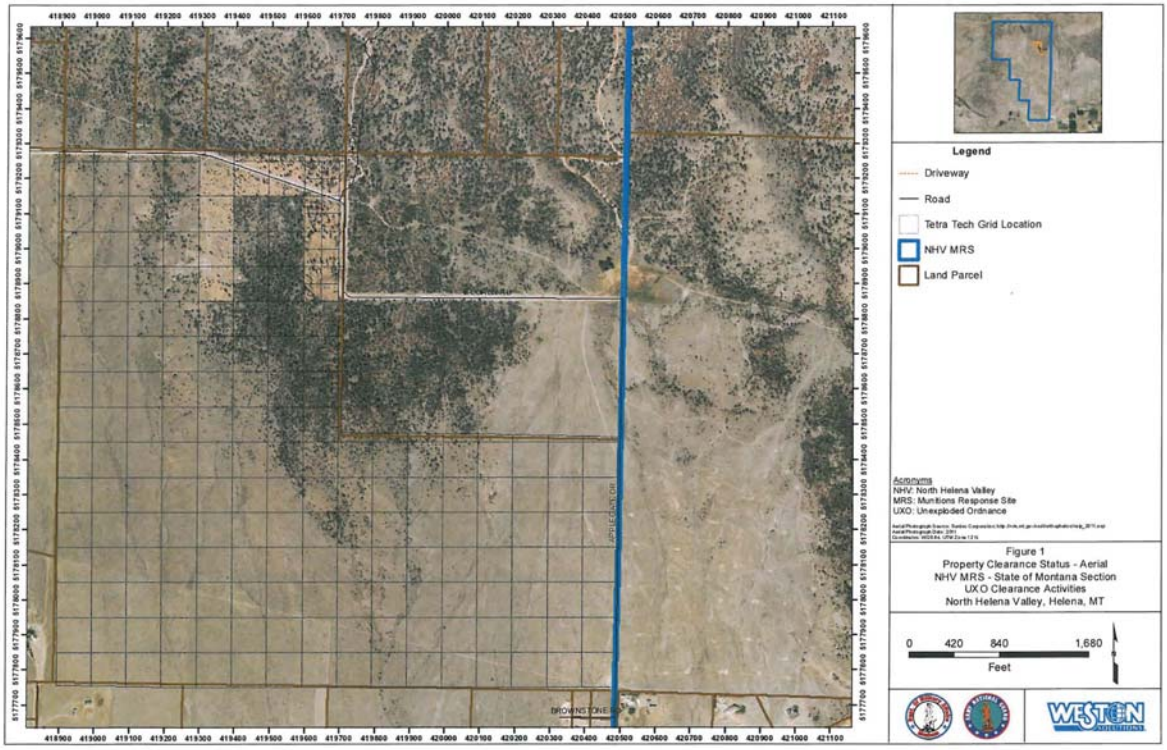


Figure 1
Property Clearance Status - Aerial
NHV MRS - State of Montana Section
UXO Clearance Activities
North Helena Valley, Helena, MT

CATEGORICAL EXCLUSION DOCUMENTATION FOR DNRC FOREST MANAGEMENT ACTIVITY

Project Name: Applegate Unexploded Ordinance Clearing
Proposed Implementation Date: Fall 2014/Winter 2015
Proponent: MTANRG and DNRC, Helena Unit
Type and Purpose of Action:
Location: Section 17, T10N, R1W County: Lewis & Clark County

Category (refer to ARM 36.11.447 for additional detail):

_____1) Temporary Uses of Land with Negligible Effects
_____2) Plans and Policies
_____3) Leases and Licenses
_____4) Acquisition of Land or Interest in Land
_____5) Road Maintenance and Repair
_____6) Bridges and Culverts
_____7) Crossing Class 3 Streams
_____8) Temporary Road Use Permits
_____9) Road Closure
_____10) Material Stockpiles
_____11) Backfilling
_____12) Gathering Forest Products for Personal Use
_____13) Regeneration
_____14) Nursery Operations
_____15) Water Wells
_____16) Herbicides and Pesticides
_____X17) Other Hazardous Materials
_____18) Fences
_____19) Waterlines
_____X20) Removal of Small Trees
_____X21) Removal of Hazardous Trees
_____22) Cone Collection
_____23) Timber Harvest (<100 MBF green or 500 MBF salvage)

By process of the adoption of the Administrative Rules for Forest Management on February 27, 2003, pursuant to ARM 36.2.523(5)(a), the Department of Natural Resources and Conservation, Trust Land Management Division, has adopted the above categorical exclusions for activities conducted on state forest lands. "Categorical Exclusion" refers to a type of action that does not individually, collectively, or cumulatively require an EA or EIS unless extraordinary circumstances occur (ARM 36.2.522(5)).

Extraordinary Circumstances:

Will the proposed action affect one or more of the following resources or situations in the project area? If the resource or situation is present, but project design avoids potential adverse effects on the resource, the answer is "no". One "Yes" answer indicates that Categorical Exclusion is not appropriate for the project, and an EA or EIS must be conducted.

YES	NO		
	X	1)	Sites with high erosion risk.
	X	2)	Federally listed threatened and endangered species or critical habitat for threatened and endangered species as designated by the USFWS.
	X	3)	Municipal watersheds.
	X	4)	The SMZ of fish bearing streams or lakes, except for modification or replacement of bridges, culverts and other crossing structures. Although timber harvesting will take place in the SMZ, it will be along an existing county road for the purpose of safety. All harvesting equipment will operate from the existing road surface and will adhere to all State of Montana SMZ laws and restrictions.
	X	5)	State natural area.
	X	6)	Native American religious and cultural sites.
	X	7)	Archaeological sites.
	X	8)	Historic properties and areas.
	X	9)	Several related projects that individually may be subject to categorical exclusion but that may occur at the same time or in the same geographic area. Such related actions may be subject to environmental review even if they are not individually subject to review.
	X	10)	Violations of any applicable state or federal laws or regulations.

The project listed above meets the definition of the indicated categorical exclusion, including specified conditions and extraordinary circumstances, as provided in the Administrative Rules for Forest Management (ARM 36.11.447).

Prepared by: Devin Healy (Name) — 9/1/14 (Date)

Decision by: James (Andy) Burgoyne (Name) — Helena Unit Manager (Title)

(Signature) — 9/1/14 (Date)

Animal Species of Concern

Species List Last Updated **04/21/2014**

MONTANA Natural Heritage Program

A program of the Montana State Library's Natural Resource Information System operated by the University of Montana.

0 Species
Filtered by the following criteria:
Species = Mammals, Birds, Reptiles, Amphibians, Fish, Invertebrates
USFWS = LE (Listed endangered), LT (Listed threatened)
Township = 12 N Range = 4 W

Introduction

The Montana Natural Heritage Program (MTNHP) serves as the state's information source for animals, plants, and plant communities with a focus on species and communities that are rare, threatened, and/or have declining trends and as a result are at risk or potentially at risk of extirpation in Montana.

This report on **Montana Animal Species of Concern** is produced jointly by the Montana Natural Heritage Program (MTNHP) and Montana Department of Fish, Wildlife, and Parks (MFWP). Montana Animal Species of Concern are native Montana animals that are considered to be "at risk" due to declining population trends, threats to their habitats, and/or restricted distribution.

Also included in this report are **Potential Animal Species of Concern** -- animals for which current, often limited, information suggests potential vulnerability or for which additional data are needed before an accurate status assessment can be made.

We also include **Special Status Species** which are species that have some legal protections in place, but are otherwise not recognized as federally listed under the Endangered Species Act and are not Montana Species of Concern. Bald Eagles are a Special Status Species because, although they are no longer protected under the Endangered Species Act and are also no longer a Montana Species of Concern, they are still protected under the Bald and Golden Eagle Protection Act of 1940 (16 U.S.C. 668-668c).

Over the last 200 years, 5 species with historic breeding ranges in Montana have been extirpated from the state; Woodland Caribou (*Rangifer tarandus*), Greater Prairie-Chicken (*Tympanuchus cupido*), Passenger Pigeon (*Ectopistes migratorius*), Pilose Crayfish (*Pacifastacus gambelii*), and Rocky Mountain Locust (*Melanoplus spretus*). Designation as a Montana Animal Species of Concern or Potential Animal Species of Concern is not a statutory or regulatory classification. Instead, these designations provide a basis for resource managers and decision-makers to make proactive decisions regarding species conservation and data collection priorities in order to avoid additional extirpations.

Status determinations are made by MTNHP and MFWP biolgists in consultation with representatives of the Montana Chapter of the Wildlife Society, the Montana Chapter of the American Fisheries Society, and other experts. The process for evaluating and assigning status designations uses the Natural Heritage Program ranking system, described below, which forms the basis for identifying Montana Species of Concern.

How to Read the Lists

What Species are Included in this Report

Montana Species of Concern are defined as vertebrate animals with a state rank of S1, S2, or S3. Vertebrate species with a rank indicating uncertainty (SU), a "range rank" extending below the S3 cutoff (e.g., S3S4), or those ranked S4 for which there is limited baseline information on status are considered Potential Species of Concern. Because documentation for invertebrates is typically less complete than for vertebrates, only those ranked S1 or S2 are included as SOC. Invertebrates with a range rank extending below S2 (e.g., S2S3) are included as SOC only if their global ranks are G2G3 or G3, or if experts agree their occurrence in Montana has been adequately documented. Other invertebrates of concern with global ranks other than G1, G2, or G3 and with state ranks below S2 or range ranks extending below S2 (e.g., S3S4) are treated as Potential Species of Concern.

Organization of List

Both the list of Species of Concern and the list of Potential Species of Concern are grouped taxonomically in the following order: mammals, birds, reptiles, amphibians, fish, and various invertebrates. Within each taxonomic group you can sort species by common name or scientific name.

County Distribution

This column lists the documented county distribution for each species, including extant and historical occurrences. Any occurrences that cross county boundaries are counted for each county. Many older occurrence records and specimen collections are only known from vague location information and the area mapped as the potential area of observation may be quite large, leading to more than one county being counted.

Additions and Deletions

Species that have been added to or deleted from the SOC list due to changes in their state rank are reported in separate sections below; changes in global ranks are not tracked in this report.

Species of Concern

0 Species

Filtered by the following criteria:

Species = Mammals, Birds, Reptiles, Amphibians, Fish, Invertebrates
USFWS = LE (Listed endangered), LT (Listed threatened)
Township = 12 N Range = 4 W

Citation for data on this website:
Montana Animal Species of Concern Report. Montana Natural Heritage Program and Montana Fish, Wildlife and Parks. Retrieved on 7/18/2014, from http://mtnhp.org/SpeciesOfConcern/?AorPng

Plant Species of Concern

Filtered by the following criteria:
Species = Vascular Plants, Bryophytes, Lichens
USFWS = LE (Listed endangered), LT (Listed threatened)
Township = 12 N Range = 4 W

Species List Last Updated **06/18/2014**

MONTANA Natural Heritage Program

A program of the Montana State Library's Natural Resource Information System operated by the University of Montana.

Introduction

The Montana Natural Heritage Program (MTNHP) serves as the state's information source for Species of Concern (SOC) -- plants and animals that are rare, threatened, and/or have declining populations and as a result are at risk or potentially at risk of extirpation in Montana. This report is based on information gathered from field inventories, publications, reports, herbaria specimens, and the knowledge of botanists and other taxonomic experts. Taxa in the SOC category generally include all vascular plant taxa ranked S1, S2, S3 or SH. Nonvascular taxa (bryophytes and lichens) which are not as well documented or studied as vascular plant taxa in the state, are listed as SOC using similar criteria as vascular taxa but are more strictly limited to those taxa which are believed to be the rarest or most vulnerable to extirpation based on current information.

Designation as a Species of Concern is not a statutory or regulatory classification. Instead, these designations provide a basis for resource managers and decision-makers to make proactive decisions regarding species conservation and data collection priorities in order to maintain viable populations and avoid extirpation of species from the state. MTNHP may designate additional taxa as Potential Species of Concern (PSOC). Taxa in this designation include species or subspecies which may be rare, have a restricted range in the state or are otherwise vulnerable to extirpation in at least part of their range but otherwise do not meet the criteria for inclusion as a SOC. An additional designation of Status Under Review is used for those taxa for which additional information is needed to accurately assign a status rank or for which conflicting information exists. Taxa designated as Status Under Review are not included in this document but can be found in the on-line **Fieldguide (http://fieldguide.mt.gov/).**

This web-based report, which replaces the 2006 Plant Species of Concern publication, identifies vascular plant Species of Concern (SOC), bryophyte SOC and lichen SOC in Montana. The MTNHP continuously reviews and updates status ranks as new information and data become available through field surveys, research, and submitted observations. Status ranks and information supporting them are reviewed by botanists and resource specialists. If you wish to comment or contribute information to this process please contact the MTNHP Botanist. The information we receive from botanists and others throughout the state is essential in this process, and contributes to more accurate assessments of species' status. We continue to ask that all observations for SOC, PSOC and Review Status plants be reported to the Heritage Program. A copy of the field survey form specifying the information that should be submitted is available on our **website (http://mtnhp.org/).**

Information concerning plant species contained on the SOC, PSOC or Review lists may be viewed on the MTNHP's on-line Montana Plant Field Guide. The Field Guide provides information for vascular and non-vascular plants, including species' characteristics, identification, habitat, distribution, state rank reasons and references, as well as technical illustrations and photographs of the plants and their habitats. For each species, a link to the NatureServe website (http://www.natureserve.org/) provides access to information on the status of the species throughout North America, assembled from state and provincial Natural Heritage databases. Information in the Montana Field Guide is continuously updated and expanded, so please check it often for current species' information. If you have questions concerning the field guide or find errors or omissions please contact the MTNHP.

Status lists of SOC plants may be queried on-line by county and/or township; taxonomic group or one of several rank/status criteria. More detailed information or additional assistance can be requested from MTNHP using the Information Request function on our **website**, or by phone, e-mail or mail.

How to Read the Lists

The SOC list is organized alphabetically by scientific name (Genus and specific epithet followed by subspecific epithet if any) within the major groups of Vascular Plants, Bryophytes (Mosses and Liverworts) and Lichens. Vascular plants are further sorted by the subgroups: Ferns and Fern Allies, Gymnosperms (if any), Flowering Plants-Dicots and Flowering Plants-Monocots. The list can also be sorted alphabetically by the common name. Additional scientific names as well as the Family name are included in adjacent columns for each species. The nomenclature and taxonomy for many groups of plants continues to change as new research is conducted and published, and as a result no one nomenclatural reference is followed. Publications and web resources which are most relevant to Montana plants include Vascular Plants of Montana (Dorn 1984), NatureServe Explorer, The USDA PLANTS database, Flora of North America (1993-), Grasses of Montana (Lavin and Seibert 2011) and Flora of the Pacific Northwest (Hitchcock and Cronquist 1973). Additionally, an abundance of scientific literature pertinent to Montana plants is available and indispensable in the process of determining the nomenclature and taxonomic concepts used in this report.

Species that have been added to or deleted from the SOC list due to changes in their global or state rank are reported in separate sections below. These changes are also reflected in the date displayed at the top of the report which shows when an addition or deletion to the list last occurred.

County Distribution

Montana counties of record are listed alphabetically with each species. County records of occurrence are determined directly from mapped species occurrences (SO's) in MTNHP databases. A record of occurrence for a particular county may be based on a historical observation which may no longer be extant. Additionally, some plant observations with vague locality information are not mapped in MTNHP databases and as result would not be included in the county distribution for that particular species.

Species of Concern

0 Species

Filtered by the following criteria:

Species = Vascular Plants, Bryophytes, Lichens
USFWS = LE (Listed endangered), LT (Listed threatened)
Township = 12 N Range = 4 W

Citation for data on this website:
Montana Plant Species of Concern Report. Montana Natural Heritage Program. Retrieved on 7/18/2014, from http://mtnhp.org/SpeciesOfConcern/?/orPsp

Tables—Erosion Hazard (Off-Road, Off-Trail) (NHV Vegeative Claaring UXO)

Erosion Hazard (Off-Road, Off-Trail)— Summary by Map Unit — Lewis and Clark County Area, Montana (MT630)						
Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
89D	Geohrock channery loam, cool, 4 to 25 percent slopes	Moderate	Geohrock (85%)	Slope/erodibility (0.50)	54.5	10.6%
			Geohrock (5%)	Slope/erodibility (0.50)		
			Tolex (5%)	Slope/erodibility (0.50)		
			Geohrock, calcareous (5%)	Slope/erodibility (0.50)		
163D	Geohrock-Tolman channery loams, 4 to 35 percent slopes	Moderate	Geohrock (55%)	Slope/erodibility (0.50)	246.6	48.1%
			Tolman (40%)	Slope/erodibility (0.50)		
			Musselshell (1%)	Slope/erodibility (0.50)		
			Crago (1%)	Slope/erodibility (0.50)		
			Hauz (1%)	Slope/erodibility (0.50)		
532B	Geohrock gravelly loam, 2 to 8 percent slopes	Slight	Geohrock (85%)		211.4	41.3%
			Crago (5%)			
			Nippt (5%)			
			Geohrock, greater slope (5%)			
Totals for Area of Interest					**512.5**	**100.0%**

Erosion Hazard (Off-Road, Off-Trail)— Summary by Rating Value		
Rating	Acres in AOI	Percent of AOI
Moderate	301.1	58.7%
Slight	211.4	41.3%
Totals for Area of Interest	**512.5**	**100.0%**

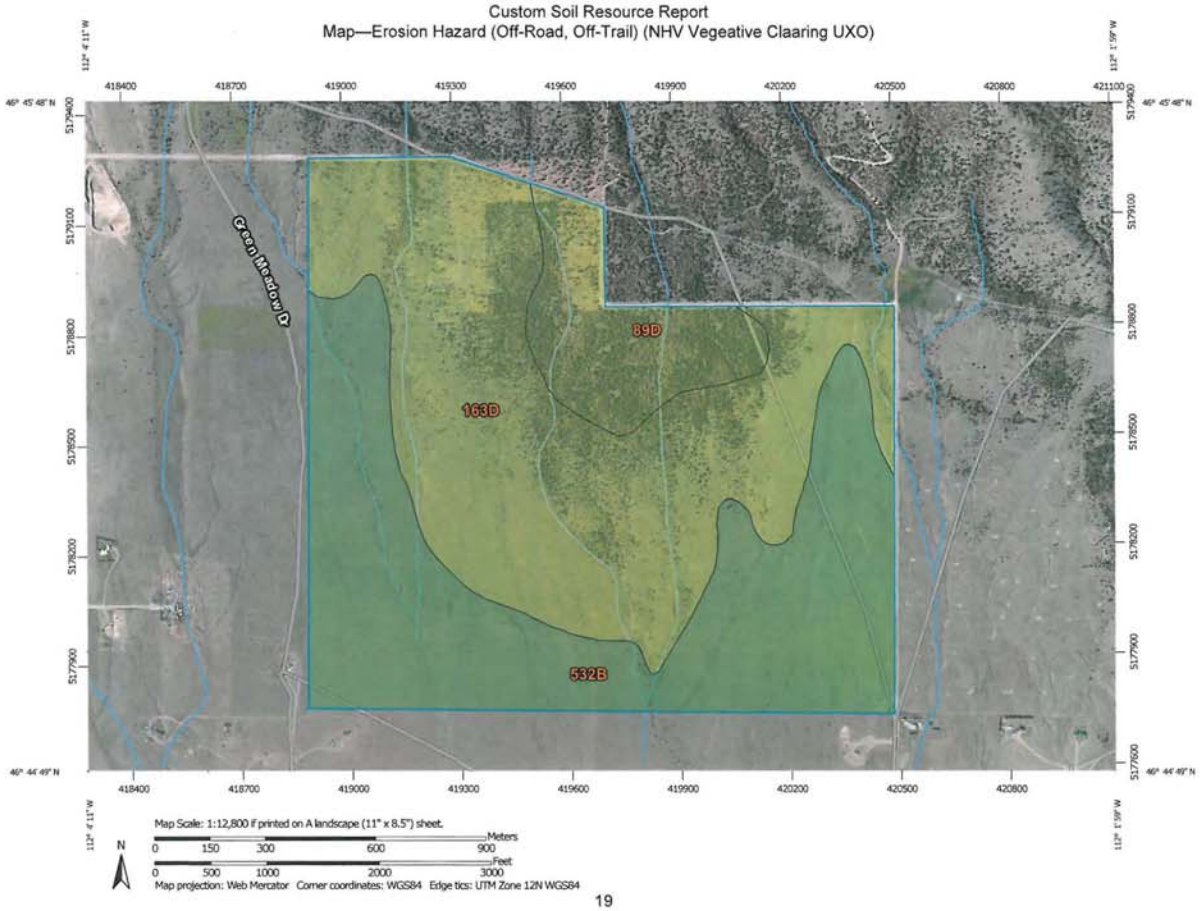
Rating Options—Erosion Hazard (Off-Road, Off-Trail) (NHV Vegeative Claaring UXO)

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Custom Soil Resource Report
Map—Erosion Hazard (Off-Road, Off-Trail) (NHV Vegeative Claaring UXO)



Map Scale: 1:12,800 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 150 300 600 900

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Very severe
- Severe
- Moderate
- Slight
- Not rated or not available

Soil Rating Lines
- Very severe
- Severe
- Moderate
- Slight
- Not rated or not available

Soil Rating Points
- Very severe
- Severe
- Moderate
- Slight
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lewis and Clark County Area, Montana
Survey Area Data: Version 9, Dec 10, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 26, 2010—Apr 3, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.