT_CN

Geodatabase Name	FASITE _PARENT_CN
BLM Structured Name	Fauna_Site_Parent_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_SITE_POLY
Definition	When multiple visits are made to a site, the first visit is referred to as the parent and the control number is assigned to the parent cn field for all subsequent visits. This attribute provides a tabular link for all the site records.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: “{464432D1-538A-44CF-974A-F794ADC909B5}”
Data Type	GUID

7.37 FASITE_ALT_ID

Geodatabase Name	FASITE_ALT_ID
BLM Structured Name	Fauna_Site_Alternate_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_SITE_POLY
Definition	An alternate user defined identifier.
Required/Optional	Optional

Domain (Valid Values)	No Domain. Examples: “CEDAR BUTTE / ROUND ABOUT”, “OC2F”
Data Type	String (100)

7.38 FASITE_CN

Geodatabase Name	FASITE_CN
BLM Structured Name	Fauna_Site_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships. This is a foreign key field in the Fauna Observations feature class.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: “{464432D1-538A-44CF-974A-F794ADC909B5}”
Data Type	GUID

7.39 FASITE_CURRENT

Geodatabase Name	FASITE_CURRENT
BLM Structured Name	Fauna_Site_Current_Flag_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_SITE_POLY
Definition	Flag that denotes if the site is current or historical (1 - Current, 2 - Historical).
Required/Optional	Required
Domain (Valid Values)	dom_GB_Current
Data Type	Short Integer

7.40 FASITE_ID

Geodatabase Name	FASITE_ID
BLM Structured Name	Fauna_Site_Identifier_Text
Inheritance	Not Inherited
Alias Name	None

Feature Class Use/Entity Table	FAUNA_SITE_POLY
Definition	User defined site identifier.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: “OR_0043”, “BRID_MoffittRDFoxButteRD_0021001”
Data Type	String (50)

7.41 FASITE_NAME

Geodatabase Name	FASITE_NAME
BLM Structured Name	Fauna_Site_Name_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_SITE_POLY
Definition	A unique name of the site.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Echo Is/ Indian Charlie/ Brandy Bar”, “Aldrich Point”
Data Type	String (60)

7.42 FASITE_NOTES

Geodatabase Name	FASITE_NOTES
BLM Structured Name	Fauna_Site_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_SITE_POLY
Definition	Additional information about the Site.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “This took place on North Bank Habitat Management Area. All birds banded were between 9-28 days old and 1 adult dead and 2 juveniles dead, 48 fledged while pulling down gourds. All were banded on the left leg. Banded by Waces, Gayner, Worthing, and Albritten.”, “This took place on what was originally the Dunning Ranch before BLM took ownership. All birds banded were between 8-15 days old. All were banded on the left leg. Banded by Burns.”
Data Type	String (2000)

7.43 FLOBS_ALT_ID

Geodatabase Name	FLOBS_ALT_ID

BLM Structured Name	Flora_Observation_Alternate_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_OBS_PT
Definition	An alternate user defined identifier or name.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Oxbow West; West Eugene Wetlands”, “O'DELL #5986”
Data Type	String (100)

7.44 FLOBS_CN

Geodatabase Name	FLOBS_CN
BLM Structured Name	Flora_Observation_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_OBS_PT, COLLECTIONS
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships. This is a foreign key field in the Collections table.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: “{464432D1-538A-44CF-974A-F794ADC909B5}”
Data Type	GUID

7.45 FLOBS_ID

Geodatabase Name	FLOBS_ID
BLM Structured Name	Flora_Observation_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_OBS_PT
Definition	User defined observation identifier.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: “OR_0043”, “BRID_MoffittRDFoxButteRD_0021001”
Data Type	String (50)

7.46 FLSITE_PARENT_CN

Geodatabase Name	FLSITE_PARENT_CN
BLM Structured Name	Flora_Site_Parent_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY
Definition	When multiple visits are made to a site, the first visit is referred to as the parent and the control number is assigned to the parent cn field for all subsequent visits. This attribute provides a tabular link for all the site records.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.47 FLSITE_ALT_ID

Geodatabase Name	FLSITE_ALT_ID
BLM Structured Name	Flora_Site_Alternate_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY
Definition	An alternate user defined identifier or name.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: "Oxbow West; West Eugene Wetlands", "O'DELL #5986"
Data Type	String (100)

7.48 FLSITE_CN

Geodatabase Name	FLSITE_CN
BLM Structured Name	Flora_Site_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT, COLLECTIONS
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships. This is a foreign key field in the Flora Observations feature class and the Collections table.

Required/Optional	Required
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.49 FLSITE_CURRENT

Geodatabase Name	FLSITE_CURRENT
BLM Structured Name	Flora_Site_Current_Flag_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY
Definition	Flag that denotes if the site is current or historical (1 - Current, 2 - Historical).
Required/Optional	Required
Domain (Valid Values)	dom_GB_Current
Data Type	Short Integer

7.50 FLSITE_ID

Geodatabase Name	FLSITE_ID
BLM Structured Name	Flora_Site_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY
Definition	User defined site identifier.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: "OR_0043", "BRID_MoffittRDFoxButteRD_0021001"
Data Type	String (50)

7.51 FLSITE_NOTES

Geodatabase Name	FLSITE_NOTES
BLM Structured Name	Flora_Site_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY
Definition	Additional information about the Site.

Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: "One of 3 geographic sites in Swannack G.", "Very large population which could extend even past location estimate T26S-R45E-Sec9 ; UTM Zone 11 481673 E , 4795018 Take Leslie Gulch Rd west towards slocum campground. From the entrance to the recreation area (cattle guard), go approximately 0.7 miles down the road. The site is located about 750 feet south of the road. / Very good condition - high plant diversity, low invasives, no trampling"
Data Type	String (2000)

7.52 FTR_CN

Geodatabase Name	FTR_CN
BLM Structured Name	Feature_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships. This is a foreign key field in the Flora Site and Fauna Observation feature classes.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.53 FTR_COND

Geodatabase Name	FTR_COND
BLM Structured Name	Feature_Condition_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	The usability of the feature on the date it was visited.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Ftr_Condition
Data Type	String (20)

7.54 FTR_CURRENT

Geodatabase Name	FTR_CURRENT

BLM Structured Name	Feature_Current_Flag_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	Flag that denotes if the feature is current or historical (1 - Current, 2 - Historical).
Required/Optional	Required
Domain (Valid Values)	dom_GB_Current
Data Type	Short Integer

7.55 FTR_ID

Geodatabase Name	FTR_ID
BLM Structured Name	Feature_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	User defined identifier for the feature.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: “3702E17ACRLAK_STNE_NEST1992”, “GARTER SNAKE POND”
Data Type	String (50)

7.56 FTR_NOTES

Geodatabase Name	FTR_NOTES
BLM Structured Name	Feature_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	Additional information about the feature.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “Feature is a group of three ponds that have potential to host water howellia. These ponds should be surveyed for Howellia at the time the existing Howellia site at Fishtrap is monitored.”, “MOSSY OUTCROPS”
Data Type	String (2000)

7.57 FTR_PARENT_CN

Geodatabase Name	FTR_PARENT_CN
BLM Structured Name	Feature_Parent_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	When multiple visits are made to a feature, the first visit is referred to as the parent and the control number is assigned to the parent cn field for all subsequent visits. This attribute provides a tabular link for all the records.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.58 FTR_STATUS

Geodatabase Name	FTR_STATUS
BLM Structured Name	Feature_Status_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	A description of the feature occupancy status.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Ftr_Status
Data Type	String (20)

7.59 FTR_TYPE

Geodatabase Name	FTR_TYPE
BLM Structured Name	Feature_Type_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	An object or area that is being or may be used by the species of interest.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Ftr_Type
Data Type	String (20)

7.60 FTR_USE

Geodatabase Name	FTR_USE
BLM Structured Name	Feature_Use_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT
Definition	A description of how the feature is being or could be used.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Ftr_Use
Data Type	String (20)

7.61 FUNG_SURV_YN

Geodatabase Name	FUNG_SURV_YN
BLM Structured Name	Fungi_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Fungi species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.62 GENDER

Geodatabase Name	GENDER
BLM Structured Name	Gender_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	Identifies species gender.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Gender
Data Type	String (20)

7.63 GIS_ACRES

Geodatabase Name	GIS_ACRES
BLM Structured Name	GIS_Acres_Measure
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, FLORA_SITE_POLY, FAUNA_SITE_POLY
Definition	GIS_ACRES is calculated when the polygon is created or edited. The standard spatial reference of Geographic (NAD 1983) cannot be used for calculating acres, so the features are projected to one of three projections as determined by the BLM_ORG_CD of the record. These three projections all utilize linear units of meters, so the ESRI Geodatabase-controlled field SHAPE.AREA can be used to convert to acres with the factor based on the U.S. Survey Foot: GIS_ACRES = SHAPE.AREA * 0.0002471044
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: 1.081017, 11.588409
Data Type	Double

District indicated by BLM Org Code:	ESRI projection used:
Prineville	NAD 1983 USFS R6 Albers
Coos Bay, Lakeview, Medford, NW Oregon, Roseburg	NAD 1983 UTM Zone 10N
Burns, Spokane, Vale	NAD 1983 UTM Zone 11N

7.64 GROUPING_CN

Geodatabase Name	GROUPING_CN
BLM Structured Name	Species_Grouping_Control_Number_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	ADD_OBS, FAUNA_OBS_PT, FAUNA_SITE_POLY, FEATURE_POLY, FEATURE_PT, FLORA_OBS_PT, FLORA_SITE_POLY
Definition	The control number which groups synonyms or autonyms of the species recorded. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record. This field is required in all feature classes and tables listed except for FEATURE_POLY and FEATURE_PT.
Required/Optional	String
Domain (Valid Values)	No Domain. Examples: “35237”, “267”
Data Type	String (34)

7.65 HABITAT_NOTES

Geodatabase Name	HABITAT_NOTES
BLM Structured Name	Survey_Habitat_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Additional information about habitat or environmental conditions.
Required/Optional	Optional
Domain (Valid Values)	No domain. Example: “Soil is clay loam with small diameter gravel to scab flats along ridge top. Tract occupies flat meadows to steep ridge tops with all aspects represented. Vegetation consists of JUOC, Wyoming big sagebrush & bluebunch wheatgrass. There were nice mosses under trees and shrubs.”
Data Type	String (2000)

7.66 IDENTIFIER

Geodatabase Name	IDENTIFIER
BLM Structured Name	Collection_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The name of the person who verified the collection.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “John Doe”, “Mary Smith”
Data Type	String (250)

7.67 INVR_SURV_YN

Geodatabase Name	INVR_SURV_YN
BLM Structured Name	Invertebrate_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Invertebrate species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.

Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.68 LANDFORM

Geodatabase Name	LANDFORM
BLM Structured Name	Landform_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	Refers to the general geomorphic structure and shape of habitat.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Landform
Data Type	String (20)

7.69 LICH_SURV_YN

Geodatabase Name	LICH_SURV_YN
BLM Structured Name	Lichen_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Lichen species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.70 LIGHT_INDEX

Geodatabase Name	LIGHT_INDEX
BLM Structured Name	Light_Index_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_OBS_PT
Definition	Describes the amount of sun that hits a species Observation point.

Required/Optional	String
Domain (Valid Values)	dom_GB_Light_Index
Data Type	String (20)

7.71 LOC_ACCURACY

Geodatabase Name	LOC_ACCURACY
BLM Structured Name	Location_Accuracy_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	Describes the precision with which the recorded UTMs or lat/longs and the associated GIS digitized (electronic) point or polygon matches the actual ground site location.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Map_Accuracy
Data Type	String (15)

7.72 MAMM_SURV_YN

Geodatabase Name	MAMM_SURV_YN
BLM Structured Name	Mammal_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Mammal species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.73 MIGRATION_SRC

Geodatabase Name	MIGRATION_SRC
BLM Structured Name	Migration_Source_Code
Inheritance	Not Inherited

Alias Name	None
Feature Class Use/Entity Table	All feature classes
Definition	Field to track the source of data migrated into the dataset.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Migration_Src
Data Type	String (50)

7.74 MODIFIED_BY

Geodatabase Name	MODIFIED_BY
BLM Structured Name	Modified_By_Name
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, ADD_OBS, COLLECTIONS
Definition	Name of the user that last modified the record. It is required entry that is assigned by the program and is non-editable.
Required/Optional	Optional
Domain (Valid Values)	No Domain
Data Type	String (30)

7.75 MODIFIED_DT

Geodatabase Name	MODIFIED_DT
BLM Structured Name	Modified_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, ADD_OBS, COLLECTIONS
Definition	Date that the record was last modified. It is required entry that is assigned by the program and is non-editable.
Required/Optional	Optional
Domain (Valid Values)	No Domain
Data Type	Date

7.76 MOLL_SURV_YN

Geodatabase Name	MOLL_SURV_YN
BLM Structured Name	Mollusk_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Mollusk species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.77 OBS_DT

Geodatabase Name	OBS_DT
BLM Structured Name	Observation_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	The date of the observation.
Required/Optional	Required
Domain (Valid Values)	No domain. Examples: 1/1/2018, 12/30/1999
Data Type	Date

7.78 OBS_NOTES

Geodatabase Name	OBS_NOTES
BLM Structured Name	Observation_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	Additional information about the Observation.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “Incidental response while conducting NSO survey. Follow up next day provided no further response.”, “Visit #2; station #12. Song at 74 and 93 meters. / Cloud cover 0%; wind (Beaufort) = C.”

Data Type	String (2000)

7.79 OBS_TYPE

Geodatabase Name	OBS_TYPE
BLM Structured Name	Observation_Type_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	Type of detection by which species presence was determined.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Obs_Type
Data Type	String (20)

7.80 OBSERVERS

Geodatabase Name	OBSERVERS
BLM Structured Name	Observer_Names_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_OBS_PT
Definition	Name(s) of the observers.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: “John Doe”, “Mary Smith”
Data Type	String (250)

7.81 OVERSTORY

Geodatabase Name	OVERSTORY
BLM Structured Name	Overstory_Percent_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	A visual estimate of the percentage of the ground area covered by the canopy layer that generally receives light from all sides; dominate, co-dominate and open-grown trees.
Required/Optional	Required

Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.82 PHEN_BUD

Geodatabase Name	PHEN_BUD
BLM Structured Name	Phenology_Bud_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with mostly buds present.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.83 PHEN_DEAD

Geodatabase Name	PHEN_DEAD
BLM Structured Name	Phenology_Dead_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals without living tissue.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.84 PHEN_DORMANT

Geodatabase Name	PHEN_DORMANT
BLM Structured Name	Phenology_Dormant_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals that are alive but not growing.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.85 PHEN_FLOWER

Geodatabase Name	PHEN_FLOWER
BLM Structured Name	Phenology_Flower_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with mostly flowers present.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.86 PHEN_FRUIT

Geodatabase Name	PHEN_FRUIT
BLM Structured Name	Phenology_Fruit_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with vascular plant fruit.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.87 PHEN_JUVENILE

Geodatabase Name	PHEN_JUVENILE
BLM Structured Name	Phenology_Juvenile_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals that are immature vascular plants, fungi, bryophytes, or lichens.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.88 PHEN_REGROWTH

Geodatabase Name	PHEN_REGROWTH
BLM Structured Name	Phenology_Regrowth_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with new growth following removal of leaves.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.89 PHEN_SENESCENT

Geodatabase Name	PHEN_SENESCENT
BLM Structured Name	Phenology_Senescent_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with plant growth phase from full maturity to death that is characterized by the dying of tissues.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.90 PHEN_SPOROCARP

Geodatabase Name	PHEN_SPOROCARP
BLM Structured Name	Phenology_Sporocarp_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with the fruiting body of a fungus.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.91 PHEN_SPOROPHYTE

Geodatabase Name	PHEN_SPOROPHYTE
BLM Structured Name	Phenology_Sporophyte_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with sporophytes (spore producing structures) present.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.92 PHEN_VEGETATIVE

Geodatabase Name	PHEN_VEGETATIVE
BLM Structured Name	Phenology_Vegetative_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals with mainly foliage without fruits or flowers.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.93 PHEN_WO_SPOROPHYTE

Geodatabase Name	PHEN_WO_SPOROPHYTE
BLM Structured Name	Phenology_Without_Sporophyte_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	The percent of individuals without sporophytes (spore producing structures) present.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.94 PHOTO_ID

Geodatabase Name	PHOTO_ID
BLM Structured Name	Photo_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	A user defined photograph ID number.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “38S-5E-29 CLSA9 GV14-417 11-15-14”, “OR085.DSCN2723”
Data Type	String (50)

7.95 PLANT_ASSOC

Geodatabase Name	PLANT_ASSOC
BLM Structured Name	Plant_Association_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	Comprises the lowest level (Level 8) of the Natural Vegetation Classification System (NVCS). Plant Associations are generally classified by floristics (local species) and are based on diagnostic and/or dominant species and compositional similarity reflecting local to regional environments. Species reflected in an association are usually from multiple growth forms or layers, and more narrowly similar composition and is based on diagnostic and/or dominant species. (US NVC)
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Unknown”, “ACEMAC - PSEMEN / ACECIR / POLMUN”
Data Type	String (50)

7.96 PRESENCE_YNX

Geodatabase Name	PRESENCE_YNX
BLM Structured Name	Presence_Flag_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	ADD_OBS
Definition	Indicates whether a species was or was found or not.
Required/Optional	Required

Domain (Valid Values)	dom_GB_Presence
Data Type	String (2)

7.97 PROJECT_NM

Geodatabase Name	PROJECT_NM
BLM Structured Name	Project_Name_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The project name for the survey.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “TOPSY POKEGAMA SLASHBUSTING”, “Williams Vascular and Non-Vascular Surveys”
Data Type	String (60)

7.98 PROJECT_UNIT

Geodatabase Name	PROJECT_UNIT
BLM Structured Name	Project_Unit_Number_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Unit name or number within a project.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “17-2”, “003”
Data Type	String (50)

7.99 PROTOCOL_NM

Geodatabase Name	PROTOCOL_NM
BLM Structured Name	Protocol_Name_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The name of the protocol used to complete the survey.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Protocol_Name

Data Type	String (100)

7.100QUANTITY

Geodatabase Name	QUANTITY
BLM Structured Name	Quantity_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_OBS_PT, ADD_OBS, FAUNA_DETAIL_OBS
Definition	Total number of individuals at an Observation point.
Required/Optional	String
Domain (Valid Values)	No Domain. Examples: 1, 550
Data Type	Long Integer

7.101QUANTITY_EST_YN

Geodatabase Name	QUANTITY_EST_YN
BLM Structured Name	Quantity_Estimated_Flag_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_OBS_PT
Definition	Indicates whether the total quantity was an estimate or an actual count.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_YesNoUnknown
Data Type	String (2)

7.102 REL_HUMIDITY

Geodatabase Name	REL_HUMIDITY
BLM Structured Name	Relative_Humidity_Measure
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	The amount of water vapor in the air compared to the amount the air could hold if it was totally saturated (percent).
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Humidity

Data Type	Short Integer

7.103 RELIABILITY

Geodatabase Name	RELIABILITY
BLM Structured Name	Observation_Reliability_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	A ranking of how reliable the Observation record is, based on the expertise of the identifier and/or verifier.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Reliability
Data Type	String (10)

7.104 REPOSITORY

Geodatabase Name	REPOSITORY
BLM Structured Name	Collection_Repository_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The code and name of the repository that stores a species collection.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Repository
Data Type	String (250)

7.105 REPRO_STATUS

Geodatabase Name	REPRO_STATUS
BLM Structured Name	Reproductive_Status_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_DETAIL_OBS
Definition	Species reproductive status.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Repro_Status

Data Type	String (35)

7.106 REPT_SURV_YN

Geodatabase Name	REPT_SURV_YN
BLM Structured Name	Reptile_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Reptile species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.107 SCIENTIFIC_NM

Geodatabase Name	SCIENTIFIC_NM
BLM Structured Name	Species_Scientific_Name_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	ADD_OBS, FAUNA_OBS_PT, FAUNA_SITE_POLY, FEATURE_POLY, FEATURE_PT, FLORA_OBS_PT, FLORA_SITE_POLY
Definition	The scientific name of the species recorded at a Survey, Site, or Observation. For Features, it is the scientific name of the feature species. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record. This field is required in all feature classes and tables listed except for FEATURE_POLY and FEATURE_PT.
Required/Optional	String
Domain (Valid Values)	No Domain. Examples: “Haliaeetus leucocephalus”, “Stropharia albivelata”
Data Type	String (100)

7.108 SITE_SRC

Geodatabase Name	SITE_SRC

BLM Structured Name	Site_Source_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_SITE_POLY
Definition	The original document or database source of the site, if migrated.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “ISMS”, “WildSITE Databa”
Data Type	String (15)

7.109 SITE_STATUS

Geodatabase Name	SITE_STATUS
BLM Structured Name	Site_Status_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FAUNA_SITE_POLY
Definition	A description of the occupancy of the Site during the most recent visit.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Site_Status
Data Type	String (10)

7.110 SLOPE

Geodatabase Name	SLOPE
BLM Structured Name	Slope_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT
Definition	Dominant percent slope of location (100% is equivalent to a 45-degree incline).
Required/Optional	Required
Domain (Valid Values)	dom_GB_Slope
Data Type	Short Number

7.111 SOIL_MOISTURE

Geodatabase Name	SOIL_MOISTURE
BLM Structured Name	Soil_Moisture_Code

Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	A description of the amount of moisture in the soil.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Soil_Moisture
Data Type	String (50)

7.112 SOIL_TEMP

Geodatabase Name	SOIL_TEMP
BLM Structured Name	Soil_Temperature_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	Soil Temperature in degrees Fahrenheit.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Temperature
Data Type	Short Temperature

7.113 SOIL_TEXT_CLS

Geodatabase Name	SOIL_TEXT_CLS
BLM Structured Name	Soil_Texture_Class_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	The soil texture at the observation: Sand, silt, clay, etc.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Soil_Texture
Data Type	String (50)

7.114 SPECIES_CD

Geodatabase Name	SPECIES_CD
BLM Structured Name	Species_Code_Text
Inheritance	Not Inherited
Alias Name	None

Feature Class Use/Entity Table	ADD_OBS, FAUNA_OBS_PT, FAUNA_SITE_POLY, FEATURE_POLY, FEATURE_PT, FLORA_OBS_PT, FLORA_SITE_POLY
Definition	The short species identifier of the species recorded at a Survey, Site, or Observation. For Features, it is the species control number of the feature species. For plant species, this code is the USDA Plants Database plant symbol. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record. This field is required in all feature classes and tables listed except for FEATURE_POLY and FEATURE_PT.
Required/Optional	String
Domain (Valid Values)	No domain. Examples: “ASAR8”, “HALE”
Data Type	String (10)

7.115 SPECIES_CN

Geodatabase Name	SPECIES_CN
BLM Structured Name	Species_Control_Number_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	ADD_OBS, FAUNA_OBS_PT, FAUNA_SITE_POLY, FEATURE_POLY, FEATURE_PT, FLORA_OBS_PT, FLORA_SITE_POLY
Definition	The unique identifier of the species recorded at a Survey, Site, or Observation. For Features, it is the species control number of the feature species. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record. This field is required in all feature classes and tables listed except for FEATURE_POLY and FEATURE_PT.
Required/Optional	String
Domain (Valid Values)	No Domain. Examples: “12633”, “759”
Data Type	String (34)

7.116 SPECIES_GROUP

Geodatabase Name	SPECIES_GROUP
BLM Structured Name	Species_Group_Text
Inheritance	Not Inherited
Alias Name	None

Feature Class Use/Entity Table	ADD_OBS, FAUNA_OBS_PT, FAUNA_SITE_POLY, FEATURE_POLY, FEATURE_PT, FLORA_OBS_PT, FLORA_SITE_POLY
Definition	The taxa group of the species. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record. This field is required in all feature classes and tables listed except for FEATURE_POLY and FEATURE_PT.
Required/Optional	String
Domain (Valid Values)	No Domain. Examples: “Bird”, “Vascular_Plant”
Data Type	String (35)

7.117 SPECIES_LIST1

Geodatabase Name	SPECIES_LIST1
BLM Structured Name	First_Survey_Species_List_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The first documented species list that the survey was conducted for. Includes the ISSSSP and Survey and Manage lists. This field is used in conjunction with the species group fields to identify the groups of species surveyed for, without having to record each species inventoried.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Species_List
Data Type	String (15)

7.118 SPECIES_LIST2

Geodatabase Name	SPECIES_LIST2
BLM Structured Name	Second_Survey_Species_List_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The second documented species list that the survey was conducted for. Only record data in this field if there are more than one list surveyed for. Includes the ISSSSP and Survey and Manage lists. This field is used in conjunction with the species group fields to identify the groups of species surveyed for, without having to record each species inventoried.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Species_List

Data Type	String (15)

7.119 SRV_CN

Geodatabase Name	SRV_CN
BLM Structured Name	Survey_Control_Number_Identifier
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	This attribute is a primary key, unique GUID identifier assigned to records as they are entered. It is required data entry that is assigned by the GeoBOB application and is non-editable. This key is used for the various table relationships. This is a foreign key field in the Flora Site, Fauna Observations feature classes and the Additional Observations table.
Required/Optional	Required
Domain (Valid Values)	No Domain. Example: "{464432D1-538A-44CF-974A-F794ADC909B5}"
Data Type	GUID

7.120 STAND_STRUCTURE

Geodatabase Name	STAND_STRUCTURE
BLM Structured Name	Stand_Structure_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	The number of canopy layers.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Stand_Structure
Data Type	String (20)

7.121 START_DT

Geodatabase Name	START_DT
BLM Structured Name	Survey_Start_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The day the survey started.

Required/Optional	Required
Domain (Valid Values)	No domain. Examples: 10/1/2019, 1/1/2000
Data Type	Date

7.122 SUB_ADMIN_UNIT

Geodatabase Name	SUB_ADMIN_UNIT
BLM Structured Name	Sub_Administrative_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	The sub-administrative unit on which the record is located. For new records, values are auto calculated to the BLM resource area where the point or polygon centroid is located.
Required/Optional	String
Domain (Valid Values)	dom_GB_Sub_Admin_Unit_Code
Data Type	String (34)

7.123 SUBSTRATE

Geodatabase Name	SUBSTRATE
BLM Structured Name	Substrate_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	The substance that typifies the species habitat. In the case of habitat - frequently rock type.
Required/Optional	String
Domain (Valid Values)	dom_GB_Substrate
Data Type	String (60)

7.124 SURV_ID

Geodatabase Name	SURV_ID
BLM Structured Name	Survey_Identifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT

Definition	User defined survey ID (unique for all surveys within the administrative unit).
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: “BP3208W11U007”, “MEASFCR_LUCKY”
Data Type	String (50)

7.125 SURV_METH

Geodatabase Name	SURV_METH
BLM Structured Name	Survey_Method_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The method used to complete the survey.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Srv_Method
Data Type	String (50)

7.126 SURV_TYPE

Geodatabase Name	SURV_TYPE
BLM Structured Name	Survey_Type_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	The reason for doing the survey.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Srv_Type
Data Type	String (20)

7.127 SURVEY_NOTES

Geodatabase Name	SURVEY_NOTES
BLM Structured Name	Survey_Notes_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Additional information about the Survey.

Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Ridgeline, seasonal drainages, rock outcrops. Elev 3300-3400'. Extremely narrow ridgeline, mid-seral, extremely open understory, fuels treatment evident.”, “This was a survey to detect any unique sand habitats. None were observed.”
Data Type	String (2000)

7.128 THREAT_1

Geodatabase Name	THREAT_1
BLM Structured Name	First_Threat_Type_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	1st Threat Code. List of codes for factors that may have adverse effects on the persistence of the species at a given location.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Threat_Type
Data Type	String (25)

7.129 THREAT_2

Geodatabase Name	THREAT_2
BLM Structured Name	Second_Threat_Type_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	2nd Threat Code. List of codes for factors that may have adverse effects on the persistence of the species at a given location.
Required/Optional	Optional
Domain (Valid Values)	dom_GB_Threat_Type
Data Type	String (25)

7.130 THREAT_NOTES

Geodatabase Name	THREAT_NOTES
BLM Structured Name	Threat_Notes_Text
Inheritance	Not Inherited
Alias Name	None

Feature Class Use/Entity Table	FLORA_SITE_POLY, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	Additional information about the threat.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Cheatgrass & Russian thistle”, “Habitat loss, conifer succession”
Data Type	String (250)

7.131 TOTAL_EST_YN

Geodatabase Name	TOTAL_EST_YN
BLM Structured Name	Total_Quantity_Estimated_Flag_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	Indicates whether the total quantity was an estimate or an actual count.
Required/Optional	String
Domain (Valid Values)	dom_GB_YesNoUnknown
Data Type	String (2)

7.132 TOTAL_QUANTITY

Geodatabase Name	TOTAL_QUANTITY
BLM Structured Name	Total_Quantity_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	The total number of individuals at an observation point or site.
Required/Optional	String
Domain (Valid Values)	No Domain. Examples: 1, 550
Data Type	Long Integer

7.133 UNDERSTORY

Geodatabase Name	UNDERSTORY
BLM Structured Name	Understory_Percent_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FLORA_SITE_POLY, FLORA_OBS_PT

Definition	A visual estimate of the percentage of cover for seedlings, saplings, intermediate and suppressed trees.
Required/Optional	Required
Domain (Valid Values)	dom_GB_Percent
Data Type	Short Integer

7.134 UTM_EAST

Geodatabase Name	UTM_EAST
BLM Structured Name	Universal_Transverse_Mercator_Easting_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	The UTM Easting coordinate of the point or polygon centroid. For features with a longitude less than 120 degrees UTMs are calculated based on UTM Zone 11, NAD 83; features with a longitude greater than 120 degrees, UTMs are calculated based on UTM Zone 10, NAD 83.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: 452079, 514373
Data Type	Long Integer

7.135 UTM_NORTH

Geodatabase Name	UTM_NORTH
BLM Structured Name	Universal_Transverse_Mercator_Northing_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	The UTM Northing coordinate of the point or polygon centroid. For features with a longitude less than 120 degrees UTMs are auto calculated based on UTM Zone 11, NAD 83; features with a longitude greater than 120 degrees, UTMs are calculated based on UTM Zone 10, NAD 83.
Required/Optional	Required
Domain (Valid Values)	No domain. Examples: 5019127, 4817574
Data Type	Long Integer

7.136 UTM_ZONE

Geodatabase Name	UTM_ZONE

BLM Structured Name	Universal_Transverse_Mercator_Zone_Number
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT
Definition	The UTM grid zone that the record is located in. Auto calculated by the GeoBOB application from the point feature or polygon centroid.
Required/Optional	Required
Domain (Valid Values)	No Domain. Examples: 10, 11
Data Type	Short Integer

7.137 VASC_SURV_YN

Geodatabase Name	VASC_SURV_YN
BLM Structured Name	Vascular_Plant_Surveyed_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	Indicates if species in the Vascular Plant species group were the target of the Survey. Conditionally required - at least one of the Species Group surveyed for fields must be set to Yes.
Required/Optional	Conditional
Domain (Valid Values)	dom_GB_YesNo
Data Type	String (1)

7.138 VER_COMMON_NM

Geodatabase Name	VER_COMMON_NM
BLM Structured Name	Verified_Species_Common_Name_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The common name of the species that was collected and verified. Not all species have an assigned common name. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Northern Flicker”, “Asotin milkvetch”

Data Type	String (60)

7.139 VER_GROUPING_CN

Geodatabase Name	VER_GROUPING_CN
BLM Structured Name	Verified_Species_Grouping_Control_Number_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The control number which groups the synonyms and/or autonyms of the verified species. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “35237”, “267”
Data Type	String (34)

7.140 VER_SCIENTIFIC_NM

Geodatabase Name	VER_SCIENTIFIC_NM
BLM Structured Name	Verified_Species_Scientific_Name_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The scientific name of the species that was collected and verified. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Haliaeetus leucocephalus”, “Stropharia albivelata”
Data Type	String (100)

7.141 VER_SPECIES_CD

Geodatabase Name	VER_SPECIES_CD
BLM Structured Name	Verified_Species_Code
Inheritance	Not Inherited
Alias Name	None

Feature Class Use/Entity Table	COLLECTIONS
Definition	The short species identifier of the species that was collected and verified. For plant species, this code is the USDA Plants Database plant symbol. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “ASAR8”, “HALE”
Data Type	String (10)

7.142 VER_SPECIES_CN

Geodatabase Name	VER_SPECIES_CN
BLM Structured Name	Verified_Species_Control_Number_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The unique identifier of the species that was collected and verified. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “12633”, “759”
Data Type	String (34)

7.143 VER_SPECIES_GROUP

Geodatabase Name	VER_SPECIES_GROUP
BLM Structured Name	Verified_Species_Group_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The taxa group of the verified species. Acceptable values are listed in the SPECIES_MASTER_LIST table. This field is auto populated by the GeoBOB application if the editor uses the species selector tool to assign a species to a record.
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “Bird”, “Vascular_Plant”
Data Type	String (35)

7.144 VERIFIER

Geodatabase Name	VERIFIER
BLM Structured Name	Collection_Verifier_Text
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The name of the person who verified the collection.
Required/Optional	Optional
Domain (Valid Values)	No domain. Examples: “John Doe”, “Mary Smith”
Data Type	String (250)

7.145 VERIFY_DT

Geodatabase Name	VERIFY_DT
BLM Structured Name	Collection_Verification_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	COLLECTIONS
Definition	The date the collection was verified.
Required/Optional	Required
Domain (Valid Values)	No domain. Examples: 10/1/2019, 1/1/2000
Data Type	Date

7.146 VERSION_NAME

Geodatabase Name	VERSION_NAME
BLM Structured Name	Geodatabase_Version_Text
Inheritance	Inherited from Entity ODF
Alias Name	None
Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT, FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY, FAUNA_OBS_PT, ADD_OBS, COLLECTIONS, FAUNA_DETAIL_OBS
Definition	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. Name of the corporate geodatabase version previously used to edit the record. InitialLoad = 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.
Required/Optional	Required (automatically generated)
Domain (Valid Values)	None. Example: JDOE.GEOBOB_101119-100721
Data Type	String (50)

7.147 VISIT_DT

Geodatabase Name	VISIT_DT
BLM Structured Name	Visit_Date
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY
Definition	The date of the visit.
Required/Optional	String
Domain (Valid Values)	No domain. Examples: 10/1/2019, 1/1/2000
Data Type	Date

7.148 VISIT_DT_ACC

Geodatabase Name	VISIT_DT_ACC
BLM Structured Name	Visit_Date_Accuracy_Code
Inheritance	Not Inherited
Alias Name	None
Feature Class Use/Entity Table	FEATURE_POLY, FEATURE_PT, FLORA_SITE_POLY, FLORA_OBS_PT, FAUNA_SITE_POLY
Definition	Describes the accuracy of the visit date.
Required/Optional	String
Domain (Valid Values)	dom_GB_Date_Accuracy
Data Type	String (20)

7.149 VISIT_ID

Geodatabase Name	VISIT_ID
BLM Structured Name	Visit_Identifier_Text
Inheritance	Not Inherited
Alias Name	None

Feature Class Use/Entity Table	SURVEY_POLY, SURVEY_PT
Definition	User defined visit ID (unique for all visits within the administrative unit).
Required/Optional	Optional
Domain (Valid Values)	No Domain. Examples: “KEEL-PLOT11V1-DN”, “MEASTF17AS1”
Data Type	String (50)

7.150 WIND_SPEED

Geodatabase Name	WIND_SPEED
BLM Structured Name	Wind_Speed_Code
Inheritance	Inherited from Entity ODF
Alias Name	None
Feature Class Use/Entity Table	FAUNA_OBS_PT
Definition	Estimated wind speed range in miles per hour.
Required/Optional	Required (automatically generated)
Domain (Valid Values)	dom_GB_Wind_Speed
Data Type	String (10)

8 Layer Files (Publication Views)

8.1 General

Master corporate feature classes/datasets maintained in the edit database (currently ORSOEDIT) are "published" to the user database (currently ORSOVCTR) in several ways:

* Copied completely with no changes (replicated).
* Copied with no changes except to omit one or more feature classes from a feature dataset.
* Minor changes made (e.g., clip, dissolve, union with ownership) in order to make the data easier to use. Feature classes that have been changed are indicated by "PUB" in their name. 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.

8.2 Specific to This Dataset

This dataset is replicated as-is to a geodatabase called geobob.gdb in the OR/WA standard corporate data replication area. The one exception is that the VERSION_NAME field in each table or feature class is removed in the publication copy of the data.

Layer files are available in the Layer Browser (under district OSO) under the categories:

Wildlife

GeoBOB Wildlife

Vegetation and Ecoregions

This dataset is not replicated to the public web.

9 Editing Procedures

9.1 Managing Overlap (General Guidance)

"Overlap" means there are potentially more than one feature in the same feature class that occupies the same space ("stacked" polygons). Depending on the query, acres will be double counted.

In this discussion, an area entity may consist of more than one polygon, and a line entity may consist of more than one arc. They would have multiple records in the spatial table (with identical attributes). Multi-part features are not allowed. Multi-part features are easily created inadvertently and not always easy to identify. If they are not consciously and consistently avoided, feature classes will end up with a mixture of single and multi-part features. Multi-part features can be more difficult to edit, query, and select, along with impacting overall performance.

Overlap is only allowed in the ODF in limited and controlled scenarios. In each case, the "cause" of the overlap (the attribute changes that "kick off" a new feature which may overlap an existing feature) is carefully defined and controlled. In other words, in feature classes that permit overlap for a change in spatial extent, there is always a new feature created which may overlap an existing feature, but in addition there are certain attribute(s) that will result in a new feature even if there is no spatial change. The feature classes (and the one feature dataset) that allow overlap, and the attributes that lead to a new, possibly overlapping feature, are described below.

9.1.1 Overlapping Polygons where polygons are part of a POLY/ARC feature dataset.

Topology rules apply only to the POLY/ARC relationship (Polylines in the POLY feature class covered by arcs in the ARC feature class and vice versa; Arcs must not have dangles, intersect, self-overlap or overlap adjacent arcs). The AVY_PLAN dataset allows any number of plans or projects to overlap; a new PLANID creates a new polygon. For all other POLY/ARC feature datasets, overlap is only allowed if there is a dataset for proposed entities, for example proposed ACEC (ACEC_P POLY/ARC dataset) or wilderness (WLD_P POLY/ARC dataset).

9.1.2 Overlapping Polygons where polygons are a stand-alone feature class.

* No topology rules.
* Species Occurrence Group: These are distinct sites defined by species and time. A different species creates a new polygon which may overlap another site in whole or part. A change in time (new visit date) will create a new polygon if it is desired that the old spatial extent and date is retained (as historic). Additionally, for wildlife, a different season/type of use (e.g., winter range vs. spring breeding) will create new polygon that may overlap others. Examples: WEEDS_POLY, FLORA_SITE.
* Survey Group: Within each feature class a new survey is created only for a new date. This group might also include proposed surveys in separate feature classes. Examples: SURVEY_POLY, Archeological Survey (CULT_SURV).
* Treatment Activity Group: Within each feature class (BURN, HARV, MECH, CHEM, BIO, REVEG, PROT), an overlapping treatment area is created only for a new date, and sometimes for a different method (if it is not possible to SPLIT the treatment area by method and it is important to capture more than one method applied to the same area on the same day). This group also includes proposed treatments which could overlap existing treatments and have additional overlap created by different treatment alternatives
* Recreation Site Polygons (RECSITE_POLY): An overlapping site polygon is created only for different name, type, or development level.
* Land Status Encumbrances Group: A new, possibly overlapping polygon is created for a new casefile number even if it is the same area. Examples: easement/ROW areas (ESMTROW_POLY) and land acquisitions/disposals (ACQ_DSP_POLY).

9.1.3 Overlapping Arcs where arcs are a stand-alone feature class.

* No topology rules.

* Examples: easement/ROW lines (ESMTROW_ARC) a new, possibly overlapping arc is created for a new casefile number; structures (STRCT_ARC) a new, possibly overlapping arc is created for a different name, type, RIPS number or construction date.

9.1.4 Overlapping Points.

Generally, these are allowed and do not cause a problem since points have no spatial extent. However, it is easy to inadvertently create more than one point making it important to search for and delete duplicates.

9.2 Editing Quality Control

Duplicate features. Checking for undesired duplicates is critical. Polygons or arcs that are 100% duplicate are easily found by searching for identical attributes along with identical Shape_Area and/or Shape_Length. Searching for partially overlapping arcs or polygons is harder, and each case must be inspected to determine if the overlap is desired or not.

To avoid overlapping polygons on the same area, polygons from different input themes are incorporated with the Union spatial overlay tool, not copied.

Union rather than Intersect is used to prevent unintended data loss.

Gap and overlap slivers. These can be hard to find if there are no topology rules. A temporary map topology can be created to find overlap slivers. Gap slivers can be found by constructing polygons from all arcs and checking polygons with very small area.

Buffer and dissolve considerations. Where polygons are created with the buffer tool, the correct option must be selected. The default option is "None," which means overlap will be retained. Sometimes the overlap should be dissolved, and the option changed to "All." Lines resulting from buffer have vertices too close together, especially around the end curves. They should be generalized to thin the vertices. If the dissolve tool is used on polygons or arcs, the "Create multipart features" should be unchecked.

GPS considerations. GPS linework is often messy and should always be checked and cleaned up, as necessary. Often vertices need to be thinned (generalize) especially at line ends. Multi-part polygons are sometimes inadvertently created when GPS files with vertices too close together or crossing lines or spikes are brought into ArcGIS. Tiny, unwanted polygons are created but are "hidden" because they are in a multi-part.

Be careful when merging lines. Multi-part lines will be created if there are tiny unintentional (unknown) gaps, and it can be difficult to find these unless the multi-parts are exploded.

Null geometry. Check any features that have 0 or very small Shape_Area or Shape_Length. If a feature has 0 geometry and you cannot zoom to it, it is probably an inadvertently created "Null" feature and should be deleted. Very small features may also be unintended, resulting from messy line work.

Check tolerances. In general, set Cluster Tolerance as small as possible. This is 0.000000009 Degree (0.000007 degree is approximately 1 meter).

Snapping considerations. 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 PLSS (CadNSDI points/lines) first, with DLG or SOURCEL next, then DEM, and MAP last. When snapping to the data indicated in COORD_SRC (as opposed to duplicating with copy/paste), be sure there are the same number of vertices in the target, and source theme arcs. When the DEF_FEATURE is "SUBDIVISION," snap the line segment to PLSS points, and make sure there are the same number of vertices in the line as PLSS points.

Check that all date fields contain valid dates in YYYYMMDD, YYYYMM or YYYY format. If an attribute has a domain, check for invalid values. The values must be exact.

Check for capitalization and spacing differences in attribute values that should be the same. Check for leading or **trailing** blanks what will make a different value even if it looks identical.

9.3 Theme Specific Guidance

There is much in this data standard that addresses editing and provides guidance especially in the Data Management Protocols (Section 3).

Detailed instructions for editing data using the GeoBOB tools are available in the GeoBOB user guide and recorded trainings.

10 Abbreviations and Acronyms

Does not include abbreviations/acronyms used as codes for data attributes or domain values.

Table 2 Abbreviations/Acronyms Used

Abbreviations	Descriptions
ARC	GIS line feature
BLM	Bureau of Land Management, U.S. Department of the Interior
CADNSDI	Cadastral National Spatial Data Infrastructure
DEM	Digital Elevation Model
DLG	Digital Line Graphs
FOIA	Freedom of Information Act
FOIVEG	Forest Operations Inventory
GIS	Geographic Information System
GPS	Global Positioning System
GTRN	Ground Transportation GIS dataset
IDP	Interdisciplinary
NAD	North American Datum
NARA	National Archives and Records Administration
NEPA	National Environmental Policy Act
POLY	GIS polygon feature
PUB	Publication
RMP	Resource Management Plan
ODF	Oregon Data Framework
OR/WA	Oregon/Washington BLM Administrative State
USFS	United States Forest Service, U.S. Department of Agriculture
USGS	United States Geological Survey, U.S. Department of the Interior
SDE	Spatial Database Engine
WEB	Worldwide Web (internet)
WODDB	Western Oregon Digital Database

11 References

US National Vegetation Classification. Natural Vegetation Classification. http://usnvc.org/data-standard/natural-vegetation-classification/

A Domains (Valid Values)

These are the domains at the time the data standard was approved. Domains can be changed without a re-issue of the data standard. Current domains are found on the internal OR/WA SharePoint data management page. Some of the domains used in this data standard are also available at the following web site: http://www.blm.gov/or/datamanagement/index.php

For domains not listed at that site contact: contact the State Data Administrator.

A.1 dom_GB_Abundance

GeoBOB Abundance Code. Assessment of how abundant the species is within the polygon or point.

Code	Description
Absent	Absent - not encountered
Abundant	Abundant - Encountered continuously/numerous individuals
Common	Common - Encountered often/moderate number of individuals
Rare	RETIRED: Rare - Seldom encountered/very few individuals
Uncommon	Uncommon - Not encountered often/relatively low number of individuals
Unknown	Unknown - Abundance unspecified
Very Uncommon	Very Uncommon - Less common than uncommon

A.2 dom_GB_Activity

GeoBOB Activity Code. The behavior of the individual at the time of the detection.

Code	Description
Basking	Basking - Resting in a sunny location
Bedding	Bedding - Sleeping or in preparation for sleeping
Begging	Begging - Soliciting food from an adult or parent
Birthing	Birthing - The act of giving birth
Branching	Branching - young birds perched outside of the nest on limbs of the nest tree.
Brooding/Incub	Brooding/Incub - Sitting on eggs
Circling	Circling - Flying in a circular pattern
Dead	Dead - No longer living.
Denning	Denning - Inhabiting a ground shelter
Displaying	Displaying - A type of courting activity
Estivating	Estivating - Summer dormancy
Feeding/Drink	Feeding/Drink - Any eating or drinking activity including feeding young
Fighting	Fighting - Engaged in physical aggression
Fledging	Fledging - first flight from the nest after acquiring feather
Fleeing	Fleeing - Moving swiftly away from
Flushed	Flushed - flying/exposed/chased from a place of concealment
Flying	Flying - Traveling by air
Grooming	Grooming - Cleaning
Hatching	Hatching - The process of breaking out of the egg.
Hibernating	Hibernating - Winter dormancy
Hunting/Forage	Hunting/Forage - Searching for food
Licking Minerals	Licking Minerals - Ingesting soil at a known mineral concentration
Mating/Courting	Mating/Courting - Any mating behavior prior to copulation

Code	Description
Migrating	Migrating - Seasonal movement
Nesting	Nesting - Building or occupying a nest
Other	Other - Any activity not captured in the list of values
Pair Formation	Pair Formation - A behavior signifying the formation of a mating pair
Perching	Perching - standing in elevated spot (e.g., branch)
Pipping	Pipping - The process of breaking open an eggshell using an egg tooth.
Pseudoincubation	Pseudoincubation - A bird assuming the incubation position without egg.
Responding to	Responding to Call - A vocal response to a human-created call
Resting	Resting - Stopping action for an extended period
Roosting	Roosting - Resting on a perch for an extended period
Soaring	Soaring - The act of flying by utilizing ascending air currents.
Swimming	Swimming - Moving through water
Tending	Tending young
Territorial	Territorial Behavior - Behavior in defense of resources and or to attract a mate
Unknown	Unknown - An activity was not determined
Vocal	Vocal - An audible sound detected
Walking	Walking - Moving slowly by foot
Wallowing	Wallowing - Wading or rolling on the ground

A.3 dom_GB_Admin_Unit

GeoBOB Admin Unit Code. The administrative unit on which the record is located.

Code	Description
ARMY	ARMY CORPS - Army Corps of Engineers
CAC05	CAC05 - UKIAH FIELD OFFICE
CAC06	CAC06 - BAKERSFIELD FIELD OFFICE
CAN03	CAN03 - ARCATA FIELD OFFICE
CAN06	CAN06 - REDDING FIELD OFFICE
COUNTY	COUNTY - County-owned land such as parks and waysides
FS	FS - Forest Service Administrative Unit
FWR	FWR - Fish and Wildlife Refuge
KSDATA	KSDATA - Known Sites Data
NPS	NPS - National Park Service Administrative Unit
ORB00	ORB00 - BURNS DISTRICT OFFICE
ORC00	ORC00 - COOS BAY DISTRICT OFFICE
ORL00	ORL00 - LAKEVIEW DISTRICT OFFICE
ORM00	ORM00 - MEDFORD DISTRICT OFFICE
ORN00	ORN00 - NW OREGON DISTRICT OFFICE
ORP00	ORP00 - PRINEVILLE DISTRICT OFFICE
ORR00	ORR00 - ROSEBURG DISTRICT OFFICE
ORV00	ORV00 - VALE DISTRICT OFFICE
ORW00	ORW00 - SPOKANE DISTRICT OFFICE
OTHER	OTHER FEDERAL - Federal lands not described by other categories
PRIVATE	PRIVATE - Private Administrative Unit
STATE	STATE - State Administrative Unit

Code	Description
STATEPARK	STATEPARK - State Park
TRIBAL	TRIBAL - Native American tribal lands
Unspecified	Unspecified - Unspecified Administrative Unit

A.4 dom_GB_Age_Class

GeoBOB Age Class Code. Development stage of a species observation.

Code	Description
Adult	Adult - Able to reproduce
Chick	Chick - Newly hatched young of any bird
Egg Mass	Egg Mass - Group of eggs
Egg/Embryo	Egg/Embryo - Not yet hatched
Fledgling	Fledgling - Can fly, but depends on parents
Hatchling	Hatchling - Recently hatched, downy
Juvenile	Juvenile - Has not reached sexual maturity
Larvae	Larvae - Pre-adult stage of many insects & amphibians
Live (mollusk)	RETIRED: Live (mollusk) - Mollusk found alive in its shell
Metamorphosing	Metamorphosing - Larval to adult phase
Nestling	Nestling - Has not left the nest
Pupae	Pupae - Inactive phase from larvae to adult
Shell (mollusk)	RETIRED: Shell (mollusk) - Mollusk shell found with no live animal.
Sub-adult	Sub-adult - Independent, but unable to reproduce
Tadpole	Tadpole - Larval stage of a frog or toad
Unknown	Unknown - Unknown age
Yearling	Yearling - Has not completed its second year
Young	Young - In the early stages of development

A.5 dom_GB_Aspect

GeoBOB Aspect range of values. This is a short integer type range domain with allowable values between -1 and 360.

A.6 dom_GB_CollectType

GeoBOB Collection Type Code. The reason for making a collection of a plant or animal.

Code	Description
Audio	Audio - an animal sound recorded in order to determine species identity
Cast	Cast - The indigestible matter expelled by owls/raptors
Commercial	Commercial - Collected to make a profit
DNA	DNA - Any genetic material that determines individual hereditary characteristic
Depredation	Depredation - Permitted take of animals threatening human, livestock, crops
Hair	Hair - A portion of hair found
ID Tag	ID Tag - Identification tag or band assigned for tracking purposes
Museum	Museum - Museum collection

Code	Description
Necropsy	Necropsy - The examination of a dead animal
None	None - No collection made
Other	Other - The collection type does not appear in the list of values
Pellets/Scat	Pellets/Scat - Animal droppings
Photo	Photo - any photograph taken at the species Observation point
Seedbank	Seedbank - Seeds collected for storage
Voucher	Voucher - Any type of collection made to help document identity

A.7 dom_GB_Condition

GeoBOB Condition Code. Species condition description.

Code	Description
Dead	Dead - No longer living
Excellent	Excellent - Better than average
Fair	Fair - Less than average
Good	Good - Normal
Injured	Injured - Physical damage
Live	Live - A living animal
Poor	Poor - Poor
Shell	Shell - An empty shell
Sick	Sick - Physical illness
Unknown	Unknown - Condition is unknown

A.8 dom_GB_Current

GeoBOB Current Code. Code to denote if the site or feature is current or historical. Used to differentiate between the most current visit and past visits.

Code	Description
1	Current - most recent visit to a site or feature
2	Historic - previous visit to a site or feature

A.9 dom_GB_Data_Source

GeoBOB Data Source Code. The source of the database record. Used to control if a user is allowed to edit or deleted a record.

Code	Description
ORB00	ORB00 - BLM Oregon Burns District Office
ORC00	ORC00 - BLM Oregon Coos Bay District Office
ORL00	ORL00 - BLM Oregon Lakeview District Office
ORM00	ORM00 - BLM Oregon Medford District Office
ORN00	ORN00 - BLM Oregon NW Oregon District Office
ORP00	ORP00 - BLM Oregon Prineville District Office

Code	Description
ORR00	ORR00 - BLM Oregon Roseburg District Office
ORV00	ORV00 - BLM Oregon Vale District Office
ORW00	ORW00 - BLM Oregon Spokane District Office
BLMOR950	BLMOR950 - BLM Oregon - Portland State Office
BLMCA330	BLMCA330 - BLM California - Arcata Resource Area
BLMCA340	BLMCA340 - BLM California - Ukiah Field Office
BLMCA360	BLMCA360 - BLM California - Redding Resource Area
AMPH_TL	AMPH_TL - Amphibian Taxa Lead
ARMG	ARMG - Air Resource Management Group
BRYO_TL	BRYO_TL - Bryophyte Taxa Lead
FS06	FS06 - US Forest Service PNW Region
FS0601	FS0601 - Deschutes National Forest
FS0602	FS0602 - Fremont National Forest
FS0603	FS0603 - Gifford Pinchot National Forest
FS0604	FS0604 - Malheur National Forest
FS0605	FS0605 - Mt. Baker-Snoqualmie National Forest
FS0606	FS0606 - Mt. Hood National Forest
FS0607	FS0607 - Ochoco National Forest
FS0608	FS0608 - Okanogan National Forest
FS0609	FS0609 - Olympic National Forest
FS0610	FS0610 - Rogue River National Forest
FS0611	FS0611 - Siskiyou National Forest
FS0612	FS0612 - Siuslaw National Forest
FS0614	FS0614 - Umatilla National Forest
FS0615	FS0615 - Umpqua National Forest
FS0616	FS0616 - Wallowa-Whitman National Forest
FS0617	FS0617 - Wenatchee National Forest
FS0618	FS0618 - Willamette National Forest
FS0620	FS0620 - Winema National Forest
FS0621	FS0621 - Colville National Forest
FS0622	FS0622 - Columbia River Gorge NSA
FS2605	FS2605 - Corvallis Forestry Sciences Lab
FUNGI_TL	FUNGI_TL - Fungi taxa lead
KSBETA	KSBETA - Known Sites Beta Data Source
MOL_TL	MOL_TL - Mollusk Taxa Lead
NPSCRLA	NPSCRLA - Crater Lake National Park
NPSMORA	NPSMORA - Mount Rainer National Park
NPSNOCA	NPSNOCA - North Cascades National Park
NPSOLYM	NPSOLYM - Olympic National Park
NPSREDW	NPSREDW - Redwood National Park
PCGPIPE	PCGPIPE - Pacific Connector Gas Pipeline
STRAT_SV	STRAT_SV - Strategic Surveys Data Entry Group

A.10 dom_GB_Date_Accuracy

GeoBOB Date Accuracy Code. Describes the accuracy of the date recorded.

Code	Description
Day	Day - Only the exact day, month, and year is known.
Month	Month - Only the exact month and year is known.
Previous Year	RETIRED: Previous Year - Only the previous year is known.
Unknown	Unknown - The accuracy of the date is unknown
Year	Year - Only the exact year is known.

A.11 dom_GB_Elevation

GeoBOB Elevation range of values. This is a long integer type range domain with allowable values between -1 and 20000.

A.12 dom_GB_Ftr_Condition

Feature Condition Code. Used to record the usability of a feature on the date it was visited.

Code	Description
Not	Not Applicable - Condition is not relevant.
Unknown	Unknown - Condition was or cannot be determined.
Unusable	Unusable - The feature is no longer useable
Usable	Usable - The feature is usable

A.13 dom_GB_Ftr_Status

GeoBOB Feature Status Code. A description of the feature occupancy status.

Code	Description
Admin use	Admin use - Feature use by target species not determined, but managed as if used by sp.
Assumed	Assumed occupancy - Assumed occupancy It is assumed that the feature is occupied
In use	In use - Feature is being used
Not in use	Not in use - Feature is not being used
Potential	Potential use - There is potential for the feature to be used
Unknown	Unknown - Feature status was not recorded

A.14 dom_GB_Ftr_Type

GeoBOB Feature Type Code. Records the type of object or area that is being or may be used by the species of interest.

Code	Description
Agricultural_Land	Agricultural_Land - Land used for raising crops or livestock
Bank	Bank - Ground bordering a stream, lake, road, etc.
Bark	Bark - Attached, loose, or detached bark

Code	Description
Bedrock	Bedrock - Solid rock that underlies any surface material
Bird/Bat_Box	Bird/Bat_Box - Box made to provide shelter for birds/bats
Bog	Bog - Water-logged area with low-nutrient, acidic soil
Bole	Bole - Trunk portion of tree
Boulder	Boulder - Rock fragments larger than a cobble
Branch	Branch - Woody limb of a tree or shrub
Bridge	Bridge - Any structure that provides access over an obstacle
Brush/Slash_Pile	Brush/Slash_Pile - A mound of cut or woody debris
Building	Building - A human-made structure
Burrow	Burrow - A hole in the ground made by an animal
Burrow System	Burrow System - A group of burrow entrances
Cave	Cave - An underground hollow with an opening
Cavity	Cavity - A hollow or hole, usually in a tree
Cliff	Cliff - Steep or overhanging rock face
Cobble	Cobble - Particles larger than a pebble, smaller than a boulder (>64 mm)
Communal Day Roost	Communal Day Roost - (Bats)
Communal Night Roost	Communal Night Roost - (Bats)
Crevice	Crevice - Narrow opening or recess
Dead Shrub	Dead Shrub - Any shrub that is no longer living
Deciduous_Leaves	Deciduous_Leaves - Leaf debris from a deciduous tree
Den	Den - A shelter often used for giving birth
Ditch	Ditch - A long narrow excavation in the earth
Duff	Duff - Organic top layer of forested soils
Dung/Scat	Dung/Scat - Animal droppings
Fen	Fen - A nutrient-rich wetland that is less acidic than a bog
Fence	Fence - A barrier to mark off a boundary
Forb	Forb - Herbaceous plant other than grass
Fungi	Fungi - Any type of fungus used as substrate
Gravel	Gravel - Rock particles mostly larger than sand (>2mm)
Guzzler/Cistern	Guzzler/Cistern - A water catchment system
Hibernaculum	Hibernaculum - The shelter of a hibernating animal (bats)
Hive	Hive - A structure that houses bees or other invertebrates
Human Structure	Human Structure - Any structure made by humans (i.e., house)
Lake	Lake - A large inland body of standing water
Ledge	Ledge - Narrow shelf on a rock wall or cliff face
Lichen	Lichen - Any type of lichen used as substrate
Litter	Litter - Vegetative debris on the forest floor
Log	Log - The large trunk of a fallen tree.
Marsh	Marsh - soft wet land with monocots
Meadow	Meadow - Meadow where moisture level is unknown
Meadow-Dry	Meadow-Dry - A meadow with no wetland features
Meadow-Moist	Meadow-Moist - A meadow with only seasonally saturated soil
Meadow-Wet	Meadow-Wet - A meadow with year-round saturated soil

Code	Description
Mine	Mine - Excavation for the extraction of mineral deposits
Mineral_Deposit	Mineral_Deposit - Area of naturally occurring mineral material
Moss	Moss - Any type of moss used as substrate
Needles	Needles - A litter layer of evergreen needles
Nest	Nest - Natural nest built by wildlife
Nest_BW	Nest_BW - Natural wildlife nest on Branch Whorl
Nest_CAV	Nest_CAV - Natural wildlife nest in tree Cavity
Nest_FT	Nest_FT - Natural wildlife nest in Forked Top
Nest_MT	Nest_MT - Natural wildlife nest in Mistletoe Cluster
Nest_NNV	Nest_NNV -Natural wildlife nest assumed present based on sign. No Nest Visible.
Nest_PBC	Nest_PBC - Natural wildlife nest in Palmate Branch Cluster
Nest_SB	Nest_SB - Natural wildlife nest on Single Large Branch
Nest_Structure	Nest_Structure - Human made nest structure
Opening/Clearing	Opening/Clearing - A piece of land with few or no trees amongst a wooded area
Other	Other - The feature is not listed in the list of values
Pasture	Pasture - Land used for grazing livestock or wildlife
Pebble	Pebble - Particles larger than a granule (>2mm), smaller than a cobble (<64mm)
Pole/Post	Pole/Post - A long, typically wooden, rod
Pond	Pond - Body of standing water smaller than a lake
Potential Habitat	Potential Habitat - Habitat with the potential to support a species
Reintroduction Site	Reintroduction Site
Riparian	Riparian - Land areas directly influenced by a body of water
Road	Road - Any type of road that can be used as a feature
Rock	Rock - Unspecified rock type
Rock_Garden-Moist	Rock_Garden-Moist - On steep rocky slopes with moist conditions
Rock_Outcrop	Rock_Outcrop - Part of a rock formation that appears above the surface
Rookery	Rookery - The breeding ground for sea birds or seals
Rootwad	Rootwad - Root mass of a fallen tree
Sand	Sand - Smaller than a granule (<2mm), larger than a silt grain
Sand_Dune	Sand_Dune - Loose sand piled up by the wind
Seep	Seep - Small area where liquid percolates slowly to the top
Shrub	Shrub - Any type of shrub used as feature
Silt	Silt - Smaller than sand, larger than a clay particle (1/16 - 1/256 mm)
Snag	Snag - A standing dead tree or a stump
Soil	Soil - Unspecified soil type
Spring	Spring - A spring with unspecified temperature
Spring-Cold	Spring-Cold - A cold-water spring
Stem	Stem - The main branch of a live shrub or herbaceous plant
Stock tank/trough	Stock tank or Stock tank/trough
Stream	Stream - Unspecified stream type
Stream-Ephemeral	Stream-Ephemeral - Flows seasonally
Stream-Perennial	Stream-Perennial - Flows year-round
Stump	Stump - The remaining base after a tree has been felled

Code	Description
Swamp	Swamp - Land covered with water and thick vegetation
Talus	Talus - Pile of rock rubble below a cliff or chute
Trail	Trail - A trail created by animals
Tree	Tree - Any type of tree
Vernal_Pool	Vernal_Pool - An ephemeral water body with restricted drainage
Waterfall	Waterfall - A sudden, nearly vertical drop in a stream
Woody_Debris	Woody_Debris - Any dead wood in contact with the ground

A.15 dom_GB_Ftr_Use

GeoBOB Feature Use Code. A description of how the feature is being or could be used.

Code	Description
Basking/Loafing	Basking/Loafing - Lying in the sun for warmth
Breeding/Mating	Breeding/Mating - Breeding or mating activities other than courtship
Day Roost	Day Roost
Feeding	Feeding - Used for feeding
Hibernation	Hibernation - Used for hibernation
In	In - Species occurs in (or within) the feature
Macrohabitat	Macrohabitat - The large-scale habitat feature
Maternity	Maternity - Provides shelter for birthing/brooding
Near	Near - Species occurs near the feature
Nest_RTV	Nest for Red Tree Vole
Nesting	Nesting - Using or building a place to rear young
Night Roost	Night Roost
On	On - Species occurs on the feature
Other	Other - Other use (describe in Feature Notes)
Perch	Perch - A place for sitting or resting
Plucking Post	Plucking Post - Used during prey handling
Rearing	Rearing - Used for rearing young
Roost	Roost - A place for sleep
Seasonal	Seasonal - Used during a particular season
Shelter	Shelter - Used for cover
Substrate	Substrate - Surface on which an organism grows or is attached
Under	Under - Species occurs under the feature
Unknown	Unknown
W/F/T	Watering/Foraging/Traveling

A.16 dom_GB_Gender

GeoBOB Gender Code. Code to describe the gender of a species.

Code	Description
Female	Female - An individual that bears young

Code	Description
Hermaphrodite	Hermaphrodite - Having both male and female reproductive organs
Male	Male - An individual that does not bear young.
Unknown	Unknown - Gender was not determined/recorded

A.17 dom_GB_Humidity

GeoBOB Humidity range of values. This is a short integer type range domain with allowable values between 0 and 100.

A.18 dom_GB_Landform

GeoBOB Landform Code. Refers to the general geomorphic structure and shape of habitat.

Code	Description
ALFA	ALFA - Alluvial Fan
ALLU	ALLU - Alluvium
ALVA	ALVA - Alluvial Valley
BALA	RETIRED: Badlands
BALD	BALD - Bald
BASI	BASI - Basin
BAY	BAY - Bay
BENC	BENC - Bench
BLOW	BLOW - Blowout
BLUF	BLUF - Bluff
BOLS	BOLS - Bolson
BOTT	BOTT - Bottomland
BR	BR - Bar
BREA	BREA - Break
CANY	CANY - Canyon
CHAN	CHAN - Channel
CIRQ	CIRQ - Cirque
CLIF	CLIF - Cliff
COAS	COAS - Coast
COFA	COFA - Colluvial Fan
COLL	COLL - Colluvium
COPL	COPL - Coastal Plain
DELT	DELT - Delta
DEPR	DEPR - Depression
DEST	DEST - Depositional Stream Terrace
DIVI	DIVI - Divide
DRAI	DRAI - Drainage
DRAW	DRAW - Draw
DUFI	DUFI - Dune Field
FLAT	FLAT - Flat
FLOO	FLOO - Floor

Code	Description
FLPL	FLPL - Floodplain
FOOT	FOOT - Foothills
GAP	GAP - Gap
GLID	GLID - Glide
GLUP	GLUP - Glaciated Uplands
GORG	RETIRED: Gorge
HEAD	HEAD - Headwall
HIGH	HIGH - Highland
HILL	HILL - Hills
HISL	RETIRED: Hillslope
HUMM	HUMM - Hummock
INBA	INBA - Intermontane Basin
ISLA	ISLA - Island
KNOB/MOUD	KNOB/MOUD - Knob and/or Mound
KNOL	RETIRED: Knoll
LAKE	LAKE - Lake
LAPA	LAPA - Lava Plain
LAPL	LAPL - Lava Plateau
LEDG	LEDG - Ledge
LOWL	LOWL - Lowlands
MORA	MORA - Moraine
MOUN	MOUN - Mountain
MOVA	RETIRED: Mountain Valley
NOTC	NOTC - Notch
OTHER	OTHER - OTHER
PEAK	PEAK - Peak
PENI	PENI - Peninsula
PLAI	PLAI - Plains
PLAT	PLAT - Plateau
PLAYA	PLAYA - alkali flat or salt pan
POND	POND - pond (aquatic mollusks)
PONDO	Pond - other
POOL	POOL - Pool
POTH	POTH - Pothole
RANG	RANG - Range
RAVI	RAVI - Ravine
RIDG	RIDG - Ridge
RIFF	RIFF - Riffle
RIPA	RIPA - Riparian
RISE	RETIRED: Rise
RIVE	RIVE - River
RTVA	RTVA - Rift Valley
SADD	SADD - Saddle
SAND	SAND - Sandhills
SCAB	SCAB - Scabland

Code	Description
SCAR	RETIRED: Scarp
SCRE	SCRE - Scree
SEEP	SEEP - Seep
SLLO	RETIRED: Slope (Lower)
SLMI	RETIRED: Slope (Middle)
SLOU	SLOU - Slough
SLUN	RETIRED: Slope (Unspecified)
SLUP	RETIRED: Slope (Upper)
SPRING	SPRING - spring (aquatic mollusks)
SPUR	RETIRED: Spur
STREAM	STREAM - stream (aquatic mollusks)
STREAM	STREAM REACH - All or portion of a stream/reach
STTE	STTE - Stream Terrace (Undifferentiated)
SWAL	SWAL - Swale
TABL	RETIRED: Tableland
TALU	TALU - Talus
TIPL	TIPL - Till Plain
TREN	TREN - Trench
UPLA	RETIRED: Upland
VALL	VALL - Valleys
VNOT	RETIRED: V-Notch
WASH	WASH - Wash
WETL	WETL - Wetland

A.19 dom_GB_Light_Index

GeoBOB Light Index Code. Describes the amount of sun that hits a species Observation point.

Code	Description
Full Shade	Full Shade - Does not receive any direct sunlight
Full Sun	Full Sun - Receives direct sunlight
Part Shade	Part Shade - Receives filtered sunlight
Unknown	Unknown

A.20 dom_GB_Map_Accuracy

GeoBOB Map Accuracy Code. Describes the precision with which the recorded UTMs or lat/longs and the associated GIS digitized (electronic) point or polygon matches the actual ground site location.

Code	Description
GENERATED	GENERATED - Generated by GeoBOB application. No map accuracy
GPS1	GPS1 - GPS unit used; precision within 3 feet or less
GPS2	GPS2 - GPS unit used; precision within 30 feet or less
GPS3	GPS3 - GPS unit used; precision within 300 feet or less
MAN1	MAN1 - Mapped to within 150 feet of actual location

Code	Description
MAN2	MAN2 - Mapped to within 300 feet of actual location
MAN3	MAN3 - Mapped to within 1/8 mile of actual location
MAN4	MAN4 - Mapped to within 1/4 mile of actual location
MAN5	MAN5 - Mapped to within 1/2 mile of actual location
MAN6	MAN6 - Precision of mapped location cannot be determined
TR10	TR10 - Legal description to the 1/64 section (within 10 acres)
TR160	TR160 - Legal description to the 1/4 section (within 160 acres)
TR320	TR320 - Legal description to the 1/2 section (within 320 acres)
TR40	TR40 - Legal description to the 1/16 section (within 40 acres)
TR640	TR640 - Legal description to the section (within 640 acres)
VAGUE	VAGUE - Observation documented in vague descriptions

A.21 dom_GB_Migration_Src

GeoBOB Migration Source Code. The source of the data if it was migrated into the dataset.

Code	Description
BATGrid	BATGrid - Bat Grid Database
BLM	BLM - Bureau of Land Management
BLMOR010_Local	BLMOR010_Local - Lakeview District Local Dataset
BLMOR020_Local	BLMOR020_Local - Burns District Local Dataset
BLMOR030_Local	BLMOR030_Local - Vale District Local Dataset
BLMOR050_Local	BLMOR050_Local - Prineville District Local Dataset
BLMOR080_Local	BLMOR080_Local - Salem District Local Dataset
BLMOR090_Local	BLMOR090_Local - Eugene District Local Dataset
BLMOR100_Local	BLMOR100_Local - Roseburg District Local Dataset
BLMOR110_Local	BLMOR110_Local - Medford District Local Dataset
BLMOR120_Local	BLMOR120_Local - Coos Bay District Local Dataset
BLMOR130_Local	BLMOR130_Local - Spokane District Local Dataset
CNDDB	CNDDB - CA Natural Diversity Database - CNHP
CNHP	CNHP - California Natural Heritage Program
EDT	EDT - Electronic Data Transfer
GSCHMIDT	GSCHMIDT - Greg Schmitt amphibian records
Herbarium	Herbarium - Herbarium specimen
IsaacsBE	IsaacsBE - Bald Eagle Database
IsaacsPF	IsaacsPF - Peregrine Falcon Database
JointFireSci	JointFireSci - BLM/FS Joint Fire Sciences Study
KSDB	KSDB - Known Sites Database
LGEISER	LGEISER - Linda Geiser lichen records
Museum	Museum - Museum specimen
ONHP	ONHP - Oregon Natural Heritage Program
PCGPIPE	PCGPIPE - Pacific Connector Gas Pipeline
PygmyRabbit	PygmyRabbit - Pygmy Rabbit Database
RNAUMAN	RNAUMAN - Rich Nauman amphibian records
RTV	RTV - 2012_RTV_migration

Code	Description
Strat Surveys	Strat Surveys - Strategic Surveys Program
USFS	USFS - U.S. Forest Service
USFWS_GE	USFWS_GE- USFWS Golden Eagle Data 2011 - 2014
Unknown	Unknown - Unknown source
WADFW	WADFW - Washington Department of Fish & Wildlife
WADNR	WADNR - Washington Department of Natural Resources

A.22 dom_GB_Obs_Type

GeoBOB Observation Type Code. The type of detection by which species presence was determined.

Code	Description
Aural	Aural - The animal was only heard
Burrow	Burrow - Burrow
Camera Set	Camera Set - Detected by remotely triggered photo
Capture	Capture - Detected by physical capture
Excrement	Excrement - Only excrement was observed
Feather	Feather - A feather was found
Found Dead	Found Dead - The animal detected was found dead
Hair Sample	Hair Sample - A portion of hair found
Kill Site	Kill Site - An area where evidence of a kill was observed
Nest (Invert)	Nest (Invert) - Species-specific nest with evidence of recent use
Other	Other - The observation type is not listed
Radio Telemetry	Radio Telemetry - Determined by a signal from a transmitter
Shell	Shell - Only a shell was observed
Sign	Sign - Sign
Track	Track - Only tracks were observed
Ultrasonic	Audio (Ultrasonic) Recording
Unknown	Unknown - Unknown observation type
Visual	Visual - The animal or plant was seen
Visual and Aural	Visual and Aural - The animal was detected by seeing it and hearing it
Voucher Specimen	Voucher Specimen - A specimen was collected for further analysis

A.23 dom_GB_Percent

GeoBOB percent range of values. This is a short integer type range domain with allowable values between -1 and 100.

A.24 dom_GB_Presence

GeoBOB Presence Code. The type of detection by which species presence was determined.

Code	Description
N	N - Species was absent
V	V - Pending Expert Verification

Code	Description
X	X - Presence/Absence is not applicable
Y	Y - Species was present

A.25 dom_GB_Protocol_Name

GeoBOB Protocol Name Code. The name of the protocol used to complete a survey.

Code	Description
2009 USGS CSF	2009 USGS Columbia Spotted Frog Site Assessment Survey Protocol
Kit Fox 2012-2014	2012-2014 Reconnaissance Survey for Kit Foxes in Southeastern Oregon
Amphibians S&M, Version 3.0, 10/99.	Amphibians S&M, Version 3.0, 10/99.
Amphibians. Heyer et al 1994. Meas. & Mon. Biol. Div.: Stnd. Meth.	Amphibians. Heyer et al. 1994. Meas. & Mon. Biol. Div.: Stnd. Meth.
Aquatic Amphibian Survey Protocol, Fellers & Freel, 1995	Aquatic Amphibian Survey Protocol, Fellers & Freel, 1995
Aquatic Mollusk S&M, 2003. Strayer and Smith. Am. Fish. Soc. Mon.	Aquatic Mollusk S&M, 2003. Strayer and Smith. Am. Fish. Soc. Mon.
Aquatic Mollusk S&M, Version 2.0, 10/29/97	Aquatic Mollusk S&M, Version 2.0, 10/29/97
Black-backed Woodpecker Acoustic Nest Search. Halstead, K.E. and J.L. Stephens. 2015.	Black-backed Woodpecker Acoustic Nest Search. 2015.
Bryophytes S&M, Version 2.0, 12/03/99	Bryophytes S&M, Version 2.0, 12/03/99
Bury, RB and R Sisk, 1997	Bury, RB and R Sisk, 1997
CVS Grid Survey, S&M Bryophytes, Lichens, Vascular Plants 5/30/2001	CVS Grid Survey Protocol for S&M Bryophytes, Lichens, Vasc. Plants rev.5/30/2001
CVS Grid Survey, S&M Fungi v. 1.5, am. 5/25/2001	CVS Grid Survey Protocol for S&M Fungal species, v. 1.5, am. 5/25/2001
CVS Grid Survey Protocol for S&M Red Tree Vole, Version 1.2, 2/2002	CVS Grid Survey Protocol for S&M Red Tree Vole, Version 1.2, 2/2002
CVS Grid Survey, S&M Mollusks v. 2.1, rev. 3/1/2001	CVS Grid Survey Protocol for Survey and Manage Mollusks, v. 2.1, rev. 3/1/2001
Call-and-Response Survey, Takats et al 2001. (owl)	Call-and-Response Survey, Takats et al 2001.
Call-and-Response, Fuller & Mosher 1981. (goshawk)	Call-and-Response, Fuller & Mosher 1981. (goshawk)
CSF, 2001 Monitoring Report	Columbia Spotted Frog, 2001 Monitoring Report
Forest Health Monitoring Protocol	Forest Health - McCune et.al - Repeatability of community data
Fungi S&M Cat. B Equiv.	Fungi Category B Survey and Manage Equivalent Effort, Version 1.0, Feb. 2012
Fungi S&M, Version 2.0, 5/13/98	Fungi S&M, Version 2.0, 5/13/98
Great Gray Owl S&M, April, 1995	Great Gray Owl S&M, April, 1995
Great Gray Owl S&M, April, 1995; adjusted 1997	Great Gray Owl S&M, April, 1995; adjusted 1997
Great Gray Owl S&M, Version 3.0, 1/12/2004	Great Gray Owl S&M, Version 3.0, 1/12/2004
Great Gray Owl S&M, Version 4.0, 10/2016	Great Gray Owl S&M, Version 4.0, 10/2016
Golden Eagle 2010	Interim Golden Eagle Inventory and Monitoring Protocols. Pagel et.al. 2010
Johnson's hairstreak butterfly survey protocol	Johnson's Hairstreak Butterfly (Callophrys johnsoni) Survey Protocol for WA & OR
Lichens S&M,Version 2.1, 9/22/03	Lichens S&M,Version 2.1, 9/22/03
Mardon Skipper 1.0 draft, 2006	Mardon Skipper 1.0 draft, May 5, 2006. Seitz et al. FS R6 & BLM
National Lynx Survey	National Lynx Survey
None	None - No protocol used

Code	Description
Ormsbee, Pat. Bat Grid Draft Protocol	Ormsbee, Pat. Bat Grid Draft Protocol 6/27/07.
Other	Other - Protocol not in list provided
Ground Squirrel Surveys, WDFW, 2003	Protocol for Washington Ground Squirrel Surveys, WDFW, 2003
Rangewide Monitoring Protocol (Hatfield et al. 2013a)	Rangewide Monitoring Protocol (Hatfield et al. 2013a)
Red Tree Vole S&M, Version 2.0, 2/2000	Red Tree Vole S&M, Version 2.0, 2/2000
Red Tree Vole S&M, Version 2.1, 10/2002	Red Tree Vole S&M, Version 2.1, 10/2002
Red Tree Vole S&M, Version 2.2, 5/2003	Red Tree Vole S&M, Version 2.2, 5/2003
RTV 2012	Red Tree Vole Survey Protocol Version 3.0, 11/2012
Rombough 2005. Modified for YLF from Fellers and Freel, 1995.	Rombough 2005. Modified for YLF from Fellers and Freel, 1995.
Salamander S&M (Siskiyou Mt), Version 3.0, 10/18/99	Siskiyou Mt Salamander S&M, Version 3.0, 10/18/99
Siuslaw hairy-necked tiger beetle	Siuslaw hairy-necked tiger beetle
Sporocarp Survey Protocol for Macrofungi	Sporocarp Survey Protocol for Macrofungi: Version 1.0. December 2008
Surveying for Pygmy Rabbits, unpub. Ulmschneider et al, 2004	Surveying for Pygmy Rabbits, unpub. Ulmschneider et al, 2004 draft.
Terrestrial Mollusk S&M, Version 2.0, 10/29/97	Terrestrial Mollusk S&M, Version 2.0, 10/29/97
Terrestrial Mollusk S&M, Version 3.0, 02/21/2003	Terrestrial Mollusk S&M, Version 3.0, 02/21/2003
Vascular Plants S&M, Version 2.0, 12/1998	Vascular Plants S&M, Version 2.0, 12/1998
WDFW Grouse Survey Protocol, 2004	WDFW Grouse Survey Protocol, 2004
Western Pond Turtle Survey & Monitoring	Western pond turtle survey and monitoring plan (Working Draft). USFS.
Zielinski and Kucera, USDA General Technical Report 157, 1995	Zielinski and Kucera, USDA General Technical Report 157, 1995

A.26 dom_GB_Reliability

GeoBOB Reliability Code. A ranking of how reliable the Observation record is, based on the expertise of the identifier and/or verifier.

Code	Description
Excellent	Excellent - High confidence that the identification is correct
Fair	Fair - Some uncertainty that the identification is correct
Good	Good - Likely that the identification is correct
Poor	Poor - Unlikely that the identification is correct
Unknown	Unknown - Reliability unknown or not recorded

A.27 dom_GB_Repository

GeoBOB Repository Code. The code and name of the repository that stores a species collection.

Code	Description
AMNH	AMNH - American Museum of Natural History, New York, NY
ANSP	ANSP - Academy of Natural Sciences, Philadelphia, PA
ASU	ASU - Arizona State Univ. Department of Zoology, Tempe, NC
AW	AW - Andy Warren Personal Collection
BLMCA017	BLMCA017 - Bishop Field Office
BLMCA330	BLMCA330 - Arcata Field Office
BLMOR900	BLMOR900 - BLM - Oregon State Office

Code	Description
BLMORB00	BLMORB00 - Burns District
BLMORC00	BLMORC00 - Coos Bay District
BLMORC04	BLMORC04 - Myrtlewood Resource Area
BLMORL00	BLMORL00 - Lakeview District
BLMORL04	BLMORL04 - Klamath Falls Resource Area
BLMORL05	BLMORL05 - Lakeview Resource Area
BLMORM00	BLMORM00 - Medford District
BLMORM05	BLMORM05 - Butte Falls Resource Area
BLMORM06	BLMORM06 - Ashland Resource Area
BLMORM07	BLMORM07 - Grants Pass Resource Area
BLMORN00	BLMORN00 - Northwest Oregon District
BLMORN02	BLMORN02 - Marys Peak Field Office
BLMORN03	BLMORN03 - Siuslaw Field Office
BLMORN04	BLMORN04 - Tillamook Field Office
BLMORN05	BLMORN05 - Upper Willamette FO
BLMORP00	BLMORP00 - Prineville District
BLMORR00	BLMORR00 - Roseburg District
BLMORR04	BLMORR04 - Swiftwater Resource Area
BLMORR05	BLMORR05 - South River Resource Area
BLMORV00	BLMORV00 - Vale District
BLMORV05	BLMORV05 - Baker Resource Area
BLMORW02	BLMORW02 - Wenatchee Resource Area
BLMORW03	BLMORW03 - Border Resource Area
CAS	CAS - California Academy of Sciences, San Francisco, CA
CIC	CIC - College of Idaho, Caldwell - (now called Albertson College of Idaho)
CM	CM - Carnegie Museum of Natural History, Pittsburg, PA
DUKE	DUKE - Duke Univ., Durham, NC
EOU	EOU - Eastern Oregon University
FMNH	FMNH - Field Museum of Natural Hist., Chicago, IL
FOCL	FOCL - Fort Clatsop National Memorial
FOVA	FOVA - Fort Vancouver National Historic Site
HSC	HSC - Herbarium, Biol. Sciences Dept., Humboldt State Univ., Arcat
INHS	INHS - Illinois Natural History Survey - Champaign, IL
LAM	LAM - Los Angeles Museum Herbarium Botany Section,Nat.Hist.Museum
LSUMZ	LSUMZ - Louisiana State Univ. Museum of Nat. Sci, Baton Rouge, LA
MICH	MICH - Herbarium, Univ. of Michigan, Ann Arbor, MI
NY	NY - Herbarium, New York Botanical Garden
ODFW	ODFW - OSIS, Oregon Dept. of Fish and Wildlife, Corvallis, OR
OLYM	OLYM - Olympic National Park, Port Angeles, WA
ONHP	ONHP - Oregon Natural Heritage Program, Portland, OR
OS	OS - Oregon State Univ. Dept. of Fish and Wildlife, Corvallis, OR
OSAC (JH)	OSAC (JH) - John Hinchliff Personal Collection
OSAC (KS)	OSAC (KS) - Ken Smith Personal Collection
OSAC	OSAC - Oregon State Arthropod Collection, OSU, Corvallis, OR
OSC	OSC - Herbarium, Botany and Plant Pathology Dept., OSU, Corvallis, OR

Code	Description
OSUM	OSUM - Oregon State University Mammal Collections
PNW	PNW - Pacific Northwest Forest & Range Experiment Station, Corvall
PSM	PSM - Univ. of Puget Sound Slater Museum, Tacoma, WA
PSUM	PSUM - Portland State University Museum of Vertebrate Biology
P_APPLEGAR	P_APPLEGAR - John Applegarth, Eugene, OR
P_BRZOSKA	P_BRZOSKA - David Brzoska, U of K NHM, Lawrence, KS
P_BURKE	P_BURKE - Thomas Burke, Olympia, WA
P_DEIXIS	P_DEIXIS - DEIXIS Consultants Private Collection, Seattle, WA
P_DERR	P_DERR - Chiska Derr's Private Herbarium, Amboy, WA
P_HARPEL	P_HARPEL - Judy Harpel, Brush Prairie, WA
P_JOHNSON	P_JOHNSON - Walter Johnsons private collection. Minneapolis, Minnesota.
P_MCCORKLE	P_MCCORKLE - Personal collection Dr. David V. McCorkle
P_MCCUNE	P_MCCUNE - Bruce McCune's Private Herbarium, Oregon State Univ., Corval
P_MCHENRY	P_MCHENRY - G.Y. McHenry private collection
P_NORVELL	P_NORVELL - Lorelei Norvell, Private Herbarium, Portland, OR
P_OTHER	P_OTHER - Insufficient detail on owner & location of private collection given
P_PAULSON	P_PAULSON - Dennis Paulsons private collection. Seattle, WA 98115
P_ROSENTRE	P_ROSENTRE - Roger Rosentreter, Boise, ID
P_ROTH	P_ROTH - Barry Roth's Private Collection, San Francisco, CA
P_WAGNER	P_WAGNER - David Wagner, Eugene, OR
P_WARREN	P_WARREN - Personal collection Dr. Andrew D. Warren - Gainesville FL
RC	RC - Rehabilitation Center (San Francisco)
CFSL Mollusk	RETIRED CFSL Mollusk Taxa Ex - Corv. FSL S & M Prog Mlsk Txa Expert Vch C
FS0603	RETIRED FS0603 - Gifford Pinchot National Forest
FS0606	RETIRED FS0606 - Mt. Hood National Forest
FS061103	RETIRED FS061103 - Gold Beach Ranger District
FS0612	RETIRED FS0612 - Siuslaw National Forest
FS0615	RETIRED FS0615 - Umpqua National Forest
FS061506	RETIRED FS061506 - North Umpqua Ranger District
FS0618	RETIRED FS0618 - Willamette National Forest
RMRS	RMRS - USFS Rocky Mountain Research Station, Missoula, MT.
RW	RW - Robert Wisseman Personal Collection
SBMNH	SBMNH - Santa Barbara Museum of Natural Hist., Santa Barbara, CA
SFSU	SFSU - Harry D.Thiers Herbarium, Biology Dept., San Francisco State
SOC	SOC - Herbarium, Southern Oregon State College, Ashland, Oregon
SOU	SOU - Southern OR University
UBC	UBC - Herbarium, Botany Dept, Univ. of British Columbia, Vancouver
UC	UC - Univ. Herbarium, Univ. of Calif., Berkeley, CA
UCM	UCM - Univ. of Colorado Museum, Boulder, CO
UHF	UHF - University of Helsinki, Finland
UMM	UMM - Univ. of Montana Division of Biological Sciences, Missoula,
UMMZ	UMMZ - Univ. of Michigan Museum of Zoology, Ann Arbor, MI
UNK	UNK - Unknown repository
UO_NORWAY	UO_NORWAY - University of Oslo, Norway
USNM	USNM - National Museum of Natural Hist., Smithsonian Inst., Wash.,

Code	Description
USU_LB	USU_LB - Utah State University, Logan Bee Lab
UW	UW - Univ. of Washington Burke Museum, Seattle, WA
WHIS	WHIS - Whiskeytown National Park
WS	WS - Herbarium, Washington State Univ., Pullman, WA
WSP	WSP - Washington State Univ., Pullman, WA
WTU	WTU - Herbarium, Botany Dept., Univ. of Washington, Seattle, WA
WWB	WWB - Western Washington Univ. Herbarium, Bellingham, WA
XER	XER - The Xerces Society

A.28 dom_GB_Repro_Status

GeoBOB Reproductive Status Code. The reproductive status of the species.

Code	Description
Lactating	Lactating
Non-Repro	Non-Repro - No evidence of reproduction
Not Applicable	Not Applicable -Was observed outside the reproductive season
Null Parous	Null Parous
Parous	Parous
Post-lactating	Post-lactating
Pregnant	Pregnant
Repro	Repro - Evidence of reproduction
Testes/epididymides	Testes/epididymides enlarged & visible
Unknown	Unknown - Reproductive status unknown

A.29 dom_GB_Site_Status

GeoBOB Site Status Code. A description of the occupancy of the Site during the most recent visit.

Code	Description
Extirpated	Extirpated - Species no longer present locally and habitat removed
Introduced	Introduced - Flora Site created by planting species at site.
Occupied	Occupied - Location occupied by species
Undetected	Undetected - Not observed but not ruled out
Unknown	Unknown - Not known if species is present locally
Unoccupied	Unoccupied - Location not occupied by species

A.30 dom_GB_Slope

GeoBOB slope range of values. This is a short integer type range domain with allowable values between -1 and 200.

A.31 dom_GB_Soil_Moisture

GeoBOB Soil Moisture Code. A description of the amount of moisture in the soil.

Code	Description
Dry	Dry - No moisture present
Inundated/Flooded	Inundated/Flooded - Covered with water
Moist	Moist - Slightly wet
Wet	Wet - Saturated

A.32 dom_GB_Soil_Texture

GeoBOB Soil Texture Code. Describes the soil texture (composition).

Code	Description
Clay	Clay
Clay_Loam	Clay_Loam
Loam	Loam
Other	Other (specify)
Sand	Sand
Sandy_Loam	Sandy_Loam
Silt	Silt
Silt_Loam	Silt_Loam

A.33 dom_GB_Species_List

GeoBOB Species List Code. The published list of species that was used for the survey.

Code	Description
ISSSSP2019	ISSSSP2019 - BLM OR/WA State Director's Special Status Species List March 2019
ISSSSP2015	ISSSSP2015 - BLM OR/WA State Director's Special Status Species List July 2015
ISSSSP2011	ISSSSP2011 - BLM OR/WA State Director's Special Status Species List Dec 2011
ISSSSP2008	ISSSSP2008 - BLM OR/WA State Director's Special Status Species List Feb 2008
SM2003	SM2003 - Survey and Manage Species List (December 2003)
SM2001	SM2001 - Survey and Manage Species List (2001)

A.34 dom_GB_Srv_Method

GeoBOB Survey Method Code. The method used to complete the survey.

Code	Description
Acoustic, Man. Rov.	Acoustic, Manual Roving Survey - Non-stationary Acoustic Surveys done manually
Acoustic, Rem. Stn.	Acoustic, Remote Station - A station established to sample bat frequencies.
Aerial Survey	Aerial Survey - Survey done from a plane or helicopter
Area Constrained	Area Constrained - Any survey where the search area is limited
Bait Station	Bait Station - Specific location where bait is left to attract an animal

Code	Description
Belt Transect	Belt Transect - A transect with designated width & length
Breeding Bird Survey	Breeding Bird Survey -
Call Stations	Call Stations - Animal was called from one or many locations
Camera	Camera - A camera or video recorder was set to be triggered
Camera/ Hair Trap	Camera/ Hair Trap - method used to collect hair and take a photo of animal
Casual Observation	Casual Observation - No formal survey or method used
Ccall_Wlk_Thrgh	Ccall_Wlk_Thrgh - Continuous Calling Walk Through
Cluster Buster	Cluster Buster
Complete	Complete - A visual exam of 100 percent of the area.
Cursory	Cursory - A quick walk-through of a survey area
Fixed Stations	Fixed Stations - The same stations are used repeatedly
Group Belt Transect	Group Belt Transect - Clusters of belt transects
Hair Trap	Hair Trap - Method used to collect hair from a designated spot
Hand Net	Hand Net -
Harp Trap	Harp Trap -
ITE_RTV	ITE_RTV - Individual Tree Exam - Red Tree Vole. Survey of all potential nest trees in proj. area.
Incidental	Incidental - Observation made while surveying for another species
Individual Tree Exam	Individual Tree Exam - Search of individual trees
Intuitive Controlled	Intuitive Controlled - Intensive searches of suitable habitats within survey areas
Key Feature Sample	Key Feature Sample - Time constrained in area with many key features
Line Transect	Line Transect - A transect with no width
Lynx Analysis Unit	Lynx Analysis Unit (LAU)
MLT_RTV	MLT_RTV - Modified Line Transect - Red Tree Vole
Mist Net	Mist Net - A fine net generally used to catch bats
Mod_Line_Trans	Mod_Line_Trans - Modified Line Transect
Other	Other - The survey type does not appear in the list of values
Pitfall Trap	Pitfall Trap - A pit in the ground is used to trap an animal
Point Counts	Point Counts - surveys using predetermined discrete point locations
Quadrat	Quadrat - Areas of specified standard size are sampled
General Survey	RETIRED: General Survey
Monitoring	RETIRED: Monitoring
Project Clearance	RETIRED: Project Clearance
Research Site	RETIRED: Research Site
SM_Component_2	RETIRED: SM_Component_2
SSS Survey	RETIRED: SSS Survey
Weed Survey	RETIRED: Weed Survey
Random Sample Surv	Random Sample Survey -
Road Survey	Road Survey - Survey conducted from a road.
SLT_RTV	SLT_RTV - Stands With Large Trees - Red Tree Vole. Used alone or w/MLT where view restricted.
Scat Dog	Scat Dog - A Survey using dogs to detect wildlife feces
Telemetry	Telemetry - Radio telemetry locations are used to identify an individual
Time Constrained	Time Constrained - Any survey with a minimum search time
Unspecified	Unspecified - Survey method was not recorded

Code	Description
Variable Plot	Variable Plot - Plots of various sizes are used

A.35 dom_GB_Srv_Type

GeoBOB Survey Type Code. The reason for doing a survey.

Code	Description
Follow-up	Follow-up - A visit done to confirm a species report
Incidental	Incidental - Observation made while surveying for another species
Inventory	Inventory - List of species recorded in a survey
Monitoring	Monitoring - Planned & repeated visits to existing observations/sites
Project Clearance	Project Clearance - Surveys done prior to project implementation
Purposive	Purposive - Surveys done in areas where the species is expected to occur
Other Strategic Surv	RETIRED - -Other Strategic Surv
GOBIG	RETIRED - GOBIG
Pre-Disturbance	RETIRED - Pre-Disturbance - Pre-Disturbance
Species-Specific	RETIRED - Species-Specific
Other Non_Strat Surv	RETIRED: Other non-strategic surveys
CVS/FIA Strat Surv	RETIRED: Strategic survey on a CVS plot.
Known Site Strat Sur	RETIRED: Strategic survey on a known site.
Research	Research - Done for research purposes only
Unspecified	Unspecified - Survey type not recorded

A.36 dom_GB_Stand_Structure

GeoBOB Stand Structure Code. Describes the canopy layers at the point or area.

Code	Description
Even/Live Resid	Even/Live Resid - Even-aged stand with live residual trees
Multiple	Multiple - Multiple canopy layers
Even/Legacy	RETIRED:Even-aged stand with legacy structures
Single	Single - Single canopy layer
Two	Two - Two canopy layers
Unspecified	Unspecified - Unspecified

A.37 dom_GB_Sub_Admin_Unit_Code

GeoBOB Sub Admin Unit Code. The sub-administration codes. For BLM units, this is the Field Office or Resource Area.

Code	Description
ORB05	ORB05 - BURNS THREE RIVERS FIELD OFFICE

Code	Description
ORB06	ORB06 - BURNS ANDREWS/STEENS FIELD OFFICE
ORC03	ORC03 - COOS BAY UMPQUA FIELD OFFICE
ORC04	ORC04 - COOS BAY MYRTLEWOOD FIELD OFFICE
ORL04	ORL04 - LAKEVIEW KLAMATH FALLS FIELD OFFICE
ORL05	ORL05 - LAKEVIEW DISTRICT LAKEVIEW FIELD OFFI
ORM05	ORM05 - MEDFORD BUTTE FALLS FIELD OFFICE
ORM06	ORM06 - MEDFORD ASHLAND FIELD OFFICE
ORM07	ORM07 - MEDFORD GRANTS PASS FIELD OFFICE
ORM08	ORM08 - MEDFORD GLENDALE FIELD OFFICE
ORN01	ORN01 - NW OR Cascades FO
ORN02	ORN02 - NW OR Marys Peak FO
ORN03	ORN03 - NW OR Siuslaw FO
ORN04	ORN04 - NW OR Tillamook FO
ORN05	ORN05 - NW OR Uppr Willam FO
ORP04	ORP04 - PRINEVILLE CENTRAL OREGON FIELD OFFIC
ORP06	ORP06 - PRINEVILLE DESCHUTES FIELD OFFICE
ORR04	ORR04 - ROSEBURG DISTRICT SWIFTWATER FO
ORR05	ORR05 - ROSEBURG DISTRICT SOUTH RIVER FO
ORV04	ORV04 - VALE MALHEUR FIELD OFFICE
ORV05	ORV05 - VALE BAKER FIELD OFFICE
ORV06	ORV06 - VALE JORDAN FIELD OFFICE
ORW02	ORW02 - SPOKANE WENATCHEE FIELD OFFICE
ORW03	ORW03 - SPOKANE BORDER FIELD OFFICE
Unspecified	Unspecified - Unspecified Sub-Administrative Unit

A.38 dom_GB_Substrate

GeoBOB Substrate Code. The substance that typifies the species habitat. In the case of habitat -frequently rock type.

Code	Description
Ash_Soil	Ash_Soil - Soil derived from a rhyolitic event.
Bank	Bank - Ground bordering a stream, lake, road, etc.
Bark	Bark - Attached, loose, or detached
Bog	Bog - Water-logged area with low-nutrient, acidic soil
Boulder	Boulder - Rock fragments larger than a cobble
Branch	Branch - Woody limb of a living tree or shrub
Cliff	Cliff - Steep or overhanging rock face
Cobble	Cobble - Particles larger than a pebble, smaller than a boulder
Ditch	Ditch - A long narrow excavation in the earth
Duff	Duff - Organic top layer of forested soils
Dung/Scat	Dung/Scat - Animal excrement
Fen	Fen - A nutrient-rich wetland that is less acidic than a bog
Fungi	Fungi - Any type of fungus used as substrate
Gravel	Gravel - Rock particles between 2 and 75 mm in diam

Code	Description
Human_Structure	Human_Structure - A structure made by humans (specify)
Lake	Lake - A large inland body of standing water
Ledge	Ledge - Narrow shelf on a rock wall or cliff face
Lithosol	Lithosol - A shallow soil comprised mostly of bedrock
Litter	Litter - Vegetative debris (specify) covering the majority of the soil surface
Log	Log - The large trunk of a fallen tree
Macrophyte	Macrophyte - Large aquatic plant
Meadow	Meadow - Meadow where moisture level is unknown
Meadow_Dry	Meadow_Dry - Meadow with no wetland features
Meadow_Moist	Meadow_Moist - Meadow with only seasonally saturated soil
Meadow_Wet	Meadow_Wet - Meadow with year-round saturated soil
Moss	Moss - Any type of moss used as substrate
Mud	Mud - Mixture of water and silt- or clay-sized earth material
Nest	Nest - Natural nest built by wildlife
Other	Other - Other substrate not included in this list of values.
Pebble	Pebble - Particles larger than a granule, smaller than a cobble
Pond	Pond - Body of standing water smaller than a lake
Quarry	Quarry - An area used for rock or gravel extraction
Road	Road - Improved or maintained roads
Roadside	Roadside - The disturbed area adjacent to a road surface
Rock_Basalt	Rock_Basalt
Rock_Conglomerate	Rock_Conglomerate
Rock_Granite	Rock_Granite
Rock_Igneous	Rock_Igneous
Rock_Limestone	Rock_Limestone
Rock_Metamorphic	Rock_Metamorphic
Rock_Outcrop	Rock_Outcrop - Part of a rock formation that appears above the surface
Rock_Sandstone	Rock_Sandstone
Rock_Sedimentary	Rock_Sedimentary
Rock_Shale	Rock_Shale
Rock_Ultramafic	Rock_Ultramafic
Rock_Unspecified	Rock_Unspecified
Rock_Volcanic	Rock_Volcanic
Rootwad	Rootwad - Root mass of a fallen tree
Sand	Sand - 0.05 - 2 mm rock particles
Sand_Beach	Sand_Beach - Sand on the shore of a body of water
Sand_Dune	Sand_Dune - Loose sand piled up by the wind
See_Notes_Field	See_Notes_Field - More than one substrate type or detailed explanation necessary
Shrub	Shrub - Typically a many-stemmed woody perennial < 8ft tall
Silt	Silt - Smaller than sand, larger than a clay particle (0.002 - 0.05 mm)

Code	Description
Snag	Snag - A standing dead tree or a stump
Soil_Serpentine	Soil_Serpentine
Soil_Unspecified	Soil_Unspecified - Unspecified soil type
Stem	Stem - The main branch of a live shrub or herbaceous plant
Stump	Stump - The remaining base after a tree has been felled
Talus	Talus - Pile of rock rubble below a cliff or chute
Tree	Tree - Any type of tree
Tree Trunk	Tree Trunk
Twig	Twig
Unspecified	Unspecified - No data given about substrate
Water	Water - Any place where the water is above the ground (specify)
Woody_Debris	Woody_Debris - Any dead wood in contact with the ground

A.39 dom_GB_Temperature

GeoBOB Temperature range of values. This is a short integer type range domain with allowable values between -1 and 110.

A.40 dom_GB_Threat_Type

GeoBOB Threat Type Code. Codes for factors that may have adverse effects on the persistence of the species at a given location.

Code	Description
Abiotic	Abiotic (specify)
Collecting	Collecting
Competition	Competition (specify)
Development	Development
Erosion	Erosion (specify)
Fire_Direct	Fire_Direct
Fire_Exclusion	Fire_Exclusion
Fire_Other	Fire_Other (specify)
Fire_Suppression	Fire_Suppression (specify)
Grazing_Direct	Grazing_Direct
Grazing_Indirect	Grazing_Indirect
Herbivory	Herbivory (specify)
Human_Activity	Human_Activity (specify)
Hydrological_Change	Hydrological_Change (specify)
Insects	Insects (specify)
Invasive/Exotic_Species	Invasive/Exotic_Species (specify)
Mining	Mining (specify)
Mitigation	Mitigation
Not_Protected	Not_Protected

Code	Description
Off_Road_Vehicles	Off_Road_Vehicles
Pathogen/Disease	Pathogen/Disease (specify)
Pipelines	Pipelines
Pollution	Pollution (specify)
Other	RETIRED: Other
Road/Trail	RETIRED: Road/Trail
Trampling	RETIRED: Trampling
Recreation	Recreation
Riparian_Disturbance	Riparian_Disturbance
Road_Construction	Road_Construction
Road_Maintenance	Road_Maintenance
Road_Other	Road_Other (specify)
Succession	Succession
Timber	Timber (specify)
Treatment_Mechanical	Treatment_Mechanical (specify)
Treatment_Other	Treatment_Other (specify)
Treatment_Spray	Treatment_Spray (specify)
Unknown	Unknown
Wild Horses	Wild Horses
Wildlife	Wildlife (specify)

A.41 dom_GB_Wind_Speed

GeoBOB Wind Speed Code. Estimated wind speed range in miles per hour.

Code	Description
Calm	Calm - 0-5 miles per hour
Gusty	Gusty - Sudden bursts of wind
Light	Light - 6-10 miles per hour
Moderate	Moderate - 11-15 miles per hour
Windy	Windy - 15+ miles per hour

A.42 dom_GB_YesNo

GeoBOB Yes No Code. Generic values for fields that require a positive or negative response.

Code	Description
N	N – No
Y	Y – Yes

A.43 dom_GB_YesNoUnknown

GeoBOB Yes No Unknown Code. Generic values for fields that require a positive, negative, or unknown

response.

Code	Description
N	N - No
Y	Y - Yes
U	U - Unknown