

# Environmental Scan

## MT 1—ANACONDA TO GEORGETOWN LAKE

### CORRIDOR PLANNING STUDY



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Helena, MT

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## Environmental Scan

### MT 1 – Anaconda to Georgetown Lake Corridor Study

(January 2011)

*DISCLAIMER: This document is a planning level environmental scan based on information obtained from various reports, websites and other publically available sources. The information contained herein is subject to change, and is valid as of the assembly of the report dated January 2011.*



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## Abbreviations and Acronyms

BMPs	Best Management Practices
BOR	Bureau of Reclamation
CAA	Clean Air Act
CECRA	Comprehensive Environmental Cleanup and Responsibility Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CWA	Clean Water Act
DNRC	Department of Natural Resources and Conservation
EA	Environmental Assessment
EIS	Environmental Impact Statement
EO	Executive Order
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Maps
FPPA	Farmland Protection Policy Act
GIS	Geographic Information System
LUST	Leaking Underground Storage Tank
LWCF	Land and Water Conservation Funds
LWQD	Local Water Quality District
MCA	Montana Code Annotated
MDEQ	Montana Department of Environmental Quality
MDT	Montana Department of Transportation
MEPA	Montana Environmental Policy Act
MFWP	Montana Department of Fish, Wildlife, and Parks
MNHP	Montana Natural Heritage Program
MP	Milepost
MPDES	Montana Pollutant Discharge Elimination System
MSAT	Mobile Source Air Toxics
NAC	Noise Abatement Criteria
NEPA	National Environmental Policy Act
NFIP	National Flood Insurance Program
NHP	Natural Heritage Program
NHPA	National Historic Preservation Act
NPL	National Priority List
NPS	National Park Service
NRC	National Response Center
NRHP	National Register of Historic Places
NRIS	Natural Resource Information System
NWI	National Wetlands Inventory
NWR	National Wildlife Refuge
RCRA	Resource Conservation and Recovery Act
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TRI	Toxics Release Inventory

USACOE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
UST	Underground Storage Tank
Section 4(f)	Section 4(f) of the 1966 Department of Transportation Act
Section 6(f)	Section 6(f) of the National Land and Water Conservation Funds Act

# **1 Introduction**

## **1.1 Background**

The primary objective of this Environmental Scan Report is to determine the potential impacts or constraints and opportunities for the MT 1 – Anaconda to Georgetown Corridor Study (Study). The study encompasses the Montana Highway 1 (P-19) corridor from Anaconda (RP 10.06) to Georgetown Lake (RP 27.35). As a planning level scan, the information is obtained from various reports, websites and documentation. This scan is not a detailed environmental investigation.

If any improvement option(s) are moved forward from the Study into project development, a NEPA/MEPA analysis will be completed as part of the normal project development process. The information obtained from the Study may be forwarded into the NEPA/MEPA analysis and does not need to be repeated.

## **1.2 Organization of Report**

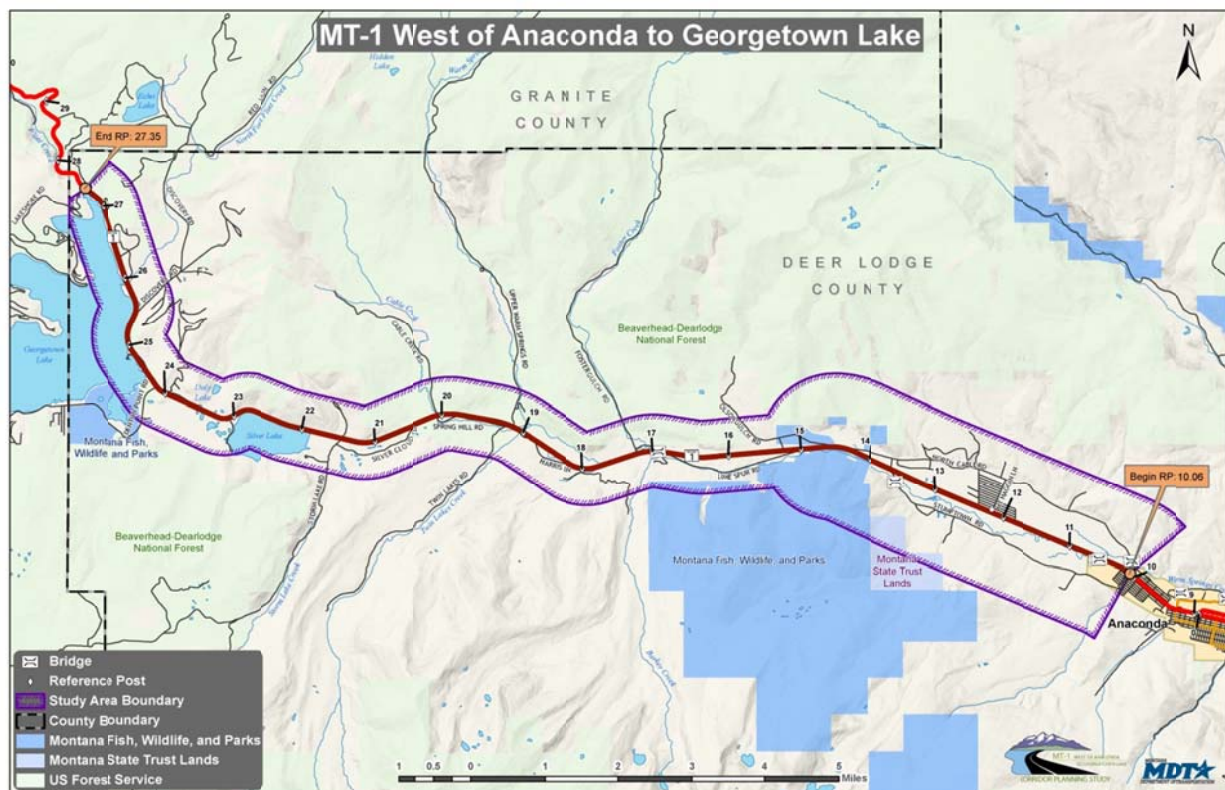
This report goes on to describe the geographic setting of the existing Study corridor. The document continues with descriptions of environmental scan methodologies and results for the geographic area for physical resources and water resources (Section 3), visual resources (Section 4), biological resources (Section 5), cultural and archaeological resources (Section 6), and social (Section 7). A list of tables and appendices is on page 3. A list of abbreviations and acronyms is defined on page 4 and page 5.

# **2 Geographic Setting**

The Study corridor is located in Deer Lodge County in south west Montana. The general topography of Deer Lodge County is mountainous in the extreme, the valleys being little more than depressions between mountain ranges. The average elevation is 6,000 feet, rising to over 10,500 feet on the mountain peaks. The land use within the corridor is predominantly for recreational and residential purposes. The majority of the land within the corridor is undeveloped.

MT-1 is a rural minor arterial on the Primary Highway System and serves as an east-west corridor between Anaconda and Georgetown Lake and also Philipsburg. The Study will cover the section from West of Anaconda (Reference Post 10.06) to Georgetown Lake (Reference Post 27.35). The corridor consists of roadway of varying widths, from 22 feet to 44 feet. The roadway was constructed or improved at various times, as early as 1934 to 1995. A section of the roadway is located on the east shore of Georgetown Lake. Please refer to Figure 1 for the corridor location.





**Figure 1: Study Area Boundary**

The following sections will describe the Study corridor for the purpose of environmental discussions in this document. They are not necessarily indicative of proposed improvement option(s), but rather a collection of geographic areas by which environmental discussions can be grouped.

### 3 Physical Resources

#### 3.1 Land Ownership

Geographic Information System (GIS)-based information was reviewed to assess the amount of area in the study corridor that is public versus privately owned.

Reviews were also conducted to determine the presence of Section 4(f) and Section 6(f) properties along the corridor. Section 4(f) refers to the original section within the Department of Transportation Act of 1966 (49 U.S.C. 303), which set the requirement for consideration of park and recreational lands, wildlife and waterfowl refuges, and historic sites in transportation project development. Prior to approving a project that “uses” a Section 4(f) resource, FHWA must find that there is no prudent or feasible alternative that completely avoids 4(f) resources. “Use” can occur when land is permanently incorporated into a transportation facility or when there is a temporary occupancy of the land that is adverse to a 4(f) resource. Constructive “use” can also occur when a project’s proximity impacts are so severe that the protected activities, features, or attributes that qualify a resource for protection under 4(f) are “substantially impacted”. Section 4(f) resource information was gathered by field observation and review of the National Register of Historic Places (NRHP) list for Deer Lodge County.

Section 6(f) of the Land and Water Conservation Funds Act applies to all projects that impact recreational lands purchased or improved with land and water conservation funds. The Secretary of the Interior must approve any conversion of property acquired or developed with assistance under this act to other than public, outdoor recreation use. At this time, there are no 6(f) resources identified in the study corridor.

### 3.1.1 Deer Lodge County

The land within the Study corridor in Deer Lodge County is predominantly privately owned land. The majority of the land within the Study corridor is undeveloped. Public land ownership maps for the Study corridor are contained in Appendix A.

4(f) resources within the Study corridor are summarized in Table 1.

**Table 1: 4(f) Resources within the Study Area**

Name	Type of 4(f) Resource
BA&P RR Historic District	Historic District
Pumping Station	Historic site
BA&P Spur	Railroad
Malvey Cabin	Historic site
Anaconda-Philipsburg Power Line	Historic site
Silver Lake Water System	Historic site

## 3.2 Soil Resources and Prime Farmland

Information was obtained on soils to determine the presence of prime and unique farmland in the corridor study areas.

The Farmland Protection Policy Act of 1981 (Title 7 United States Code, Chapter 73, Sections 4201-4209) has as its purpose “to minimize the extent to which federal programs contribute to the unnecessary and irreversible conversion of farmland to nonagricultural uses, and to assure that federal programs are administered in a manner that, to the extent practicable, will be compatible with State, unit of local government, and private programs and policies to protect farmland.”

Farmland is defined by the act in Section 4201 as including prime farmland, unique farmland, and farmland, other than prime or unique farmland, that is of statewide or local importance.

Prime farmland soils are those that have the best combination of physical and chemical characteristics for producing food, feed, and forage; the area must also be available for these uses. Prime farmland can be either non-irrigated or lands that would be considered prime if irrigated. Farmland of statewide importance is land, in addition to prime and unique farmlands, that is of statewide importance for the production of food, feed, fiber, forage, and oilseed crops.

The agricultural soils of Deer Lodge County are confined chiefly to the terraces in the vicinity of Galen in the north part of the county and to the benches north of the Big Hole River in the southwest part of the county.

The following paragraphs describe the farmland soils findings for the corridor.

### **3.2.1 Existing MT 1-Anaconda to Georgetown Lake Corridor**

Soil surveys are available (Deer Lodge County) in the MT 1-Anaconda to Georgetown Lake Planning Corridor area. Information regarding areas of prime farmland in the corridor area was compiled from the US Department of Agriculture, Natural Resource Conservation Service (NRCS).

The CPA-106 Farmland Conversion Impact Rating Form for Linear Projects is a way for the NRCS to keep inventory of the Prime and Important farmlands within the state. Soil map units found within the project area have been classified as prime and important farmlands. Project activities associated with the construction of the MT 1-Anaconda to Georgetown Lake Corridor will likely create impacts to the soil map units with prime and important farmland status, thus it is likely required that a CPA-106 Farmland Conversion Impact Rating Form for Linear Projects be completed. The process for completing this form requires mapping of the prime and important farmlands to be converted to non-farmable land, coordination with the NRCS, and final completion of the conversion form.

Appendix B contains maps and descriptions of the farmland classification types found in the Study corridor.

## **3.3 Water Resources**

### **3.3.1 Surface Water**

Sources: Department of Environmental Quality, Clean Water Act Information Center – website

#### Study Corridor

Warm Springs Creek is considered to be in water quality category 4C – TMDLs are not required as no pollutant – related impairment is identified (2008 Water Quality Information, MT Department of Environmental Quality, See Appendix E). The study area occurs within the Upper Clark Fork watershed, within the Columbia basin. A TMDL assessment for this stretch of Warm Springs Creek has not been completed to date. Channelization and highway/road/bridge runoff are considered probable sources of impairment.

Warm Springs Creek fully supports the following beneficial uses: agriculture, industrial, and primary contact recreation. The creek partially supports aquatic life and cold water fishery. There is insufficient information regarding its support of drinking water supply.

Warm Springs Creek is the major waterbody that parallels MT-1 throughout the study corridor and crosses the highway at approximately RP 10.5 near the beginning of the study area. Numerous intermittent and ephemeral tributaries, including Big Gulch, Olson Gulch, and Grays Gulch flow out of the mountains on either side of the highway. See Appendix E.

Warm Springs Creek re-enters the study corridor around RP 19.0 and continues to parallel MT-1 throughout the study corridor, crossing the highway near RP 17.0. The North Fork of Flint Creek crosses the highway near RP 25.9, joining Flint Creek in the vicinity of Georgetown Lake.

Storm Lake Creek crosses the highway near RP 20.8 and joins Cable Creek just above its highway crossing at RP 20.1. Storm Lake Creek parallels the highway and joins Twin Lakes Creek above two highway crossing near RP 19.1. These creeks join Warm Springs Creek near RP 19.0. Foster Creek and Barker Creek join Warm Springs Creek near RP 17.0. Numerous intermittent and ephemeral drainages, as well as irrigation ditches, flow out of the mountains on either side of the highway within the study area. Georgetown Lake occurs immediately west of the highway between RP 27.0 and RP 24.5 while Silver Lake occurs immediately south of the highway between RP 22.0 and 23.0. See Appendix E.

Maps and GIS data were reviewed to identify the location of surface water bodies within the Study area, including rivers, streams, lakes, or reservoirs. Warm Springs Creek and its tributaries Cable Creek, Foster Creek, and Twin Lakes Creek lie within this study area.

The Study corridor travels through the Upper Clark Fork Watershed (Hydrologic Unit Code: (17010201.) Information on the Clark Fork River and its tributaries within the study area was obtained from MDEQ's website.

A report titled [Upper Clark Fork River Tributaries Sediment, Metals, and Temperature TMDLs and Framework for Water Quality Restoration](#) dated March 2010 is available on the DEQ website under 'Final Documents.' This document presents a Total Maximum Daily Load (TMDL) and framework water quality restoration for 78 pollutant-water body combinations on nineteen impaired tributaries in the Upper Clark Fork River TMDL Planning Area (TPA). The Upper Clark Fork TPA extends from Butte to Drummond, Montana, and includes Warm Springs Creek. This plan was developed by the Montana Department of Environmental Quality (DEQ) and submitted to the U.S. Environmental Protection Agency (U.S. EPA) for approval. The Montana Water Quality Act requires DEQ to develop TMDLs for streams and lakes that do not meet, or are not expected to meet, Montana water quality standards. A TMDL is the maximum amount of a pollutant a water body can receive and still meet water quality standards. The goal of TMDLs is to eventually attain and maintain water quality standards in all of Montana's streams and lakes,

Section 303, subsection "d" of the Clean Water Act requires the State of Montana to develop a list, subject to USEPA approval, of water bodies that do not meet water quality standards. When water quality fails to meet state water quality standards, MDEQ determines the causes and sources of pollutants in a sub-basin assessment and sets maximum pollutant levels, called total maximum daily loads (TMDL).

A TMDL sets maximum pollutant levels in a watershed. The TMDLs become the basis for implementation plans to restore the water quality to a level that supports its designated beneficial uses. The implementation plans identify and describe pollutant controls and management measures to be undertaken (such as best management practices), the mechanisms by which the selected measures would be put into action, and the individuals and entities responsible for implementation projects.

The Upper Clark Fork watershed is listed in the 2010 Integrated 303(d)/305(b) Water Quality Report for Montana by MDEQ. The water bodies within the Upper Clark Fork Watershed that are located in the study area are Category 5 and Category 4C. Category 5 water bodies are waters where one or more applicable beneficial use has been assessed as being impaired or

threatened, and a TMDL is required to address the factors causing the impairment or threat. Category 4C water bodies are waters where TMDLs are not required as no pollutant-related use impairment is identified. TMDLs have not yet been written for water bodies in this watershed. When TMDLs are prepared and implementation plans are in place, any construction practices would have to comply with the requirements set forth in the plan.

303(d) listed water bodies within the Upper Clark Fork Watershed that are located in the Study area are summarized in Table 2. Appendix E contains the MDEQ's 2008 Water Quality Information from the Clean Water Act Information Center

**Table 2: 303(d) Listed Water Bodies in the Study Area**

Water Body	Water Body ID	Probable Cause of Impairment	Impaired Uses
WARM SPRINGS CREEK	MT76G002_012	Arsenic	Aquatic Life, Cold Water Fishery, Drinking Water
		Cadmium, Copper, Lead Zinc, Iron	Aquatic Life, Cold Water Fishery

### 3.3.2 Groundwater

Deer Lodge County has not developed Local Water Quality District's (LWQD). LWQDs are established to protect, preserve, and improve the quality of surface water and groundwater within the district. Currently there are four in Montana. LWQDs are formed pursuant to 701304501 et. Seq., MCA by county governments. MDEQ provides support to LWQD programs, but does not have an active management role in their activities. LWQD serve as local government districts with a governing board of directors, and funding obtained from fees collected annually with county taxes. A significant component of selected district programs is the ability to participate in the enforcement of the Montana Water Quality Act and related rules.

If a LWQD is developed for Deer Lodge County, water quality protection measures may have to be addressed at the local level, in addition to the federal level and state level.

### 3.3.3 Irrigation

Very little irrigated farmland exists in Deer Lodge County adjacent to the Study corridor. Impacts to irrigation facilities should be avoided to the greatest extent practicable. However, depending on the improvement option(s) proposed during the corridor Study, there is a potential to impact lateral and longitudinal irrigation facilities. To mitigate lateral impacts, MDT will likely reconstruct existing culverts to maintain existing size and flow requirements. Operators of irrigation facilities will be contacted for flow requirements during final design. To mitigate longitudinal impacts, MDT will need to make reasonable efforts to relocate the facilities along the new roadway embankment and maintain capacity of the original ditch. Impacted irrigation canals and ditches will need to be relocated in consultation with ditch owners to minimize impacts to farming operations.



Potential impacts to irrigation facilities will need to be examined to determine if the irrigation facilities are considered waters of the U.S. and subject to jurisdiction by the U.S. Army Corps of Engineers (USACOE).

Irrigation maps for Deer Lodge County are provided in Appendix G.

### **3.4 Wetlands**

Sources: Natural Resource Inventory System, National Wetland Inventory mapping – website  
Natural Resource Inventory System, SSURGO soil mapping units – website  
Natural Resources Conservation Service, web soil survey – website

The US Army Corps of Engineers (ACOE) defines wetlands as those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

National Wetland Inventory (NWI) Mapping data is available for this area (See Appendix E). Three tiles from the lower right of Map Tile #26 from the Montana Wetland Maps (NRIS) – Wets Valley, Silver Lake, and Georgetown Lake encompass the limits of the corridor study. West Valley and Silver Lake NWI mapping was completed from 2005 NAIP imagery and is available from NWI or NRIS. Georgetown Lake mapping is provisional NWI mapping and is available as PDFs. NWI maps are generated by the USFWS, and are based on the USFWS definition of wetlands, which does not follow the ACOE definition that MDT uses in wetland determination and delineation. NWI maps are typically generated based on aerial and satellite imagery, and are not accurate or detailed enough for MDT project wetland determination and/or delineation.

The majority of the wetland areas logically occur within the riparian bottomlands associated with the major drainages in the study area, especially Warm Springs Creek, its tributaries, and the major draws coming out from the mountains. A notable amount of potential wetland area occurs in the valley adjacent to the current highway alignment. Any project forwarded from this corridor study has the potential to impact wetland areas, riparian areas, and streams.

Formal wetland delineations should be conducted according to standard USACOE and MDT defined procedures during the project development process. Impacts to wetland areas should be avoided and minimized through conscientious project design. Documentation of avoidance and minimization measures should be included in the project development. Any unavoidable wetland impacts must be quantified and compensated for through mitigation in accordance with USACOE regulatory requirements.

During any project development process, evaluation of potential stream impacts must be completed according to the USACOE May, 2010 Stream Mitigation Procedure (or revised version). The need for any stream mitigation should be identified and secured prior to the permitting process.

### **3.5 Montana Fish, Wildlife & Parks Wildlife Management Areas**

The Garrity Mountain Wildlife Management Area (WMA) covers 9,475 acres and is located near the mid-point and south of the study area. This public land is managed by Montana Fish, Wildlife & Parks. Just south of the highway, Garrity Mountain rises over 8,000 feet in elevation. The mountain's open, grassy areas provide critical winter foraging for elk, deer, and bighorn sheep, while pockets of timber offer shelter and thermal cover.

North of the highway in the same vicinity is the Blue Eyed Nellie WMA. The management goal of this 164 acre area is to provide winter range for Bighorn Sheep and opportunities for wildlife observation. See Appendix A for maps of these areas.

### **3.6 Floodplains (EO 11988) and Floodways**

Executive Order (EO) 11988, Floodplain Management, requires federal agencies to avoid direct or indirect support of floodplain development whenever a practicable alternative exists. EO 11988 and 23 CFR 650 Part A requires an evaluation of project alternatives to determine the extent of any encroachment into the base floodplain. The base flood (100-year flood) is the regulatory standard used by federal agencies and most states to administer floodplain management programs. A “floodplain” is defined as lowland and relatively flat areas adjoining inland and coastal waters, including flood-prone areas of offshore islands, with a one percent or greater chance of flooding in a given year. As described in FHWA’s floodplain regulation (23 CFR 650 Part A), floodplains provide natural and beneficial values serving as areas for fish, wildlife, plants, open space, natural flood moderation, water quality maintenance, and groundwater recharge.

Within most of the Study corridor, there are 100-year floodplains delineated by the Federal Emergency Management Agency (FEMA). There are FEMA issued flood maps for the east end of the study area within Deer Lodge County however no maps are available for the west end in the Georgetown Lake vicinity where the map index notes that it is in Zone D – undetermined flood hazard. If a project is forwarded from the improvement option(s), coordination with Deer Lodge County should be conducted during the project development process to obtain the necessary floodplain permits.

### **3.7 Hazardous Substances**

The Montana Natural Resource Information System (NRIS) database was searched for underground storage tank (UST) sites, leaking underground storage tank (LUST) sites, abandoned mine sites, remediation response sites, landfills, National Priority List (NPL) sites, hazardous waste, crude oil pipelines, and toxic release inventory sites in the vicinity of the Study corridor.

The following sites along the corridor study area were initially identified as locations with potential contamination impacts:

- several underground storage tank locations;
- four leaking underground storage tank locations;
- several abandoned and inactive mine sites, and;
- one Federal Superfund program site (*Georgetown Railroad*).

Given the lack of location precision in the NRIS database, a ground review along the corridor will be necessary to determine if any of these sites are in close proximity to the road and/or proposed alignments.

After an alignment has been selected and the conceptual design has been completed, further evaluation may be needed at specific sites to determine if contamination will be encountered during construction. This may include reviewing MDEQ/EPA files and conducting subsurface investigation activities to determine the extent of soil and groundwater contamination. If contaminated soils or groundwater is encountered during construction, handling and disposing of the contaminated material will be conducted in accordance with State, Federal, and local laws and rules.

### 3.8 Air Quality

EPA designates communities that do not meet *National Ambient Air Quality Standards (NAAQS)* as “non-attainment areas.” States are then required to develop a plan to control source emissions and ensure future attainment of NAAQS. The MT 1 – Anaconda to Georgetown Corridor is not located in a non-attainment area for PM-2.5, PM-10, or carbon monoxide (CO). Additionally, there are no nearby PM 2.5, PM-10 or CO non-attainment areas.

Depending on the scope of the project being considered along this corridor, an evaluation of mobile source air toxics (MSATs) may be required. MSATs are compounds emitted from highway vehicles and off-road equipment which are known or suspected to cause cancer or other serious health and environmental effects.

### 3.9 Traffic Noise

Traffic noise may need to be evaluated for any planned improvements to the MT 1 – Anaconda to Georgetown Corridor. If the roadway improvements are limited (e.g. the horizontal and vertical alignments are not changed and the highway remains a 2-lane facility) then the project would *not* be considered a Type I project. If the improvements planned for the road include a significant shift in the horizontal or vertical alignments, increasing the number of thru-lanes, or increasing the traffic speed and volume then the project would be considered a Type I project.

A detailed noise analysis would be required if the project is considered a Type I project. A detailed noise analysis includes measuring ambient noise levels at selected receivers and modeling design year noise levels using projected traffic volumes. Noise abatement measures would be considered for the project if noise levels *approach* or *substantially exceed* the noise abatement criteria.

If traffic noise impacts are shown to exist on the project, a number of possible abatement measures may be considered, including but not limited to the following:

- Altering the horizontal or vertical alignment;
- Constructing noise barriers such as sound walls or earthen berms; and/or
- Decreasing traffic speed limits.

The noise abatement measures must be considered *reasonable* and *feasible* prior to implementation.

Lastly, construction activities along the MT 1 – Anaconda to Georgetown Corridor Study may cause localized, short-duration noise impacts. These impacts can be minimized by using standard MDT specifications for the control of noise sources during construction.

## **4 Visual Resources**

Visual resources refer to the landscape character (what is seen), visual sensitivity (human preferences and values regarding what is seen), scenic integrity (degree of intactness and wholeness in landscape character), and landscape visibility (relative distance of seen areas) of a geographically defined view shed.

The landscape throughout the Study corridor contains an array of biological, historic, wildlife, ecological, and cultural resources.

## **5 Biological Resources**

The following information applies to natural resources potentially affected by within the designated project study area boundary for this project. The resources evaluated are present within the study boundary, and could potentially be affected by any project proposed and evaluated through the corridor study process. The information provided herein is the product of a high-level baseline scan, and therefore lacks detail sufficient to quantify potential impacts resulting from the chosen alignment or project design. This general information is provided to guide future detailed analysis and evaluation of potential project-related impacts to natural resources present within the defined study area boundary. The information reflects a baseline natural resource condition of the study area, and is provided with the understanding that it is not an inclusive list and that appropriate level of detail analysis will be conducted prior to project scoping, and that conservation or mitigation measures will be developed and refined throughout the NEPA/MEPA process and project design development.

Depending on the level of detail available through the high-level baseline scan, some of the information has been provided at the county level, some at the entire corridor study area level, and some has been broken up into reference points of the study area.

### **5.1 Fish and Wildlife**

#### **5.1.1 General Fish and Wildlife**

Sources: Montana Natural Heritage Program, Natural Heritage Tracker  
(Deer Lodge County) – website

Foresman, K.R. 2001. The Wild Mammals of Montana. Special Publication 12, The  
American Society of Mammalogists. Lawrence, Kansas: Allen Press

MDT – Maintenance Animal Incident Reporting Database, 1998-2009

Montana Fish, Wildlife & Parks – Wildlife Management Areas GIS layers

**Mammals:** Wildlife species inhabiting or traversing the project study area are typical of those that occur in mixed forests and intermountain valley grasslands of south central Montana. Of the 108 mammal species known to occur in the state, 65 are known or suspected to occur in Deer Lodge County (Foresman, 2001., See Appendix C).

Common mammals occupying habitats in, traversing, or having a distribution range that overlaps the study area (See Appendix C) are white-tail deer (*Odocoileus virginianus*), mule deer (*Odocoileus hemionus*), black bear (*Ursus americanus*), elk (*Cervus canadensis*), mountain lion (*Puma concolor*), and coyote (*Canis latrans*). A large herd of bighorn sheep (*Ovis canadensis*) occupy habitat in the Flint, Anaconda, and Pintler mountains and are frequently observed on or adjacent to MT-1 in the study area, especially during winter. Other common mammals potentially occurring in the project area include but are not limited to the porcupine (*Erethizon dorsatum*), raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), badger (*Taxidea taxus*), bobcat (*Felix rufus*), red fox (*Vulpes vulpes*), muskrat (*Ondatra zibethicus*), Richardson's ground squirrel (*Spermophilus richardsonii*), deer mouse (*Peromyscus maniculatus*), meadow vole (*Microtus pennsylvanicus*), and a variety of bat species.

A review of the MDT Maintenance Animal Incident Database for the time period from January 1999 through December 2009 indicates that animal-vehicle collisions have occurred numerous times throughout that period on MT-1 between RP 10.0 and RP 28.0, which are the reference posts that occur within the project study area (See Appendix C). With the exception of only a few other animals, white-tail deer account for the vast majority of the recorded wildlife mortality along the highway within the study area. There are a total of 105 records from that time period between RP 10 and RP 15, in the study area. Nearly all of them are white-tail deer, with the exception of two mule-deer, two elk, and skunk. Between RP 15 to RP 28, there are 166 records, and again, nearly all of them white-tail deer. A few mule deer, a black bear, two coyotes, a few skunks, and an elk comprise the other records. Peaks in recorded roadkill occur near RP 13, between RP 15 and 16, and between RP 27 and 28.

A large bighorn sheep herd exists in this corridor study area. A map showing the bighorn sheep distribution near the Study area is provided in Appendix C. Bighorn sheep occur on both sides of MT-1 throughout the study area, but especially near the Wildlife Management Area at Garrity Mountain. Bighorn sheep are attracted to the salt in de-icing material used on highways. The use of de-icing material in winter may cause bighorn sheep to concentrate on and adjacent to the roadway increasing incidents of vehicle collisions with bighorn sheep.

In fall of 2010, eight big horn sheep, including two trophy rams, were killed in a single incident on MT-1, approximately a half a mile after westbound drivers leave the 45 mph zone and enter the 70 mph zone (See Appendix C). Bighorn frequently graze alongside the roadway in this area and lick the salt from the roadway during the winter months. Three other rams were killed by a vehicle in the same area earlier in the year. Recently, a pneumonia outbreak has resulted in the death of some of the animals, and culling of others by MFWP in attempts to prevent further spread of the disease. MFWP biologists estimate that of the 300 animals currently occupying the area, only about 1/3 of the herd is likely to survive the winter (See Appendix C).

If a project is forwarded from the corridor study, mitigation measures should be explored during the project development process to reduce the potential for bighorn sheep/vehicle collisions during the winter months. Potential options include, but are not limited to: 1) variable message signing during the winter months, 2) reduced speed limits during winter, and 3) public education campaigns. MFWP's area wildlife biologist should be contacted for local expertise on the bighorn sheep herd in the study area. Preventing future animal-vehicle collisions with big horn sheep along this section of MT-1 is critical to the survival of the herd and future viability of the big horn sheep population in Montana.



Amphibians and Reptiles: According to the Montana Natural Heritage Program - Natural Heritage Tracker (2010) database (See Appendix C), which records and maps documented observations of species in a known location, amphibian species known to occur in Deer Lodge County and potentially occurring in the project study area include but are not limited to the Columbia spotted frog (*Rana luteiventris*), Rocky Mountain tailed frog (*Ascaphus montanus*), and long-toed salamander (*Ambystoma macrodactylum*). Over a dozen invertebrate species, some listed as SOC also have been observed in the project study area.

SOC\* = State Species of Concern

Birds: According to the Montana Natural Heritage Program - Natural Heritage Tracker (2009) database, which records and maps documented observations of species in a known location, there are a few hundred different species of birds documented in Deer Lodge County, with the potential to occur and nest in the project study area (See Appendix C). These species include representative songbirds, birds of prey, waterfowl, owls, and shorebirds, including several state species of concern. Most avian observations occur in the riparian draws and hillsides associated with the numerous drainages along the study corridor and surrounding the lakes.

Migratory birds are protected under the Migratory Bird Treaty Act. The Migratory Bird Treaty Act is a strict liability law that provides it is unlawful to pursue, hunt, take, capture or kill; attempt to take, capture or kill; possess, offer to or sell, barter, purchase, deliver or cause to be shipped, exported, imported, transported, carried or received any migratory bird, part, nest, egg or product, manufactured or not. Direct disturbance of an occupied (with birds or eggs) nest is prohibited under the law. The destruction of unoccupied nests of eagles; colonial nesters such as cormorants, herons, and pelicans; and some ground/cavity nesters such as burrowing owls or bank swallows may be prohibited under the Migratory Bird Treaty Act.

Bald and golden eagles are protected by the Migratory Birds Treaty Act and managed under the Bald and Golden Eagle Protection Act. The Bald and Golden Eagle Protection Act prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" bald eagles, including their parts, nests, or eggs. The Act provides criminal penalties for persons who "take, possess, sell, purchase, barter, offer to sell, purchase or barter, transport, export or import, at any time or any manner, any bald eagle or golden eagle, alive or dead, or any part, nest, or egg thereof." The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb."

Montana Fish, Wildlife & Parks manages a Wildlife Management Area adjacent to both sides of the highway in the vicinity of Garrity Mountain. Further information regarding the WMA can be found under the Land Use section of this document.

### **5.1.2 Aquatic Resources**

Sources: Montana Natural Heritage Program, Natural Heritage Tracker  
(Deer Lodge county) – website

Montana Fish, Wildlife & Parks – Montana Fisheries Information System (MFISH)  
Data, Warm Springs Creek - website

Fisheries: Warm Springs Creek is the major waterbody which parallels and is crossed by the highway within the study area. Multiple tributaries to Warm Springs Creek confluence in

proximity to the study area. The Stumptown Pond and AMC Pond occur near the highway just west of Anaconda, while Silver Lake and Georgetown Lake occur adjacent to the highway near the northern terminus of the study area.

According to the MFISH database (2010), fish species abundantly/commonly occurring within Warm Springs Creek within the study area are brown trout (*Salmo trutta*, ENN\*), longnose sucker (*Catostomus catostomus*), mottled sculpin (*Cottus bairdi*), rainbow trout (*Onchorynchus mykiss*), and slimy sculpin (*Cottus cognatus*). Species occurring rarely within this river stretch are the brook trout (*Salvelinus fontinalis*, ENN\*), bull trout (*Salvelinus confluentus*, SOC\*\*), mountain whitefish (*Prosopium williamsoni*), and westslope cutthroat trout (*Onchorynchus clarkia lewisi*, SOC\*\*)(See Appendix E). Hybrids of brook trout and bull trout are rare while hybrids of westslope cutthroat and rainbow trout are abundant. The stream stretch between river miles 2.6 and 32.6 is considered bull trout core area, but not node area. River miles from 24.2 to 32.6 are considered MFWP protected areas for big game wintering/spring usage.

ENN\* = Exotic species, not native to Montana

SOC\*\* = State species of special concern

The tributaries and other drainages occurring within the study area have the potential to support all or some of the fish species listed above. Fish passage and/or barrier opportunities must be considered at all affected drainages if a project is forwarded from this corridor study.

Warm Springs Creek is rated as outstanding fisheries resource value by MFWP and receives recreational angler use year-round. Ponds and lakes within the study area are also recreation destinations. Silver Lake and Georgetown Lake are managed as a recreational fishery resource by MFWP. There are several access roads from the highway into adjacent public lands as well. The corridor study should take recreational traffic and access points, as well as destinations into consideration.

### **5.1.3 Threatened and Endangered Species**

Sources: United States Fish and Wildlife Service, Mountain Prairie Region (6) – Threatened and Endangered species by Montana County, October 2010 - website

Montana Natural Heritage Program, Montana Field Guide database – website

The federal list of endangered and threatened species is maintained by the USFWS. Species on this list receive protection under the Endangered Species Act (ESA). An ‘endangered’ species is one that is in danger of extinction throughout all or a significant portion of its range. A ‘threatened’ species is one that is likely to become endangered in the foreseeable future. The USFWS also maintains a list of species that are candidates or proposed for possible addition to the federal list.

According to the USFWS, three threatened, endangered or candidate species are listed as occurring in Deer Lodge County:

**Table 4: Threatened and Endangered Species**

<b>DEER LODGE COUNTY</b>		
<i>Salvelinus confluentus</i>	Bull Trout	LT, CH, PCH
<i>Canis lupus</i>	Gray Wolf	LE, XN
<i>Thymallus arcticus</i>	Arctic Grayling (Upper Missouri River DPS)	C

Abbreviations:

LT – Listed Threatened

CH – Critical Habitat

PCH – Potential Critical Habitat

LE – Listed Endangered

XN – Experimental, Non-Essential

C – Candidate

Obviously, the two fish species potentially occur within some of the drainages occurring within the study area. Warm Springs Creek is considered bull trout core habitat. If a project is forwarded from the corridor study, an evaluation of potential effects to the gray wolf, Canada lynx, bull trout and arctic grayling will need to be completed during the project development process. As federal status of protected species changes as a result of litigation over time, reevaluation of the listed status and afforded protection to these and other species should be completed prior to issuing a determination of effect relative to potential project impacts.

#### 5.1.4 Species of Concern

Sources: Montana Natural Heritage Program, Natural Heritage Tracker  
Elemental Occurrences database – website

Montana Species of Concern are native animals breeding in the state that are considered to be “at risk” due to declining population trends, threats to their habitats, and/or restricted distribution (See Appendix C). Designation of a species as a Montana Species of Concern is not a statutory or regulatory classification. Instead, these designations provide a basis for resource managers and decision-makers to direct limited resources to priority data collection needs and address conservation needs proactively. Each species is assigned a state rank that ranges from S1 (greatest concern) to S5 (least concern). Other state ranks include SU (unrankable due to insufficient information), SH (historically occurred), and SX (believed to be extinct). State ranks may be followed by modifiers, such as B (breeding) or N (non-breeding).

A search of the Montana Natural Heritage Program species of special concern database revealed five mammal species (Canada lynx (*Lynx canadensis*), Dwarf shrew (*Sorex nanus*), fisher (*Martes pennanti*), gray wolf (*Canis lupus*), and wolverine (*Gulo gulo*)) and one bird species (Peregrine falcon, *Falco peregrinus*) occurring within the study area just west of Anaconda (See Appendix C). Four mammal species (Canada lynx (*Lynx canadensis*), fisher (*Martes pennanti*), gray wolf (*Canis lupus*), and wolverine (*Gulo gulo*)) have been documented occurring in the remaining portions of the study area. Five bird species (Bald eagle, *Haliaeetus leucocephalus*), great blue heron (*Ardea herodias*) rookeries, great gray owl (*Strix nebulosa*), Lewis’s woodpecker (*Melanerpes lewis*), and northern goshawk (*Accipiter gentilis*) have been documented breeding within the study area. Two fish species of concern (bull trout (*Salvelinus confluentus*) and westslope cutthroat trout (*Onchorynchus clarkia lewisi*)) occur within drainages

within the corridor study area. One invertebrate species and three vascular plant species of concern have also been documented.

As mentioned in the sections above, there are other sensitive species not listed here that also have the potential to occur within the study area. A thorough field investigation for the presence and extent of these species should be conducted during the design phase. If present, special conditions to the project design or construction should be considered to avoid or minimize impacts to these species.

### **5.1.5 Wildlife and Traffic Concerns**

During the project development process, MDT should work with MFWP Wildlife Biologists for the area to determine what measures, if any, are needed to address wildlife crossings along the corridor improvements. To facilitate wildlife movement and migrations through the project area, right-of-way fencing should be designed with a maximum of 4 strands of barbed wire, and it is preferable to install wildlife friendly fence along the project.

## **5.2 Vegetation**

Sources: Montana Natural Heritage Program (MNHP)  
Montana Ecological Systems – Landcover Report – Deer Lodge County  
<http://mtnhp.org/mapviewer/>

According to the MNHP Landcover Report, seventy-five percent of the vegetative landcover in Deer Lodge County is comprised of Rocky Mountain Lodgepole Pine Forest (23%), Rocky Mountain Lower Montane, Foothill, and Valley Grassland (14%), Montane Sagebrush Steppe (12%), Rocky Mountain Montane Douglas-fir Forest and Woodland (9%), Rocky Mountain Subalpine-Upper Montane Grassland (7%), Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland (6%), and Northern Rock Mountain Lower Montane Riparian Woodland and Shrubland (4%) (See Appendix H). In the vicinity of the study corridor, a combination of lodgepole pine forest and grasslands dominate the hillsides and foothills. Riparian woodland and shrubland line the riparian corridors of the major drainages, especially Warm Springs Creek. Patches of previously harvested forest-tree, forest-shrub, and forest-grassland regeneration occurs along the slopes within the higher mountain elevations. Adjacent to the highway, low-intensity development has occurred.

Specific information regarding the dominant ecological system types and a landcover map of the project study area can be found in the landcover reports in Appendix H.

### **5.2.1 Threatened and Endangered Species**

The federal list of endangered and threatened species is maintained by the USFWS. Species on this list receive protection under the Endangered Species Act (ESA). An ‘endangered’ species is one that is in danger of extinction throughout all or a significant portion of its range. A ‘threatened’ species is one that is likely to become endangered in the foreseeable future. The USFWS also maintains a list of species that are candidates or proposed for possible addition to the federal list.

The endangered, threatened, proposed, and candidate plant species list for Montana counties (May 2009) was downloaded from the USFWS website on July 28, 2009. This list generally

identifies the counties where one would reasonably expect the species to occur, not necessarily every county where the species is listed.

There are no endangered, threatened, proposed, or candidate plant species listed for Deer Lodge County, and none are currently expected to occur in the Study area. If a project is forwarded from the improvement option(s), an evaluation of potential impacts to all endangered, threatened, proposed, or candidate species will need be done during the project development process.

### **5.2.2 Noxious Weeds**

Sources: University of Montana, Invaders Database System – website

Section 7-22-2101 of the Montana County Weed Control Act defines "Noxious Weed" as:

- (i) a statewide noxious weed by rule of the department [of Agriculture]; or
- (ii) a district noxious weed by a [county weed] board, following public notice of intent and a public hearing.

Noxious weeds degrade native vegetative communities, choke streams, compete with native plants, create fire hazards, degrade agricultural and recreational lands, and pose threats to the viability of livestock, humans and wildlife. Areas with a history of disturbance, like highway rights-of-way, are at particular risk of weed encroachment. The Invaders Database System lists 60 exotic plant species and 18 noxious weed species documented in Deer Lodge County (See Appendix H).

Anaconda-Deer Lodge County (ADLC) has additional species that they consider to be noxious. The additional species considered noxious by ADLC were defined by Resolution 10-24, and include the following: Babysbreath, Common Mullein, Curley Dock, Kochia, Musk Thistle, and Sowthistle. Since ADLC has designated these additional plants to a "noxious" status in their county, landowners must then treat those county-specific plants in a similar way as those designated by the Montana Department of Agriculture

If a project is forwarded from the corridor study, field surveys for noxious weeds should commence prior to any ground disturbance. Construction activities associated with the project should abide by the MDT "Roadside Vegetation Management Plan – Integrated Weed Management Component", dated April 2006. Coordination with the Deer Lodge County Weed Supervisor should commence during project development and at the time of construction to establish specific guidance for noxious weed control relative to this project.

## **6 Cultural and Archaeological Resources**

If MDT projects forwarded from the Study are federally-funded, MDT would need to conduct a cultural resource survey of the Area of Potential Effect for this project as specified in Section 106 of the National Historic Preservation Act (36 CFR 800). Section 106 requires Federal agencies to "take into account the effects of their undertakings on historic properties." The purpose of the Section 106 process is to identify historic properties that could be affected by the undertaking, assess the effects of the project and investigate methods to avoid, minimize or mitigate any adverse effects on historic properties. Special protections to these properties are afforded protection under Section 4(f) of the Transportation Act.



The Study corridor contains many cultural resources, which consist of the Anaconda to Philipsburg Power Line (24DL0496), a pumping station (24DL0425), the Silver Lake Water System (24DL0691), the National Register of Historic Places-listed Butte, Anaconda & Pacific Railroad Historic District (24DL0211), a railroad spur line (24DL0426), and the Malvey Cabin (24DL0427). Cultural resources within this Study corridor may be a significant issue and is important to address as planning progresses on this Study.

The Study area is located along MT-1 between the western city limits of Anaconda to the dam at Georgetown Lake. A potential project may include the widening and reconstruction of the highway to accommodate additional traffic. The cultural resource survey would be dependent on the preferred improvement option(s) developed for the corridor. The Cultural Resources Information System (CRIS) and Cultural Resources Annotated Bibliography (CRABS) indicates that 48 cultural resource surveys have been conducted within or near the Study corridor between 1979 and 2009. There are five recorded National Register of Historic Places-eligible historic properties within or near the existing highway and one National Register-listed site, the Butte, Anaconda & Pacific Railroad Historic District (24DL0211). A windshield survey of the proposed survey area also revealed there are other unrecorded historic-age properties located in the vicinity of MT-1. Table 5 lists the previously recorded historic properties, their approximate locations and National Register of Historic Places (NRHP) eligibility. Archaeological sites have been discovered within and near the corridor and there is a possibility that other sites might be located within it.

**Table 5: Historic Properties**

Site	Site No.	Section	Township	Range	NRHP elig.
BA&P RR Historic District	24DL211	30 25 26	5N 5N	11W 12W	NRHP Listed
Pumping Station	24DL425	17, 18, 20, 21	5N	13W	Yes
BA & P Spur	24DL426	17	5N	13W	Yes
Malvey Cabin	24DL427	18	5N	13W	Yes
Anaconda-Philipsburg Power Line	24DL496	6,8,16, 17, 21, 22, 25- 27	5N	13W	Yes
Silver Lake Water System	24DL691	21, 22, 23, 26, 27, 35	5N	13W	Yes

If a project is forwarded from the improvement option(s), a cultural resource survey for unrecorded historic properties within the Area of Potential Effect will need to be completed during the project development process. Flexibility in design will be key to avoiding and/or minimizing impact to significant sites in the Study corridor.

## 7 Social

To provide a context in which to evaluate social impacts, characteristics of the existing population are presented in Table 6 and Table 7.

**Table 6: Demographic Information**

Area	Population (2009 Estimate)	Population % Change (2000 thru 2009)	Median Household Income (2008)	Persons Below Poverty (2007)	Persons per Square Mile (2000)
Deer Lodge County	8,792	(-6.3%)	\$34,126	17.5%	12.8
State of Montana	974,989	8.1%	\$43,948	14.1%	6.2
USA	307,006,550	9.1%	\$52,029	13.0%	79.6

As shown in the table, generally the study area population has declined overall since 2000. Residents in the study area tend to be lower in median household income compared to Montana as a whole. These differences can be generally attributed to the rural nature and relatively low population of the area.

**Table 7: Population Data**

	Deer Lodge County	State of MT	USA
Total Population <sup>a</sup>	8,792	974,989	307,006,550
White <sup>b</sup> (%)	95.0	90.3	79.6
African American <sup>b</sup> (%)	0.4	0.7	12.9
American Indian/Alaska Native <sup>b</sup> (%)	2.3	6.4	1.0
Asian <sup>b</sup> (%)	0.5	0.7	4.6
Native Hawaiian/Pacific Islander <sup>b</sup> (%)	0.0	0.1	0.2
Hispanic/Latino <sup>b</sup> (%)	2.5	3.1	15.8
2 or more races <sup>b</sup> (%)	1.9	1.8	1.7

Source: US Census Bureau

a. 2009 Estimate

b. 2009 Data in Percent (%)

In general the ethnic makeup of the project area is primarily white, which is consistent with the state as a whole.

### 7.1 Environmental Justice

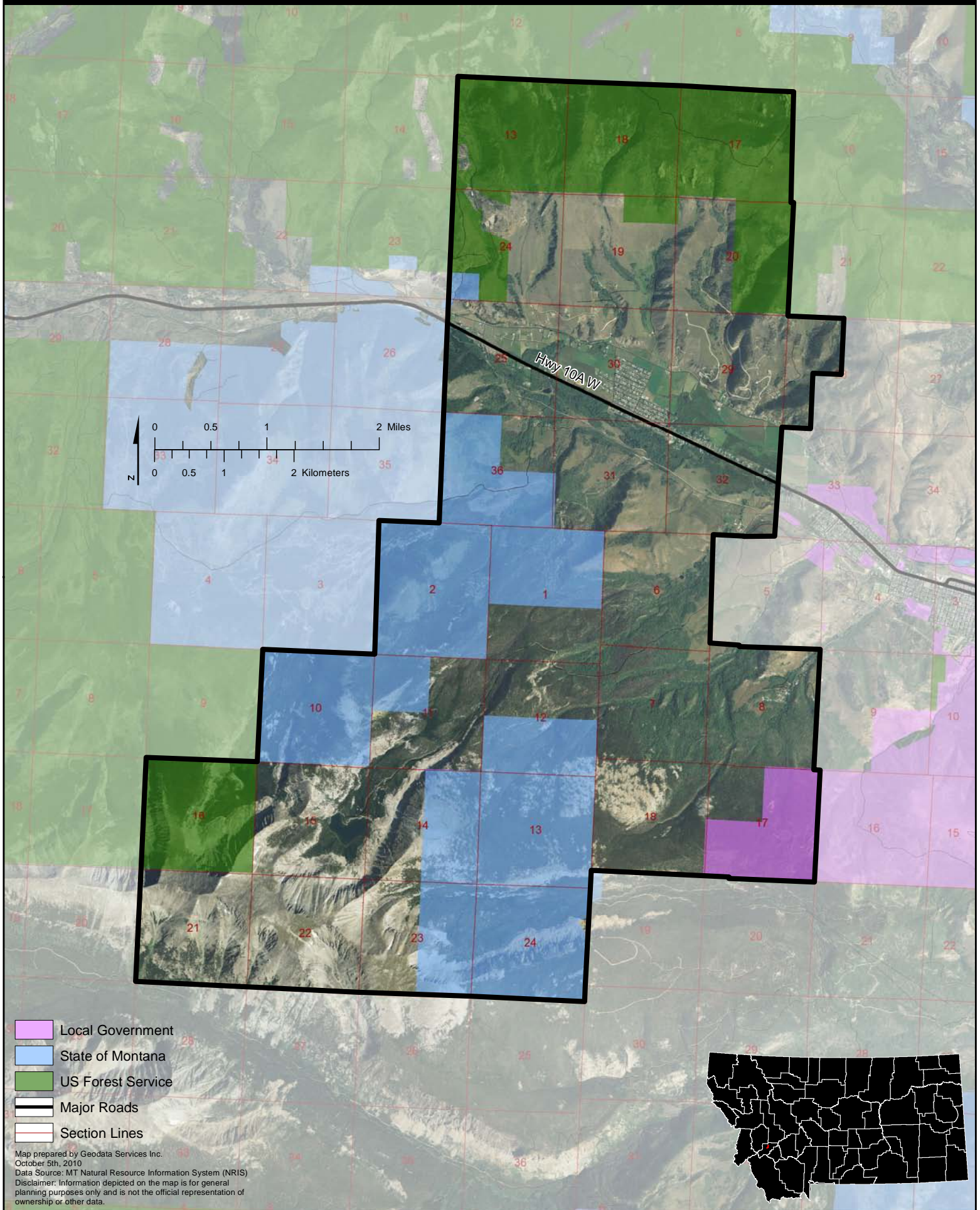
Title VI of the US Civil Rights Act of 1964, as amended (USC 2000(d)) and Executive Order (EO) 12898 require that no minority, or, by extension, low-income person shall be disproportionately adversely impacted by any project receiving federal funds. For transportation projects, this means that no particular minority or low-income person may be disproportionately isolated, displaced, or otherwise subjected to adverse effects.

If a project is forwarded from the improvement option(s), Environmental Justice will need to be further evaluated during the project development process.

## Appendix A: Public Land Ownership Maps

# ANACONDA-DEER LODGE COUNTY

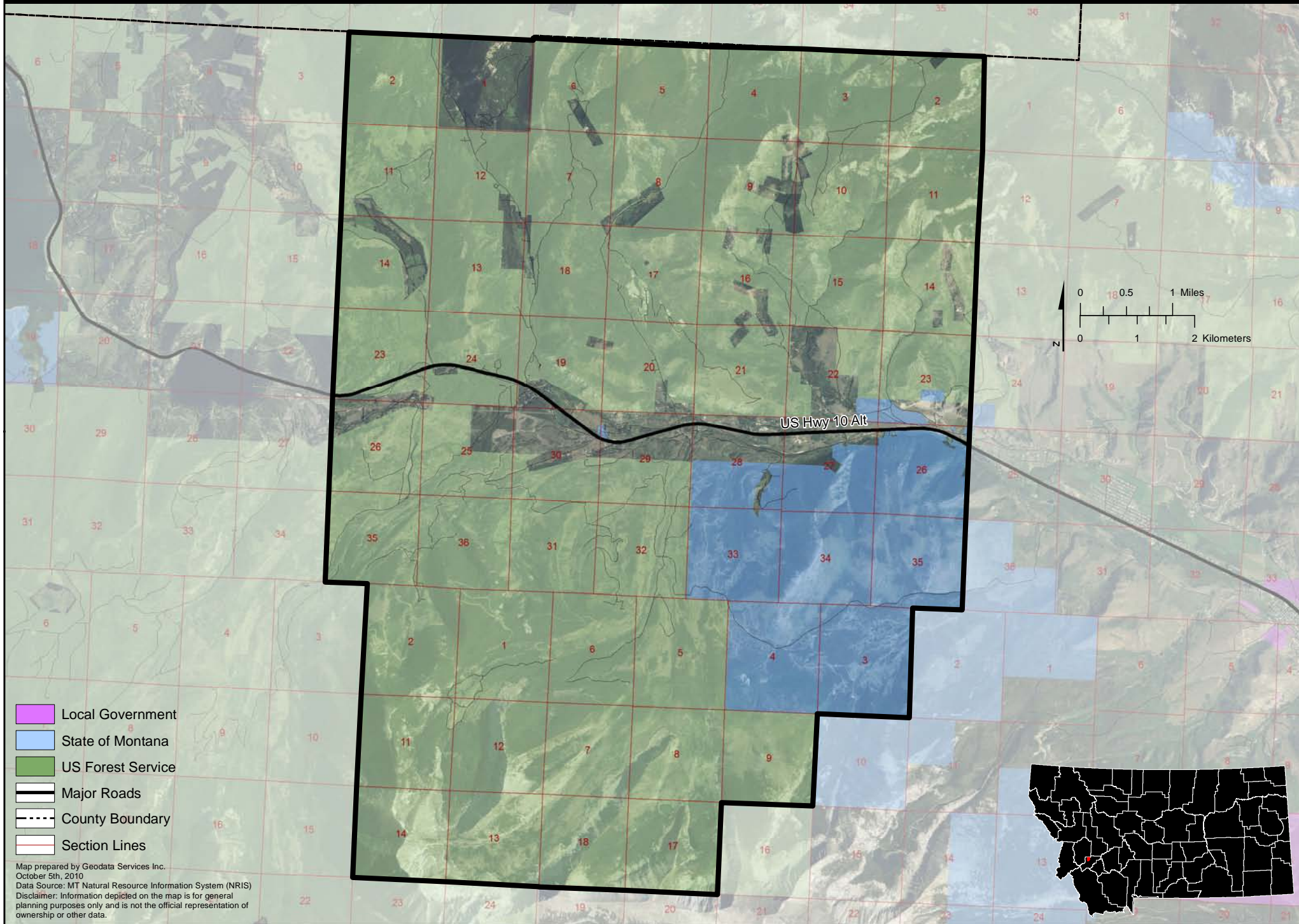
## WEST VALLEY PLANNING AREA





# ANACONDA-DEER LODGE COUNTY

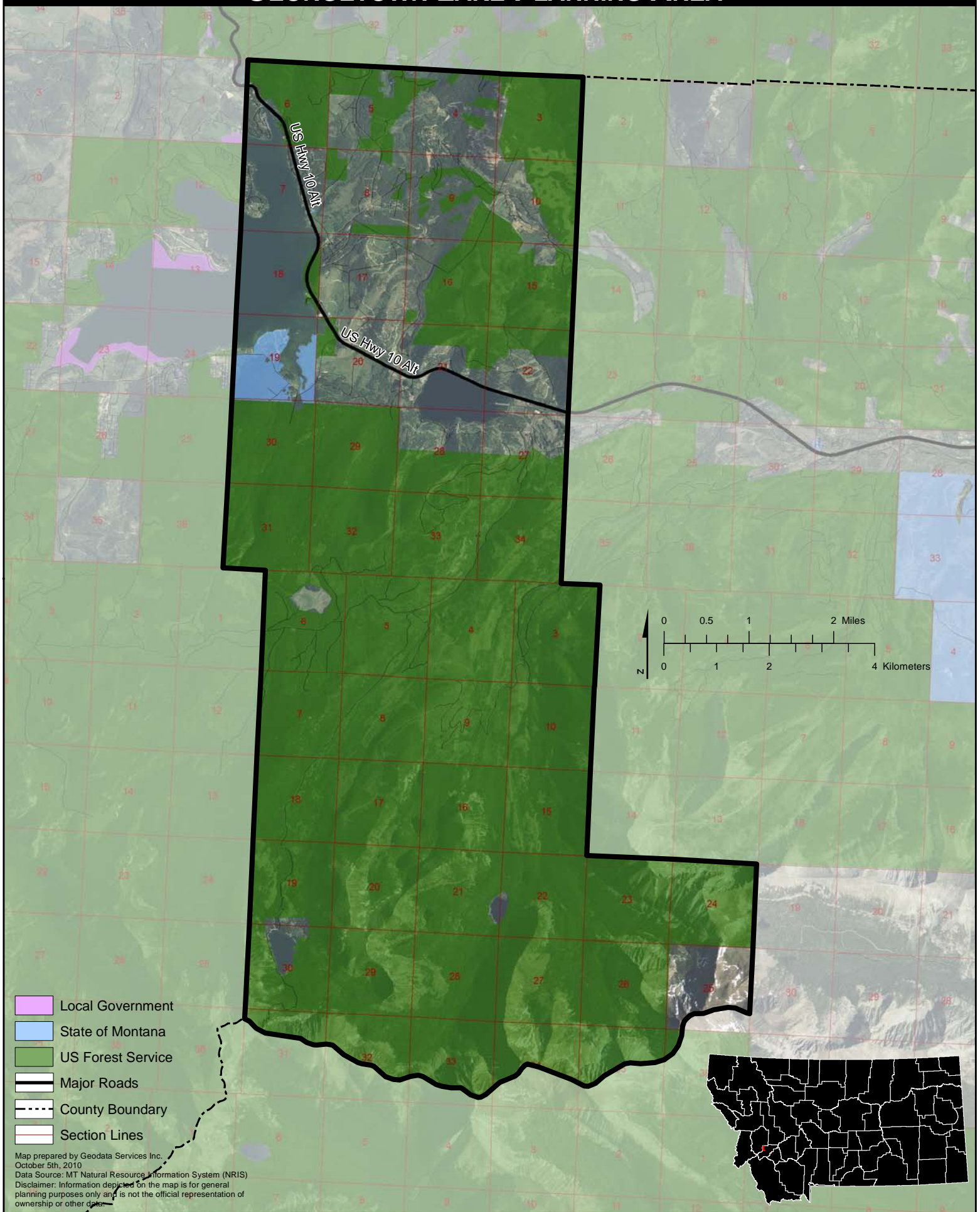
## SPRING HILL PLANNING AREA





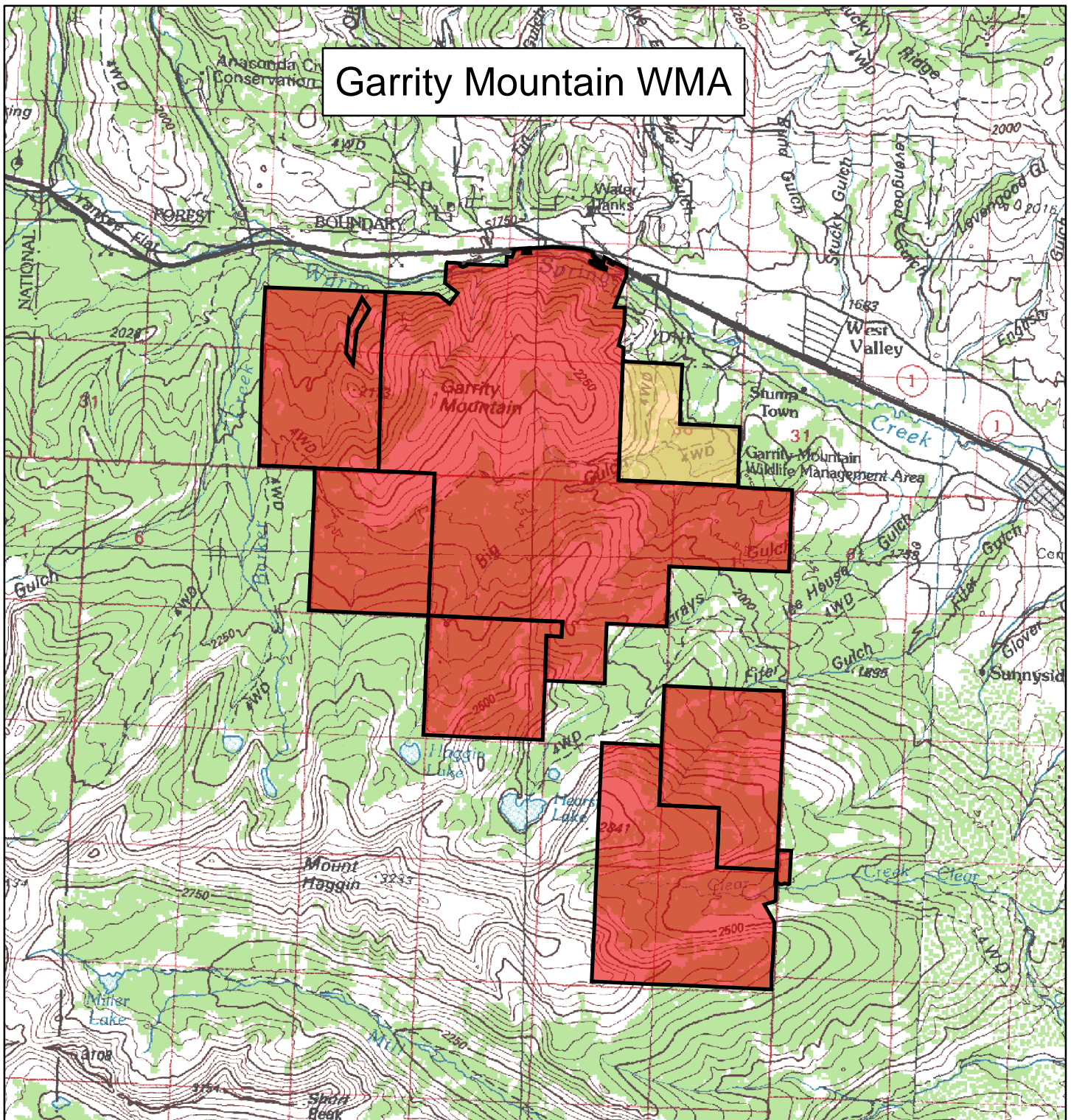
# ANACONDA-DEER LODGE COUNTY

## GEORGETOWN LAKE PLANNING AREA





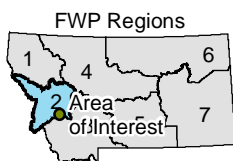
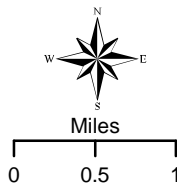
# Garrity Mountain WMA



- Fee Simple  
8,999 Acres
- Agreement, Lease, or Easement  
475 Acres
- Conservation Easement  
0 Acres



**Montana Fish,  
Wildlife & Parks**



Map produced by:

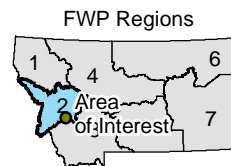
Information Management Bureau  
Montana Fish, Wildlife & Parks  
1420 East 6th Ave  
Helena, MT 59620-0701

W:\IS\_Requests\06\2546\_WMA\_Plan\AVisitSiteMaps  
V2135.mxd - CG - 11/08/2006

Lands data from Montana Fish, Wildlife & Parks.  
Digital Raster Graphics from the Natural Resource  
Information System, Montana State Library, Helena, MT.



- 



Information Management Bureau  
Montana Fish, Wildlife & Parks  
1420 East 6th Ave  
Helena, MT 59620-0701

Lands data from Montana Fish, Wildlife & Parks.  
Digital Raster Graphics from the Natural Resource  
Information System, Montana State Library, Helena, MT.




Appendix B:  
Maps and descriptions of the farmland classification types

Topographic map of the Warm Springs Creek area in Montana. The map shows contour lines, water features (Warm Springs Creek, Anaconda), and a grid of section numbers. The map is framed by coordinates: 113° 4' 21" to 112° 57' 8" longitude and 46° 10' 47" to 46° 7' 34" latitude. A scale bar indicates distances in feet (0 to 12,000) and meters (0 to 3,000). A north arrow is present in the bottom left corner.

Farmland Classification—Deer Lodge County Area, Montana  
(MT 1 - Anaconda to Georgetown Lake)

## MAP LEGEND









### Area of Interest (AOI)








 Area of Interest (AOI)

### Soils

 Soil Map Units

### Soil Ratings



-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available

### Political Features



 Cities

### Water Features

-  Oceans
-  Streams and Canals

### Transportation

-  Rails
-  Interstate Highways

-  US Routes
-  Major Roads

## MAP INFORMATION

Map Scale: 1:44,300 if printed on A size (8.5" × 11") sheet.

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

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

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: UTM Zone 12N NAD83

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

Soil Survey Area: Deer Lodge County Area, Montana  
Survey Area Data: Version 10, Feb 1, 2010

Date(s) aerial images were photographed: 9/2/1995; 9/1/1995


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.



Farmland Classification–Deer Lodge County Area, Montana  
(MT 1 - Anaconda to Georgetown Lake)

## MAP LEGEND









### Area of Interest (AOI)








 Area of Interest (AOI)

### Soils

 Soil Map Units

### Soil Ratings



-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
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-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of local importance
-  Farmland of unique importance
-  Not rated or not available


### Political Features



 Cities

### Water Features

-  Oceans
-  Streams and Canals

### Transportation

-  Rails
-  Interstate Highways

-  US Routes
-  Major Roads

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## Farmland Classification

Farmland Classification— Summary by Map Unit — Deer Lodge County Area, Montana				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
2A	Dougcliff mucky peat, 0 to 2 percent slopes	Not prime farmland	91.6	1.2%
24B	Con loam, 0 to 4 percent slopes	Prime farmland if irrigated	168.3	2.3%
24C	Con loam, 4 to 8 percent slopes	Farmland of statewide importance	116.7	1.6%
25B	Staad silty clay loam, 0 to 4 percent slopes	All areas are prime farmland	11.1	0.1%
25D	Staad silty clay loam, 8 to 15 percent slopes	Not prime farmland	48.0	0.6%
35B	Anaconda sandy loam, 0 to 4 percent slopes	Prime farmland if irrigated	13.4	0.2%
41C	Perma gravelly loam, 4 to 8 percent slopes	Not prime farmland	12.9	0.2%
41D	Perma gravelly loam, 8 to 15 percent slopes	Not prime farmland	35.6	0.5%
50C	Monad loam, 2 to 8 percent slopes	Not prime farmland	8.5	0.1%
50D	Monad loam, 8 to 15 percent slopes	Not prime farmland	40.6	0.5%
51C	Shawmut gravelly loam, 4 to 8 percent slopes	Not prime farmland	263.8	3.5%
51D	Shawmut gravelly loam, 8 to 15 percent slopes	Not prime farmland	378.8	5.1%
52C	Martinsdale loam, 4 to 8 percent slopes	Farmland of statewide importance	65.8	0.9%
52D	Martinsdale loam, 8 to 15 percent slopes	Not prime farmland	161.8	2.2%
54D	Libeg gravelly loam, 8 to 15 percent slopes	Not prime farmland	52.0	0.7%
54E	Libeg gravelly loam, 15 to 35 percent slopes	Not prime farmland	437.5	5.9%
54F	Libeg gravelly loam, 35 to 60 percent slopes	Not prime farmland	228.1	3.1%
59D	Tewfel-Hackney complex, 4 to 15 percent slopes	Not prime farmland	41.9	0.6%
59E	Tewfel-Hackney complex, 15 to 35 percent slopes	Not prime farmland	244.3	3.3%
60C	Quigley loam, 4 to 8 percent slopes	Farmland of statewide importance	62.5	0.8%
75E	Hanson gravelly loam, 15 to 35 percent slopes	Not prime farmland	38.5	0.5%
76D	Tibson gravelly loam, 8 to 15 percent slopes	Not prime farmland	110.5	1.5%
82D	Elve gravelly loam, 4 to 15 percent slopes	Not prime farmland	370.6	5.0%

Farmland Classification— Summary by Map Unit — Deer Lodge County Area, Montana				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
82E	Elve gravelly loam, 15 to 35 percent slopes	Not prime farmland	80.1	1.1%
82F	Elve gravelly loam, 35 to 60 percent slopes	Not prime farmland	151.2	2.0%
82G	Elve gravelly loam, 60 to 80 percent slopes	Not prime farmland	16.5	0.2%
92F	Whitore gravelly loam, 35 to 60 percent slopes	Not prime farmland	13.6	0.2%
95E	Yreka gravelly loam, 15 to 35 percent slopes	Not prime farmland	88.8	1.2%
95F	Yreka gravelly loam, 35 to 60 percent slopes	Not prime farmland	94.1	1.3%
96E	Worock gravelly loam, 15 to 35 percent slopes	Not prime farmland	23.2	0.3%
96F	Worock gravelly loam, 35 to 60 percent slopes	Not prime farmland	128.1	1.7%
98F	Trapps gravelly loam, 35 to 60 percent slopes	Not prime farmland	102.3	1.4%
110A	Carten-Wetsand complex, 0 to 2 percent slopes	Not prime farmland	64.0	0.9%
129E	Wimper-Winspect complex, 15 to 35 percent slopes	Not prime farmland	28.3	0.4%
134C	Cetrack loam, 4 to 8 percent slopes, severely impacted	Not prime farmland	55.2	0.7%
137B	Sixbeacon cobbly loam, 0 to 4 percent slopes	Not prime farmland	38.9	0.5%
151D	Shawmut cobbly loam, 8 to 15 percent slopes	Not prime farmland	34.0	0.5%
151E	Shawmut cobbly loam, 15 to 35 percent slopes	Not prime farmland	227.9	3.1%
151F	Shawmut cobbly loam, 35 to 60 percent slopes	Not prime farmland	151.5	2.0%
185E	Relyea-Helmville complex, 15 to 35 percent slopes	Not prime farmland	5.7	0.1%
195E	Yreka gravelly loam, cool, 15 to 35 percent slopes	Not prime farmland	33.2	0.4%
232B	Beaverell cobbly loam, 1 to 4 percent slopes, severely impacted	Not prime farmland	105.4	1.4%
237B	Sixbeacon gravelly loam, 0 to 4 percent slopes	Not prime farmland	243.3	3.3%
237C	Sixbeacon gravelly loam, 4 to 8 percent slopes	Not prime farmland	62.9	0.8%
242D	Braziel gravelly loam, 8 to 15 percent slopes	Not prime farmland	29.3	0.4%
251D	Shawmut stony loam, 0 to 15 percent slopes	Not prime farmland	36.1	0.5%
254E	Libeg stony loam, 15 to 35 percent slopes	Not prime farmland	13.7	0.2%

Farmland Classification— Summary by Map Unit — Deer Lodge County Area, Montana				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
275F	Hanson stony loam, 35 to 60 percent slopes	Not prime farmland	0.4	0.0%
338C	Perma cobbly loam, 4 to 8 percent slopes	Not prime farmland	76.2	1.0%
351E	Roy-Shawmut-Danvers complex, 15 to 35 percent slopes	Not prime farmland	62.2	0.8%
437E	Adel-Mooseflat complex, 8 to 35 percent slopes	Not prime farmland	98.7	1.3%
544B	Gregson loam, 0 to 4 percent slopes	Prime farmland if irrigated	74.8	1.0%
545B	Saypo loam, 0 to 4 percent slopes	Prime farmland if irrigated	58.7	0.8%
557B	Kleinschmidt gravelly loam, 0 to 4 percent slopes	Prime farmland if irrigated	130.7	1.8%
576B	Finn gravelly loam, dry, 0 to 4 percent slopes	Not prime farmland	18.9	0.3%
599D	Silverchief-Trapps complex, 8 to 15 percent slopes	Not prime farmland	149.8	2.0%
634B	Blossberg loam, 0 to 4 percent slopes	Not prime farmland	36.6	0.5%
637B	Poronto loam, 0 to 4 percent slopes	Not prime farmland	11.7	0.2%
649B	Turrah silty clay loam, 0 to 4 percent slopes	Not prime farmland	33.4	0.4%
686A	Dougcliff mucky peat, loamy substratum, 0 to 2 percent slopes	Not prime farmland	167.5	2.3%
735B	Tetonview-Blossberg loams, 0 to 4 percent slopes, rarely flooded	Not prime farmland	23.0	0.3%
751C	Shawmut gravelly loam, 4 to 8 percent slopes, moderately impacted	Not prime farmland	40.3	0.5%
751D	Shawmut gravelly loam, 8 to 15 percent slopes, moderately impacted	Not prime farmland	21.3	0.3%
751E	Shawmut gravelly loam, 15 to 35 percent slopes, moderately impacted	Not prime farmland	170.5	2.3%
753E	Redchief-Copenhaver gravelly loams, 15 to 35 percent slopes, moderately impacted	Not prime farmland	116.2	1.6%
758F	Mishakal-Tolbert complex, 35 to 60 percent slopes, moderately impacted	Not prime farmland	198.8	2.7%
774F	Wilspring-Tolbert complex, 35 to 60 percent slopes	Not prime farmland	10.7	0.1%
837B	Poronto loam, 0 to 4 percent slopes, rarely flooded	Not prime farmland	71.6	1.0%
839F	Windham-Lap-Rock outcrop complex, 35 to 60 percent slopes	Not prime farmland	3.4	0.0%
855A	Mannixlee-Blossberg complex, 0 to 2 percent slopes	Not prime farmland	173.5	2.3%

Farmland Classification— Summary by Map Unit — Deer Lodge County Area, Montana				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
888E	Caramon ashy loam, 15 to 35 percent slopes, moderately impacted	Not prime farmland	3.4	0.0%
933E	Burrfoot-Nivean complex, 15 to 35 percent slopes, moderately impacted	Not prime farmland	118.5	1.6%
946E	Roy-Tolbert-Rock outcrop complex, 15 to 35 percent slopes, moderately impacted	Not prime farmland	112.7	1.5%
946F	Roy-Tolbert-Rock outcrop complex, 35 to 60 percent slopes, moderately impacted	Not prime farmland	50.1	0.7%
954E	Libeg-Copenhaver-Rock outcrop complex, 15 to 35 percent slopes	Not prime farmland	17.6	0.2%
954F	Libeg-Copenhaver-Rock outcrop complex, 35 to 60 percent slopes	Not prime farmland	92.9	1.2%
958F	Mishakal loam, 35 to 60 percent slopes	Not prime farmland	83.3	1.1%
982E	Elve-Rock outcrop complex, 15 to 35 percent slopes	Not prime farmland	96.2	1.3%
982F	Elve-Rock outcrop complex, 35 to 60 percent slopes	Not prime farmland	202.5	2.7%
988F	Whitcow-Rock outcrop complex, 35 to 60 percent slopes	Not prime farmland	19.8	0.3%
992G	Whitore-Rock outcrop complex, 60 to 80 percent slopes	Not prime farmland	16.4	0.2%
1954F	Libeg-Copenhaver-Rock outcrop complex, 35 to 60 percent slopes, moderately impacted	Not prime farmland	49.3	0.7%
5023F	Worock-Elve-Libeg complex, 35 to 60 percent slopes	Not prime farmland	0.1	0.0%
<b>Totals for Area of Interest</b>			<b>7,441.6</b>	<b>100.0%</b>

## Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

## Rating Options

*Aggregation Method:* No Aggregation Necessary

*Tie-break Rule:* Lower

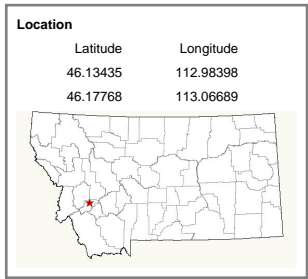


## Appendix C: Wildlife

## Appendix C: Wildlife

# Natural Heritage Tracker

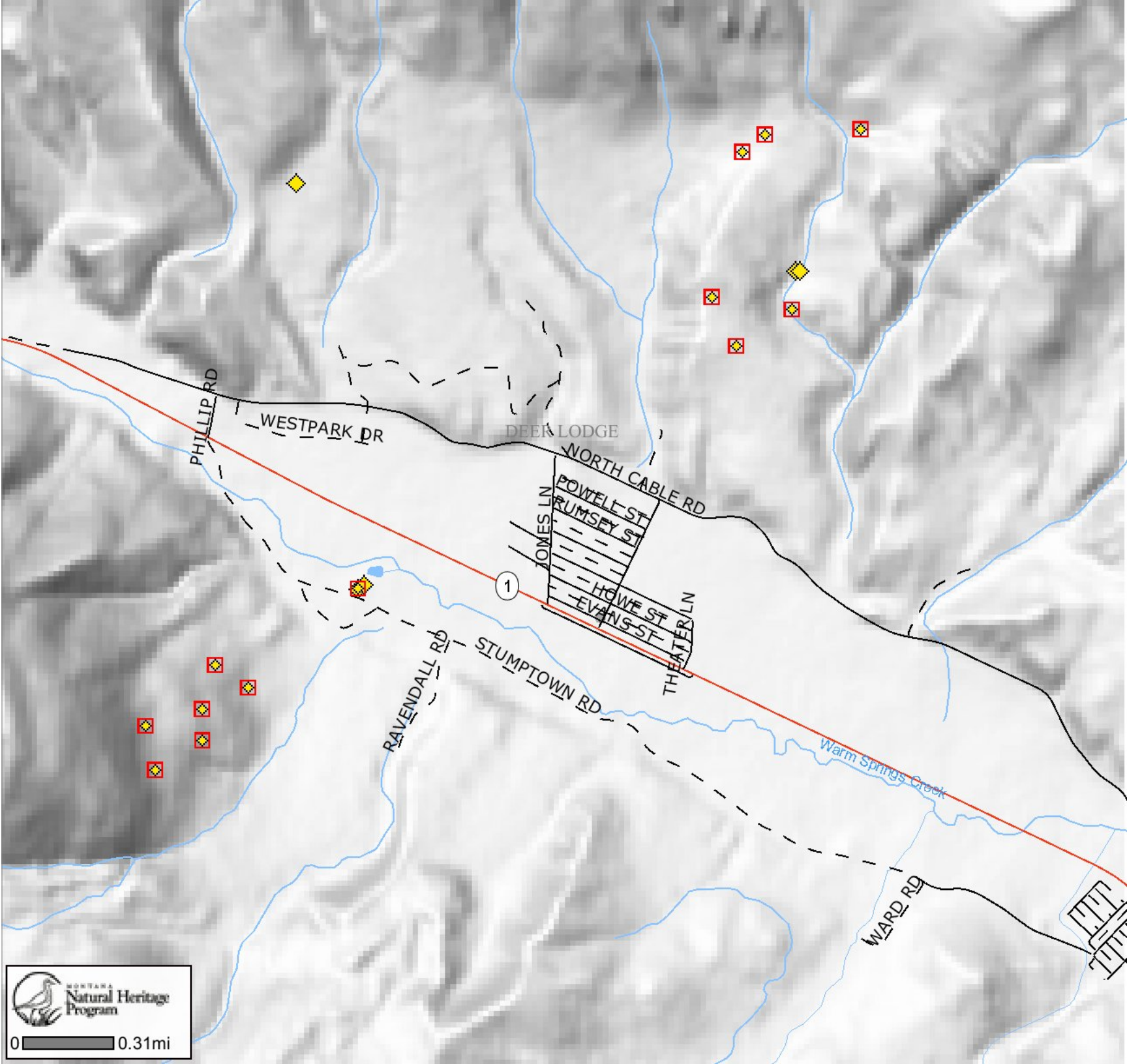
(All Birds)



**Point Observations**

- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens

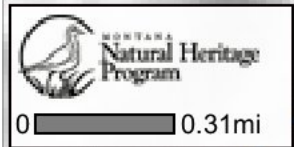
**Outlined symbols are "pending records"**



**DISCLAIMER:**  
This document was generated from the online Tracker and is intended for information and general planning purposes rather than regulatory decision-making.

The Species Occurrence and Observation databases are a statewide inventory of KNOWN locations and conditions of sensitive species. Parts of the state have not yet been inventoried, thus an "absence of evidence is not evidence of absence." Nor does the presence of one species imply that other species were surveyed for but not found.

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION			Spatial Precision (Meters)	TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLLL	COUNTY	Comments				
Birds												
Birds	51231343	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231350	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231359	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 3  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231365	Warbling Vireo (Vireo gilvus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231369	Western Tanager (Piranga ludoviciana)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231376	Vesper Sparrow (Poocetes gramineus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB							Eggs:  Pairs:  Nest:	
Birds	51231336	Red-tailed Hawk (Buteo jamaicensis)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231341	Orange-crowned Warbler (Oreothlypis celata)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231344	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231347	Western Tanager (Piranga ludoviciana)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231349	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231360	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231363	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231366	Warbling Vireo (Vireo gilvus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231371	Lazuli Bunting (Passerina amoena)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231380	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231339	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231342	Orange-crowned Warbler (Oreothlypis celata)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231348	Vesper Sparrow (Pooecetes gramineus)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231351	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231352	Pine Siskin (Spinus pinus)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231367	Warbling Vireo (Vireo gilvus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231372	Lazuli Bunting (Passerina amoena)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231375	Lazuli Bunting (Passerina amoena)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. scolding  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231377	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231379	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. bell like  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231337	Red-tailed Hawk (Buteo jamaicensis)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231338	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231340	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231345	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231346	MacGillivray's Warbler (Oporornis tolmiei)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231361	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231362	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231364	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 3  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231368	Warbling Vireo (Vireo gilvus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231370	Western Tanager (Piranga ludoviciana)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231373	Lazuli Bunting (Passerina amoena)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231374	Lazuli Bunting (Passerina amoena)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. definitely a second one  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231378	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231381	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51153947	Brown-headed Cowbird (Molothrus ater)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex:  Juveniles:  Males:  Immature:  Females: 1  Eggs:  Pairs:  Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female Habitat Observation Notes: ASPEN								
Birds	51153948	Dusky Flycatcher (Empidonax oberholseri)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153949	Ruby-crowned Kinglet (Regulus calendula)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153950	Ruffed Grouse (Bonasa umbellus)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153951	Yellow-rumped Warbler (Dendroica coronata)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51153952	Warbling Vireo (Vireo gilvus)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Unknown sex Habitat Observation Notes: ASPEN							Nest:	
Birds	51153953	Black-capped Chickadee (Poecile atricapillus)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153954	Dusky Flycatcher (Empidonax oberholseri)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153955	Olive-sided Flycatcher (Contopus cooperi)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153956	Red-breasted Nuthatch (Sitta canadensis)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153957	Yellow-rumped Warbler (Dendroica coronata)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Male Habitat Observation Notes: ASPEN								Nest:
Birds	51153958	Yellow-rumped Warbler (Dendroica coronata)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153959	Warbling Vireo (Vireo gilvus)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231622	Mourning Dove (Zenaida macroura)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231628	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231634	Black-capped Chickadee (Poecile atricapillus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. 2 syllable song  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231619	Dusky Grouse (Dendragapus obscurus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231637	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231650	Vesper Sparrow (Pooecetes gramineus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231663	Pine Siskin (Spinus pinus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231625	Hairy Woodpecker (Picoides villosus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231636	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231641	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231649	Lazuli Bunting (Passerina amoena)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231653	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155038	American Robin (Turdus migratorius)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Unknown sex Habitat Observation Notes: RIPARIAN_POOR								Nest:
Birds	51155039	Black-capped Chickadee (Poecile atricapillus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 4 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155040	Red-breasted Nuthatch (Sitta canadensis)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155041	Red-naped Sapsucker (Sphyrapicus nuchalis)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155042	Vesper Sparrow (Poocetes gramineus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155043	Warbling Vireo (Vireo gilvus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Unknown sex Habitat Observation Notes: RIPARIAN_POOR							Nest:	
Birds	51154981	American Robin (Turdus migratorius)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154982	Black-capped Chickadee (Poecile atricapillus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154983	Dusky Flycatcher (Empidonax oberholseri)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154984	Lazuli Bunting (Passerina amoena)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154985	Red-breasted Nuthatch (Sitta canadensis)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Unknown sex Habitat Observation Notes: RIPARIAN_POOR								Nest:
Birds	51154986	Vesper Sparrow (Poocetes gramineus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154987	Warbling Vireo (Vireo gilvus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154988	White-crowned Sparrow (Zonotrichia leucophrys)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154989	American Robin (Turdus migratorius)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154990	Brown-headed Cowbird (Molothrus ater)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Male Habitat Observation Notes: RIPARIAN_POOR								Nest:
Birds	51154991	Dusky Flycatcher (Empidonax oberholseri)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154992	Lazuli Bunting (Passerina amoena)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154993	Mountain Chickadee (Poecile gambeli)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154994	Northern Flicker (Colaptes auratus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154995	Red-breasted Nuthatch (Sitta canadensis)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Habitat Observation Notes: RIPARIAN_POOR								Nest:
Birds	51154996	Red-naped Sapsucker (Sphyrapicus nuchalis)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154997	Dark-eyed Junco (Junco hyemalis)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154998	Yellow-rumped Warbler (Dendroica coronata)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154999	Warbling Vireo (Vireo gilvus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155000	Western Wood-Pewee (Contopus sordidulus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Unknown sex Habitat Observation Notes: RIPARIAN_POOR								Nest:
Birds	51154972	American Robin (Turdus migratorius)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154973	Chipping Sparrow (Spizella passerina)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154974	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154975	Common Raven (Corvus corax)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154976	Dusky Flycatcher (Empidonax oberholseri)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Unknown sex Habitat Observation Notes: HARDWOOD_DRAW								Nest:
Birds	51154 977	Mountain Chickadee (Poecile gambeli)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154 978	Red-breasted Nuthatch (Sitta canadensis)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154 979	Vesper Sparrow (Pooecetes gramineus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51154 980	Warbling Vireo (Vireo gilvus)	Kohler, Nate	Jul 04, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155 301	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Kohler, Nate	Jul 05, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Unknown sex Habitat Observation Notes: GRASSLANDS								Nest:
Birds	51155 302	Vesper Sparrow (Poocetes gramineus)	Kohler, Nate	Jul 05, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155 297	Northern Flicker (Colaptes auratus)	Kohler, Nate	Jul 05, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155 298	Red-breasted Nuthatch (Sitta canadensis)	Kohler, Nate	Jul 05, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155 299	Vesper Sparrow (Poocetes gramineus)	Kohler, Nate	Jul 05, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51155 300	Warbling Vireo (Vireo gilvus)	Kohler, Nate	Jul 05, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Unknown sex Habitat Observation Notes: GRASSLANDS								Nest:
Birds	51153747	Red-tailed Hawk (Buteo jamaicensis)	Leary, Abby and Kobayashi, Crystal	Jul 25, 2009		26D4	Deer Lodge		20	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: 1 flying								
Birds	51153746	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Leary, Abby and Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge		20	t		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: 2 roosting in tree								
Birds	50682787	Western Screech-Owl (Megascops kennicottii) Potential Species of Concern	Kohler, Nathan	Mar 23, 2007		26D4	Deer Lodge	50 yards north of Stumptown road, near Meyer's dam.	50	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: One bird resting in a juniper. One bird also responded to a recording the following evening in the same location. Habitat Observation Notes: Aspen with juniper, lodgepole pine, and doug. fir.								
Birds	50741053	Western Screech-Owl (Megascops kennicottii) Potential Species of Concern	Swant, Gary	Mar 24, 2007		26D4	Deer Lodge	Stumpton Road, east of Anaconda	100	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Heard calls after dark of one bird, and saw silhouette in flight Habitat Observation Notes: Dense Juniper/Lodgepole stand								
Birds	50741061	Northern Saw-whet Owl (Aegolius acadicus)	Swant, Gary	Mar 24, 2007		26D4	Deer Lodge	Stumpton Road, east of Anaconda	100	b	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Found in Juniper tree on a branch mid-day Habitat Observation Notes: Dense Juniper/Lodgepole stand								Nest:
Birds	50042286	American Pipit (Anthus rubescens)	Eakin, Kirk	Sep 08, 1992		26D4	Deer Lodge	Pasture area off of MT 1 near Brown	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

Natural Heritage Tracker

(All Reptiles or All Amphibians or All Fish or All Invertebrates)



Point Observations

- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens

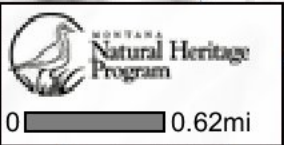
Outlined symbols are "pending records"



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The Species Occurrence and Observation databases are a statewide inventory of KNOWN locations and conditions of sensitive species. Parts of the state have not yet been inventoried, thus an "absence of evidence is not evidence of absence." Nor does the presence of one species imply that other species were surveyed for but not found.

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# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
Amphibians												
Amphibians	10806429	Columbia Spotted Frog ( <i>Rana luteiventris</i> )	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge		20			Unknown Sex: 1
				Species Observation Notes: 1sitting in mud puddle on road								
Amphibians	10806423	Long-toed Salamander ( <i>Ambystoma macrodactylum</i> )	Leary, Abby and Kobayashi, Crystal	Aug 04, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:
				Habitat Observation Notes: Large pond on Garrity WMA. Elevation: 6780. Lake_Pond								



# Natural Heritage Tracker

(All Mammals)

## Location

Latitude	Longitude
46.11674	112.93487
46.20338	113.10069



## Point Observations

- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens

Outlined symbols are "pending records"

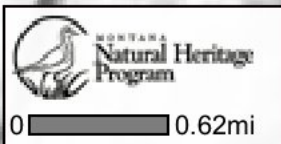
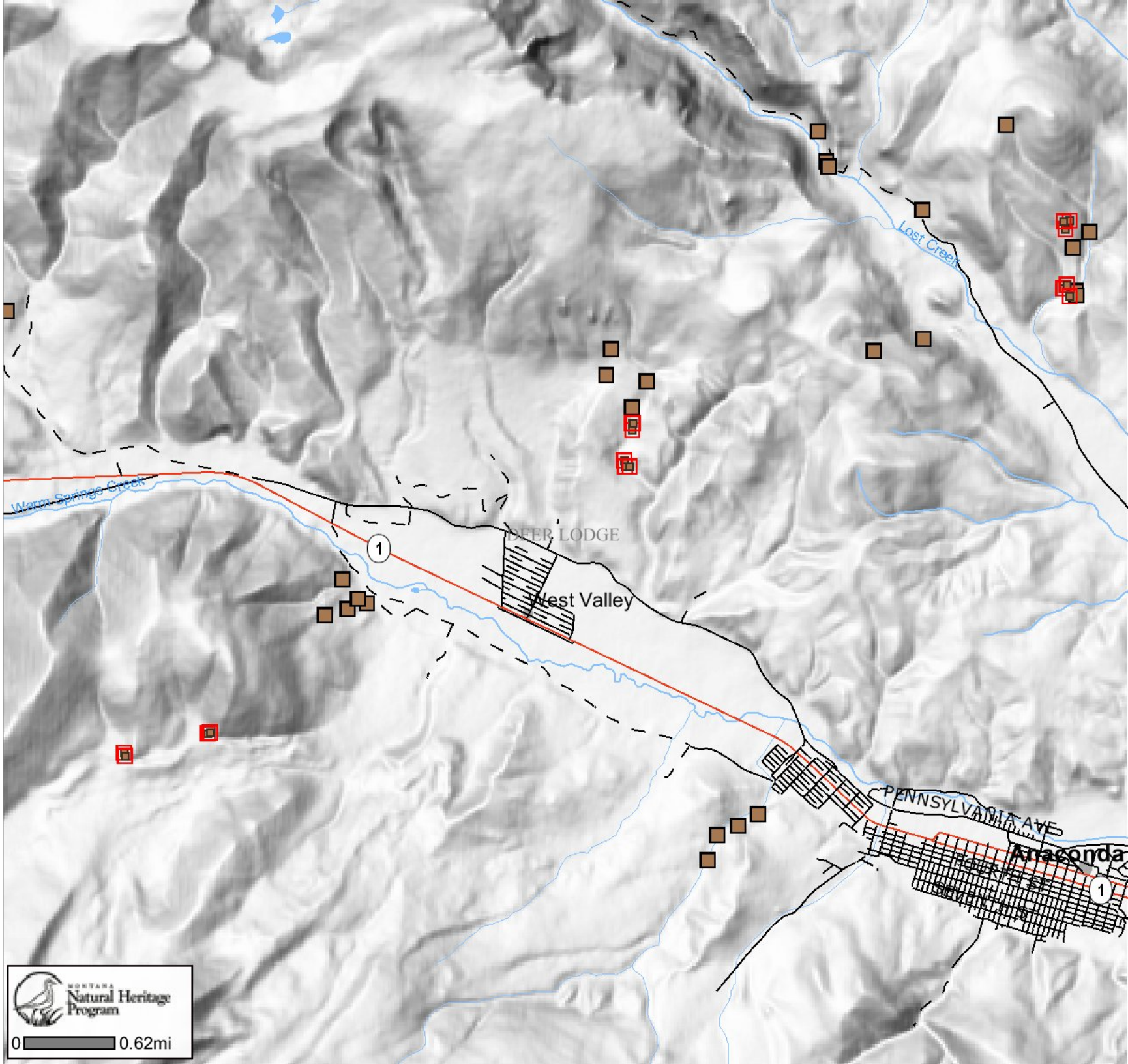
DISCLAIMER:  
This document was generated from the online Tracker and is intended for information and general planning purposes rather than regulatory decision-making.

The Species Occurrence and Observation databases are a statewide inventory of KNOWN locations and conditions of sensitive species. Parts of the state have not yet been inventoried, thus an "absence of evidence is not evidence of absence." Nor does the presence of one species imply that other species were surveyed for but not found.

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# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
Mammals												
Mammals	10813258	Northern Pocket Gopher (Thomomys talpoides)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Male Scrotal Habitat Observation Notes: Sagebrush								
Mammals	10813217	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female Pregnant								
Mammals	10813219	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Male Scrotal Habitat Observation Notes: Sagebrush								
Mammals	10813229	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female								
Mammals	10813230	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Male Scrotal								
Mammals	10813237	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: 1 Males: 1 Immature: Females:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Juv Male Total Length=130 Habitat Observation Notes: Sage/Grassland								Eggs: Pairs: Nest:
Mammals	10813238	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813239	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813240	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813256	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813257	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Male    Total Length=140 Habitat Observation Notes: Sagebrush							Nest:	
Mammals	10813259	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813261	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813262	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813375	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813377	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Female								Nest:
Mammals	10813260	Montane Vole (Microtus montanus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813376	Montane Vole (Microtus montanus)	Leary, Abby	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813218	Montane Vole (Microtus montanus)	Kobayashi, Crystal	Jul 21, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813246	Montane Vole (Microtus montanus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813382	Montane Vole (Microtus montanus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female Total Length=144 Habitat Observation Notes: Sagebrush								Nest:
Mammals	10813266	Montane Vole (Microtus montanus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813275	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813378	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813379	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813380	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Adult Male Scrotal Total Length=154 Habitat Observation Notes: Sagebrush							Nest:	
Mammals	10813381	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813263	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813264	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813265	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813267	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female								Nest:
Mammals	10813268	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813241	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813242	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813243	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813244	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Male Total Length=144 Habitat Observation Notes: Sagebrush								Nest:
Mammals	10813245	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813231	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813232	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813233	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813220	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female							Nest:	
Mammals	10813221	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: 1  Juveniles: 1 Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Juv Male? Total Length=130 Habitat Observation Notes: Sagebrush								
Mammals	10813222	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female Pregnant								
Mammals	10813223	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 22, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female Pregnant								
Mammals	10813224	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female Total Length=159 Habitat Observation Notes: Sagebrush								
Mammals	10813225	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Male Total Length=154 Habitat Observation Notes: Sagebrush								Nest:
Mammals	10813226	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813227	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813228	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813234	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813235	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: 1 Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Juv Male Total Length=123 Habitat Observation Notes: Sagebrush								Nest:
Mammals	10813236	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813247	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813248	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813249	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813250	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Adult Female Pregnant Total Length=171 Habitat Observation Notes: Sagebrush							Nest:	
Mammals	10813253	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813254	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813255	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813269	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813270	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female Total Length=160 Habitat Observation Notes: Sagebrush								Nest:
Mammals	10813 271	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813 272	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813 273	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813 274	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813 384	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Male Total Length=155 Habitat Observation Notes: Sagebrush								Nest:
Mammals	10813385	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813386	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813251	Masked Shrew (Sorex cinereus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813276	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813277	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Adult Male Scrotal Total Length=156 Habitat Observation Notes: Sagebrush							Nest:	
Mammals	10813278	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813279	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813383	Montane Vole (Microtus montanus)	Leary, Abby	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813252	Montane Vole (Microtus montanus)	Kobayashi, Crystal	Jul 23, 2009		27C3	Deer Lodge	Lost Creek WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813392	Long-tailed Vole (Microtus longicaudus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female Total Length=134 Habitat Observation Notes: Decid Shrub								Nest:
Mammals	10813337	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813338	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813393	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813399	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813397	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female							Nest:	
Mammals	10813387	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813388	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813395	Golden-mantled Ground Squirrel (Spermophilus lateralis)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813396	Golden-mantled Ground Squirrel (Spermophilus lateralis)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10611771	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Fifer Gulch, Site 728_B1	100			Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: 3 call sequences definitively identified using Sonobat 3.0. Habitat Observation Notes: Herbaceous wetland								Nest:
Mammals	10611774	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Fifer Gulch, Site 728_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611773	Little Brown Myotis (Myotis lucifugus)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611776	Little Brown Myotis (Myotis lucifugus)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611781	Little Brown Myotis (Myotis lucifugus)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B3	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611783	Long-eared Myotis (Myotis evotis)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B4	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: 1 call sequence definitively identified using Sonobat 3.0. Habitat Observation Notes: Herbaceous wetland								Nest:
Mammals	10611782	Long-legged Myotis (Myotis volans)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B3	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611784	Long-legged Myotis (Myotis volans)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B4	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611779	California Myotis (Myotis californicus)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B3	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611772	Western Small-footed Myotis (Myotis ciliolabrum)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611775	Western Small-footed Myotis (Myotis ciliolabrum)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: 16 call sequences definitively identified using Sonobat 3.0. Habitat Observation Notes: Herbaceous wetland								Nest:
Mammals	10611780	Western Small-footed Myotis (Myotis ciliolabrum)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B3	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611778	Silver-haired Bat (Lasionycteris noctivagans) Potential Species of Concern	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B3	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611777	Big Brown Bat (Eptesicus fuscus)	Crees, Bo and Nate Kohler	Jul 25, 2009		27C3	Deer Lodge	Last Log Draw, Site 728_B3	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813394	Long-tailed Vole (Microtus longicaudus)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garritty WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813400	Long-tailed Vole (Microtus longicaudus)	Kobayashi, Crystal	Jul 25, 2009		26D4	Deer Lodge	Garritty WMA	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Adult Female Pregnant Total Length=162 Habitat Observation Notes: Decid Shrub								Nest:
Mammals	10813340	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 26, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Juv Female Total Length=125 Habitat Observation Notes: Decid Shrub								
Mammals	10813339	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 26, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Male Total Length=159 Habitat Observation Notes: Decid Shrub								
Mammals	10813398	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 26, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female Pregnant								
Mammals	10813549	Masked Shrew (Sorex cinereus)	Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Habitat Observation Notes: Riparian								
Mammals	10813545	Vagrant Shrew (Sorex vagrans)	Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Habitat Observation Notes: Riparian								Nest:
Mammals	10813547	Vagrant Shrew (Sorex vagrans)	Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813548	Vagrant Shrew (Sorex vagrans)	Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813561	Dusky or Montane Shrew (Sorex monticolus)	Kobayashi, Crystal and Leary, Abby	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813563	Dusky or Montane Shrew (Sorex monticolus)	Kobayashi, Crystal and Leary, Abby	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813582	Dusky or Montane Shrew (Sorex monticolus)	Leary, Abby and Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:



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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Habitat Observation Notes: Riparian								Nest:
Mammals	10813560	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Male Scrotal								
Mammals	10813580	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Juv Female wet, very tiny juv Total Length=126								
				Habitat Observation Notes: Riparian								
Mammals	10813546	Montane Vole (Microtus montanus)	Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female Total Length=128								
				Habitat Observation Notes: Riparian								
Mammals	10813562	Western Jumping Mouse (Zapus princeps)	Kobayashi, Crystal and Leary, Abby	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Male								
				Habitat Observation Notes: Riparian								
Mammals	10813601	Montane Vole (Microtus montanus)	Leary, Abby	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Female Total Length=132 Habitat Observation Notes: Riparian								Nest:
Mammals	10813609	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813581	Montane Vole (Microtus montanus)	Leary, Abby and Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813583	Montane Vole (Microtus montanus)	Leary, Abby and Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813635	Meadow Vole (Microtus pennsylvanicus)	Kobayashi, Crystal	Jul 27, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813589	Meadow Vole (Microtus pennsylvanicus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Male small TL Total Length=125 Habitat Observation Notes: Riparian							Nest:	
Mammals	10813590	Meadow Vole (Microtus pennsylvanicus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813591	Meadow Vole (Microtus pennsylvanicus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813592	Montane Vole (Microtus montanus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813593	Montane Vole (Microtus montanus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813610	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Adult Female Pregnant Total Length=161 Habitat Observation Notes: Riparian								Nest:
Mammals	10813611	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813612	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813613	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813553	Meadow Vole (Microtus pennsylvanicus)	Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813584	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Male							Nest:	
Mammals	10813585	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813586	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813587	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813588	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813564	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Male Scrotal								Nest:
Mammals	10813565	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813566	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813568	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813569	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813570	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: 1 Males: 1 Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Juv Male Total Length=130 Habitat Observation Notes: Riparian								Nest:
Mammals	10813571	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813602	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813603	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813604	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813605	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs:



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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female Total Length=147 Habitat Observation Notes: Riparian								Nest:
Mammals	10813606	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: 1 Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813567	Dusky or Montane Shrew (Sorex monticolus)	Kobayashi, Crystal and Leary, Abby	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813550	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813551	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813552	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Adult Female Pregnant Habitat Observation Notes: Riparian							Nest:	
Mammals	10813554	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813555	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813556	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 28, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: 1 Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813557	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813558	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Female								Nest:
Mammals	10813559	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813577	Dusky or Montane Shrew (Sorex monticolus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813597	Dusky or Montane Shrew (Sorex monticolus)	Leary, Abby and Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813600	Masked Shrew (Sorex cinereus)	Leary, Abby and Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813607	Preble's Shrew (Sorex preblei) Species of Concern	Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Habitat Observation Notes: Riparian								Nest:
Mammals	10813608	Preble's Shrew (Sorex preblei) Species of Concern	Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813578	Columbian Ground Squirrel (Spermophilus columbianus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813572	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813573	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813574	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female Pregnant								Nest:
Mammals	10813575	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Male Scrotal Total Length=149 Habitat Observation Notes: Riparian								
Mammals	10813579	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female								
Mammals	10813594	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Adult Male Total Length=160 Habitat Observation Notes: Riparian								
Mammals	10813595	Deer Mouse (Peromyscus maniculatus)	Leary, Abby and Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Female Pregnant								
Mammals	10813576	Montane Vole (Microtus montanus)	Kobayashi, Crystal and Leary, Abby	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Female Total Length=117 Habitat Observation Notes: Riparian							Nest:	
Mammals	10813596	Montane Vole (Microtus montanus)	Leary, Abby and Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813598	Meadow Vole (Microtus pennsylvanicus)	Leary, Abby and Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813599	Meadow Vole (Microtus pennsylvanicus)	Leary, Abby and Kobayashi, Crystal	Jul 29, 2009		26D4	Deer Lodge	West Valley	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10611814	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 14, 2009		26D4	Deer Lodge	Stump Town, Site 937_B1	100			Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611817	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 14, 2009		26D4	Deer Lodge	Stump Town, Site 937_B3	100			Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: 4 call sequences definitively identified using Sonobat 3.0. Habitat Observation Notes: Conifer woodland								Nest:
Mammals	10611815	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 14, 2009		26D4	Deer Lodge	Stump Town, Site 937_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611818	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 14, 2009		26D4	Deer Lodge	Stump Town, Site 937_B4	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611816	Silver-haired Bat (Lasionycteris noctivagans) Potential Species of Concern	Crees, Bo and Nate Kohler	Aug 14, 2009		26D4	Deer Lodge	Stump Town, Site 937_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611719	Silver-haired Bat (Lasionycteris noctivagans) Potential Species of Concern	Crees, Bo and Nate Kohler	Aug 15, 2009		26D4	Deer Lodge	Stucky Gulch, Site 1407_B4	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611717	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 15, 2009		26D4	Deer Lodge	Stucky Gulch, Site 1405_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: 3 call sequences definitively identified using Sonobat 3.0.								Nest:
Mammals	10611716	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 15, 2009		26D4	Deer Lodge	Stucky Gulch, Site 1402_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611718	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 15, 2009		26D4	Deer Lodge	Stucky Gulch, Site 1407_B4	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611594	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 15, 2009		26D4	Deer Lodge	Levengood Gulch, Site 1058_B3	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10540107	Porcupine (Erethizon dorsatum)	Boyce, Mike	Aug 14, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	4700			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10540200	Mule Deer (Odocoileus hemionus)	Boyce, Mike	Aug 14, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	800			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
												Nest:
Mammals	10539 827	Western Jumping Mouse (Zapus princeps)	Boyce, Mike	Aug 15, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Station ID number - 2322. Snap, large (rat)  Habitat Observation Notes: riparian								
Mammals	10539 828	Western Jumping Mouse (Zapus princeps)	Boyce, Mike	Aug 15, 2006 to Aug 18, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 6  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Station ID number - 2322. Snap, med (museum special)  Habitat Observation Notes: riparian								
Mammals	10539 829	Western Jumping Mouse (Zapus princeps)	Boyce, Mike	Aug 15, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Station ID number - 2322. Snap, small (victor)  Habitat Observation Notes: riparian								
Mammals	10538 621	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 8  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Station ID number - 2324. Snap, med (museum special)  Habitat Observation Notes: aspen-conifer								
Mammals	10538 609	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 18, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 6  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Station ID number - 2316. Snap, med (museum special) Habitat Observation Notes: aspen								Nest:
Mammals	10537709	Vagrant Shrew (Sorex vagrans)	Boyce, Mike	Aug 15, 2006 to Aug 16, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2322. Pitfall Habitat Observation Notes: riparian								
Mammals	10537816	Dusky or Montane Shrew (Sorex monticolus)	Boyce, Mike	Aug 15, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2322. Pitfall Habitat Observation Notes: riparian								
Mammals	10538042	Yellow-pine Chipmunk (Tamias amoenus)	Boyce, Mike	Aug 15, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2316. Snap, med (museum special) Habitat Observation Notes: aspen								
Mammals	10538039	Yellow-pine Chipmunk (Tamias amoenus)	Boyce, Mike	Aug 15, 2006 to Aug 17, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 5 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2312. Cage, small (sherman) Habitat Observation Notes: lodgepole savanna								
Mammals	10538043	Yellow-pine Chipmunk (Tamias amoenus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 6 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Station ID number - 2318. Cage, small (sherman) Habitat Observation Notes: mixed shrub								
Mammals	10538044	Yellow-pine Chipmunk (Tamias amoenus)	Boyce, Mike	Aug 15, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538602	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 16, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 4 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538604	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 14 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538605	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 18, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 5 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538606	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 5 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Station ID number - 2314. Snap, med (museum special) Habitat Observation Notes: grassland								
Mammals	10538611	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2318. Cage, small (sherman) Habitat Observation Notes: mixed shrub								
Mammals	10538612	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 4  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2318. Snap, med (museum special) Habitat Observation Notes: mixed shrub								
Mammals	10538613	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 17, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2320. Cage, small (sherman) Habitat Observation Notes: sagebrush								
Mammals	10538614	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 6  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2320. Snap, med (museum special) Habitat Observation Notes: sagebrush								
Mammals	10538615	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 4  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Station ID number - 2322. Cage, small (sherman) Habitat Observation Notes: riparian								
Mammals	10538616	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538619	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 15, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538620	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 16, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538618	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 16, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 3  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538040	Yellow-pine Chipmunk (Tamias amoenus)	Boyce, Mike	Aug 16, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Station ID number - 2312. Snap, med (museum special) Habitat Observation Notes: lodgepole savanna								
Mammals	10537889	Dwarf Shrew (Sorex nanus) Species of Concern	Boyce, Mike	Aug 16, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2324. Pitfall Habitat Observation Notes: Aspen-conifer.								
Mammals	10537896	Water Shrew (Sorex palustris)	Boyce, Mike	Aug 16, 2006 to Aug 18, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2322. Snap, med (museum special) Habitat Observation Notes: riparian								
Mammals	10538622	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 16, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2324. Snap, small (victor) Habitat Observation Notes: aspen-conifer								
Mammals	10539637	Montane Vole (Microtus montanus)	Boyce, Mike	Aug 16, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2322. Pitfall Habitat Observation Notes: riparian								
Mammals	10539387	Meadow Vole (Microtus pennsylvanicus)	Boyce, Mike	Aug 17, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Station ID number - 2314. Pitfall Habitat Observation Notes: grassland								Nest:
Mammals	10539388	Meadow Vole (Microtus pennsylvanicus)	Boyce, Mike	Aug 17, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538235	Red Squirrel (Tamiasciurus hudsonicus)	Boyce, Mike	Aug 17, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538608	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 17, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538617	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 18, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 6 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10540016	Snowshoe Hare (Lepus americanus)	Boyce, Mike	Aug 18, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	800			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
												Nest:
Mammals	10539389	Meadow Vole (Microtus pennsylvanicus)	Boyce, Mike	Aug 18, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2322. Snap, med (museum special) Habitat Observation Notes: riparian								
Mammals	10539687	Long-tailed Vole (Microtus longicaudus)	Boyce, Mike	Aug 18, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2322. Snap, med (museum special) Habitat Observation Notes: riparian								
Mammals	10538610	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2316. Snap, small (victor) Habitat Observation Notes: aspen								
Mammals	10538045	Yellow-pine Chipmunk (Tamias amoenus)	Boyce, Mike	Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Station ID number - 2318. Snap, med (museum special) Habitat Observation Notes: mixed shrub								
Mammals	10538041	Yellow-pine Chipmunk (Tamias amoenus)	Boyce, Mike	Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Station ID number - 2316. Cage, small (sherman) Habitat Observation Notes: aspen								Nest:
Mammals	10538607	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10538603	Deer Mouse (Peromyscus maniculatus)	Boyce, Mike	Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10553720	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2006 to Feb 15, 2007		27C3	Deer Lodge	Furbearer harvest data for Township 005N011W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10553721	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2006 to Feb 15, 2007		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10543362	Marten (Martes americana)	Fur trapper	Dec 01, 2005 to Feb 15, 2006		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Fur harvest								Nest:
Mammals	10552878	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2005 to Feb 15, 2006		27C3	Deer Lodge	Furbearer harvest data for Township 005N011W	4827			Unknown Sex: 4 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10552005	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2004 to Feb 15, 2005		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	1055142	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2003 to Feb 15, 2004		27C3	Deer Lodge	Furbearer harvest data for Township 005N011W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10550374	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2002 to Feb 15, 2003		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10548961	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2000 to Feb 15, 2001		27C3	Deer Lodge	Furbearer harvest data for Township 005N011W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Fur harvest								
Mammals	10542833	Marten (Martes americana)	Fur trapper	Dec 01, 2000 to Feb 15, 2001		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10548438	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 1999 to Feb 15, 2000		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10542764	Marten (Martes americana)	Fur trapper	Dec 01, 1999 to Feb 15, 2000		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10557190	Mountain Lion (Puma concolor)	Unknown	Dec 23, 1999 to Jan 22, 2000		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10556677	Mountain Lion (Puma concolor)	Unknown	Dec 06, 1998 to Jan 02, 1999		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Hunter harvest.								
Mammals	10556296	Mountain Lion (Puma concolor)	Unknown	Dec 11, 1997		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10555963	Mountain Lion (Puma concolor)	Unknown	Dec 09, 1996		27C3	Deer Lodge	Hunter harvest data for township 005N011W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10556054	Mountain Lion (Puma concolor)	Unknown	Dec 22, 1996		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10019876	Canada Lynx (Lynx canadensis) Species of Concern	Unknown	Jan 01, 1984		27C3	Deer Lodge	Location directly from USFS lat-long coverage	10000			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10545224	Canada Lynx (Lynx canadensis) Species of Concern	Fur trapper	Dec 01, 1984 to Feb 15, 1985		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	6787			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Fur harvest								
Mammals	10010138	Beaver ( <i>Castor canadensis</i> )	Barton, L.	Jan 01, 1946		26D4	Deer Lodge	On Cable Ck, 5 mi W Anaconda	2000			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



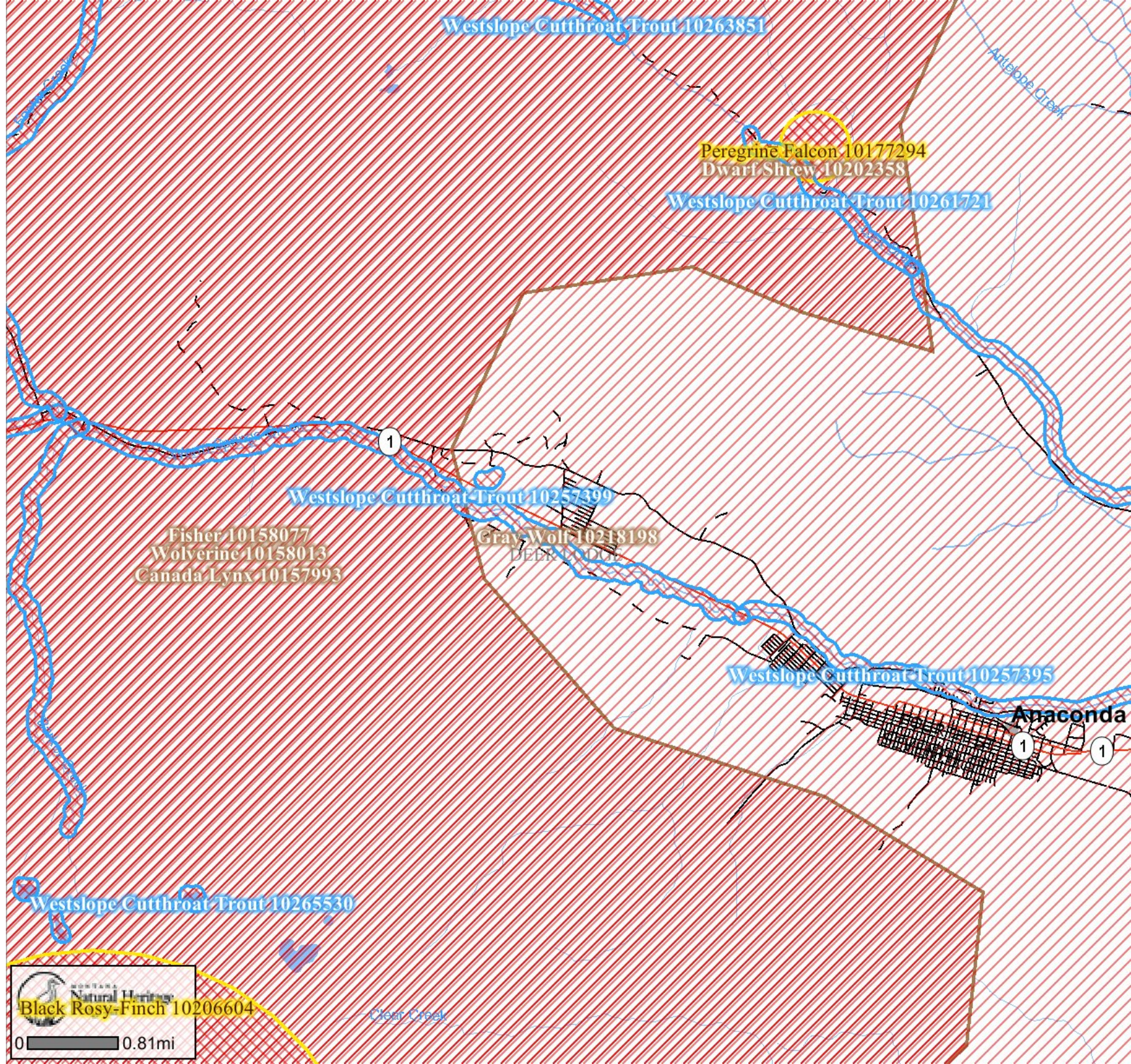
# Natural Heritage Tracker

(SOC = 'SOC')



## Species Occurrences (SO)

- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens



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# Species List with Species Occurrences and Observation Details

## Mammals - Canada Lynx (*Lynx canadensis*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G5	S3		THREATENED	SPECIAL STATUS	LT	Listed as Threatened on March 24th, 2000. Critical Habitat designated on September 9th, 2006.	SOC	1
Delineation Criteria:					Comments:			Last Updated::
Confirmed area of occupancy based on the documented presence of adults or juveniles within tracking regions containing core habitat for the species. Outer boundaries of tracking regions are defined by areas of forest cover on individual mountain ranges or clusters of adjacent mountain ranges with continuous forest cover.					The summary for each tracking region includes the total number of observations of the species, the earliest date of observation of the species, and the latest date of observation of the species.			Dec 27, 2007

### Species Occurrence 10157993

**Location:** Sapphire, Pintler, Flint Creek **Acreage:** 1,803,113

**Survey Date:** **First Observation:** 1962 **Last Observation:** 1998

**SO\_Data:** The Sapphire, Pintler, Flint Creek, and John Long mountain ranges have relatively continuous habitat for this species. Point observation records are summarized for this entire region and are summarized as follows (observations included animals and animal sign):<br>Pre-1970 = 1 harvest records, 0 observations<br>1970s = 5 harvest records, 1 observations<br>1980s = 37 harvest records, 32 observations<br>1990s = 1 harvest records, 20 observations<br>2000s = 0 harvest records, 0 observations (current to winter 2006-07)

## Mammals - Dwarf Shrew (*Sorex nanus*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G4	S2S3						SOC	2
Delineation Criteria:					Comments:			Last Updated::
Confirmed breeding area based on the presence of a resident animal of any age. Point observation location is buffered by a minimum distance of 100 meters in order to encompass the probable maximum home range size for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters.								Jan 11, 2008

### Species Occurrence 10202358

**Location:** **Acreage:** 8

**Survey Date:** **First Observation:** 2006-08-16 **Last Observation:** 2006-08-19

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precision (Meters)			
537889	Boyce, Mike	Aug 16, 2006 to Aug 19, 2006		27C3	Deer Lodge	Lost Creek SP and WMA	100			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Station ID number - 2324. Pitfall										
Habitat Observation Notes: Aspen-conifer.										

## Mammals - Fisher (*Martes pennanti*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G5	S3		SENSITIVE	SENSITIVE		The West Coast DPS of the fisher has been added to the candidate species list (Federal Register, 15 April 2004).	SOC	2
Delineation Criteria:					Comments:			Last Updated::
Confirmed area of occupancy based on the documented presence of adults or juveniles within tracking regions containing core habitat for the species. Outer boundaries of tracking regions are defined by areas of forest cover on individual mountain ranges or clusters of adjacent mountain ranges with continuous forest cover.					The summary for each tracking region includes the total number of observations of the species, the earliest date of observation of the species, and the latest date of observation of the species.			Dec 27, 2007

### Species Occurrence 10158077

**Location:** Pintler, Sapphire, John Long a **Acreage:** 1,803,113

**Survey Date:** **First Observation:** 1983 **Last Observation:** 2005

**SO\_Data:** The Sapphire, Pintler, John Long and Flint Creek mountain ranges have relatively continuous habitat for this species. Point observation records are summarized for this entire region and are summarized as follows (observations included animals and animal sign):<br>Pre-1970 = 0 harvest records, 1 observation<br>1970s = 0 harvest records, 0 observations<br>1980s = 8 harvest records, 10 observations<br>1990s = 1 harvest records, 1 observations<br>2000s = 1 harvest records, 1 observations (current to winter 2007-08)

## Mammals - Wolverine (*Gulo gulo*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G4	S3		SENSITIVE	SENSITIVE			SOC	2
Delineation Criteria:					Comments:			Last Updated::
Confirmed area of occupancy based on the documented presence of adults or juveniles within tracking regions containing core habitat for the species. Outer boundaries of tracking regions are defined by areas of forest cover on individual mountain ranges or clusters of adjacent mountain ranges with continuous forest					The summary for each tracking region includes the total number of observations of the species, the earliest date of observation of the species, and the latest date of observation of the species.			Dec 27, 2007

cover.

### Species Occurrence 10158013

**Location:** Pintler, Flint, Sapphire, and **Acreage:** 1,803,113

**Survey Date:** **First Observation:** 1948 **Last Observation:** 2004

**SO\_Data:** The Pintler, Flint, Sapphire, and John Long mountain ranges have relatively continuous habitat for this species. Point observation records are summarized for this entire region and are summarized as follows (observations included animals and animal sign):<br>Pre-1970 = 1 harvest records, 2 observations<br>1970s = 7 harvest records, 0 observations<br>1980s = 3 harvest records, 8 observations<br>1990s = 4 harvest records, 0 observations<br>2000s = 5 harvest records, 0 observations (current to winter 2006-07)

### Birds - Peregrine Falcon (*Falco peregrinus*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierI D
G4	S3		SENSITIVE	SENSITIVE	DM	Delisted from Endangered status on August 25th, 1999. Now designated as Delisted Taxon-Recovered.	SOC	2
Delineation Criteria:					Comments:			Last Updated::
Confirmed nesting area buffered by a minimum distance of 500 meters in order to encompass the area around the nest known to be defended by adults as well as the minimum distance reported between nests. Otherwise the nest area is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters.								Nov 26, 2007

### Species Occurrence 10177294

**Location:** **Acreage:** 193

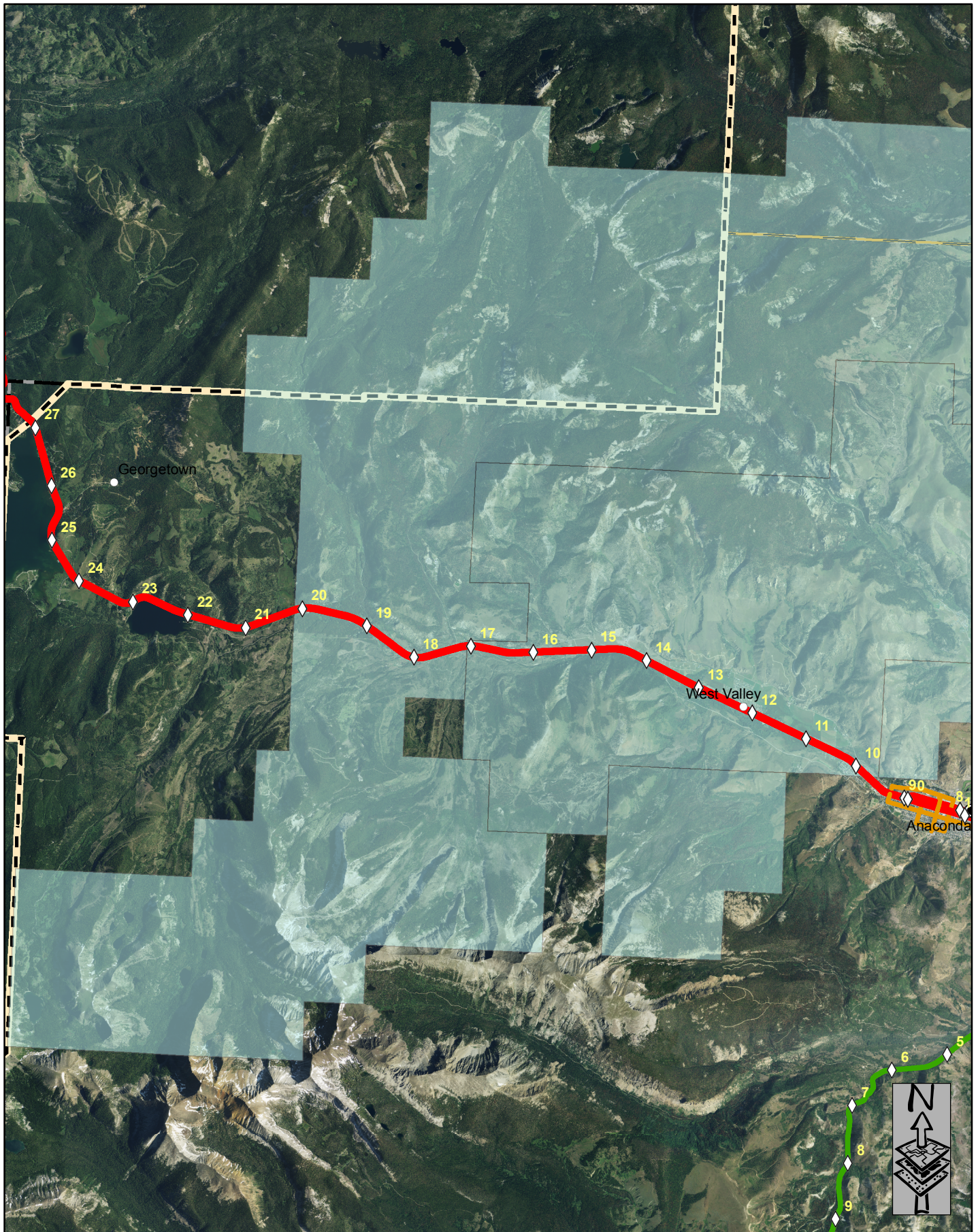
**Survey Date:** **First Observation:** **Last Observation:**

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precisio n (Meters)			
734397	Follman, Betsy and Wally Murphy	Jan 01, 1988 to Dec 31, 1988	Survey year only.	27C3	Deer Lodge	Lost Creek	250	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest: 1
Species Observation Notes: Identified as an historic peregrine eyrie. No dates provided for previous use.										
Habitat Observation Notes: 750-1000 foot tall 1.25 mile long cliff complex of granite with a southwest exposure within open conifer, deciduous/riparian habitat.										



MT1- Anaconda to Georgetown Lake Corridor Study  
Bighorn Sheep Winter Range





# Natural Heritage Tracker

(All Birds)

## Location

Latitude	Longitude
46.13443	113.05281
46.22124	113.21885



## Point Observations

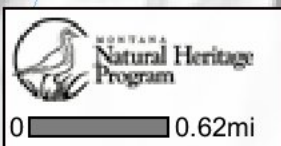
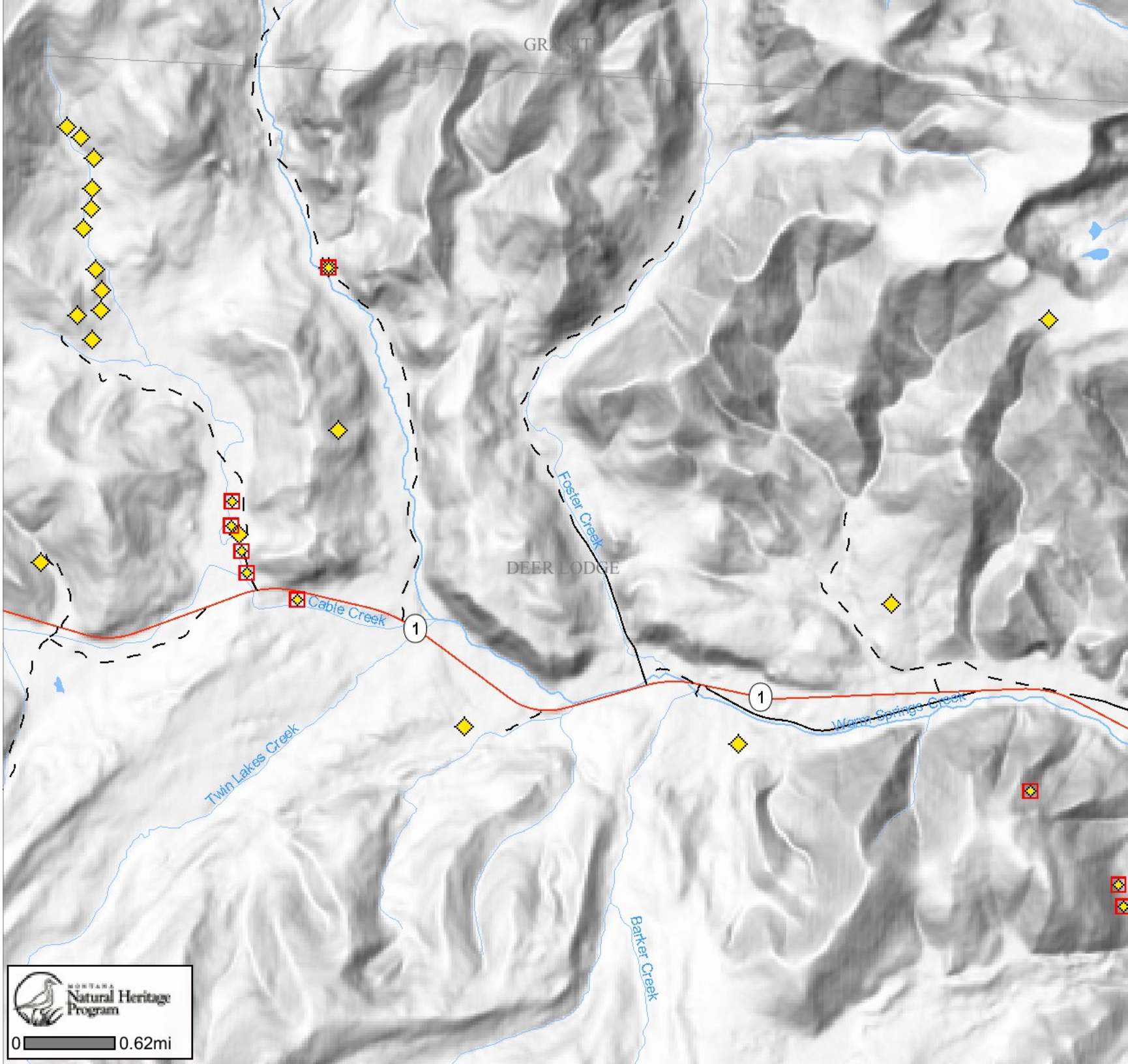
- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens

Outlined symbols are "pending records"

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# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
Birds												
Birds	51153944	Pine Siskin (Spinus pinus)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1
				Species Observation Notes: Unknown sex								Juveniles:
				Habitat Observation Notes: MIXED_CONIFER								Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153945	Ruby-crowned Kinglet (Regulus calendula)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1
				Species Observation Notes: Unknown sex								Juveniles:
				Habitat Observation Notes: MIXED_CONIFER								Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51153946	Townsend's Solitaire (Myadestes townsendi)	Kohler, Nate	Jun 02, 2009		26D4	Deer Lodge		20	t	Pending	Unknown Sex: 1
				Species Observation Notes: Unknown sex								Juveniles:
				Habitat Observation Notes: MIXED_CONIFER								Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231343	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.								Juveniles:
				Habitat Observation Notes: MESIC_SHRUB								Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231350	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.								Juveniles:
				Habitat Observation Notes: MESIC_SHRUB								Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231359	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 3
												Juveniles:
												Males: Immature: Females:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB							Eggs:  Pairs:  Nest:	
Birds	51231365	Warbling Vireo (Vireo gilvus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231369	Western Tanager (Piranga ludoviciana)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231376	Vesper Sparrow (Pooecetes gramineus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231336	Red-tailed Hawk (Buteo jamaicensis)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231341	Orange-crowned Warbler (Oreothlypis celata)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231344	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231347	Western Tanager (Piranga ludoviciana)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231349	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-DSL	Jun 02, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231360	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231363	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231366	Warbling Vireo (Vireo gilvus)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231371	Lazuli Bunting (Passerina amoena)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231380	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-DSL	Jun 02, 2009 to Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								
Birds	51231184	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231185	Swainson's Thrush (Catharus ustulatus)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:



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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231189	Yellow-throated Warbler ( <i>Dendroica dominica</i> )	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Birds	51231211	Warbling Vireo ( <i>Vireo gilvus</i> )	Avian Science Center-ECA	Jun 14, 2009 to Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 3  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231212	MacGillivray's Warbler ( <i>Oporornis tolmiei</i> )	Avian Science Center-ECA	Jun 14, 2009 to Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231213	Lincoln's Sparrow ( <i>Melospiza lincolni</i> )	Avian Science Center-ECA	Jun 14, 2009 to Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231169	American Wigeon ( <i>Anas americana</i> )	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231171	Killdeer (Charadrius vociferus)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231172	Wilson's Phalarope (Phalaropus tricolor)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231181	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231236	Green-winged Teal (Anas crecca)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 9  Juveniles: Males: 2 Immature: Females: 1 Eggs: Pairs: Nest:
Birds	51231237	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231238	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles:  Males: 2  Immature:  Females: 2  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231239	Gadwall (Anas strepera)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males: 2  Immature:  Females: 2  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231241	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 3  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231246	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231251	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females: 2  Eggs:  Pairs:  Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231183	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231196	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles: Males: 1 Immature: Females: 1 Eggs: Pairs: Nest:
Birds	51231243	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 7  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231248	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 7  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231249	Red-winged Blackbird (Agelaius phoeniceus)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231165	Green-winged Teal ( <i>Anas crecca</i> )	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231170	Sandhill Crane ( <i>Grus canadensis</i> )	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. bird code here was SAND. Megan changed this to SACR, which seemed like the only logical thing (?) after reading Eric's notes.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231182	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231195	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231199	Pine Siskin ( <i>Spinus pinus</i> )	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231242	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 3  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231244	Common Yellowthroat (Geothlypis trichas)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males: 2  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231247	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231166	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231167	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles:  Males: 1  Immature:  Females: 1  Eggs:  Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231168	American Wigeon (Anas americana)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231177	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231180	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231186	Yellow Warbler (Dendroica petechia)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231190	Savannah Sparrow (Passerculus sandwichensis)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:



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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231192	Red-winged Blackbird (Agelaius phoeniceus)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231240	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 4  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231245	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231250	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 12  Juveniles: Males: 2 Immature: Females: 3 Eggs: Pairs: Nest:
Birds	51231386	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								Nest:
Birds	51231391	Yellow Warbler (Dendroica petechia)	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231397	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231619	Dusky Grouse (Dendragapus obscurus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231637	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231650	Vesper Sparrow (Poocetes gramineus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

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				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231663	Pine Siskin ( <i>Spinus pinus</i> )	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231625	Hairy Woodpecker ( <i>Picoides villosus</i> )	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231636	Red-breasted Nuthatch ( <i>Sitta canadensis</i> )	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231641	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231649	Lazuli Bunting ( <i>Passerina amoena</i> )	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: MESIC_SHRUB								Nest:
Birds	51231 653	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-DSL	Jun 26, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 691	Sora (Porzana carolina)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 692	Red-naped Sapsucker (Sphyrapicus nuchalis)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 694	Western Wood-Pewee (Contopus sordidulus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 696	Tree Swallow (Tachycineta bicolor)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

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				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231 697	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 711	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 712	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 714	Pine Siskin (Spinus pinus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231 688	Gadwall (Anas strepera)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 2  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231690	Sora (Porzana carolina)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231693	Western Wood-Pewee (Contopus sordidulus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231695	Willow Flycatcher (Empidonax traillii)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231701	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231707	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231698	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231702	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231708	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50963048	Lesser Scaup (Aythya affinis)	Atkinson, Eric C.	Jul 04, 2009		26D4	Deer Lodge		100	B		Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest: 1
Birds	51231689	Lesser Scaup (Aythya affinis)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	B	Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. nest flushed on approach  Habitat Observation Notes: WILLOW_FLAT								Nest: 1
Birds	51231699	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231710	Common Yellowthroat (Geothlypis trichas)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50938046	Northern Flicker (Colaptes auratus)	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t		Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50938746	Common Raven (Corvus corax)	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50941103	Dark-eyed Junco (Junco hyemalis)	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Traveling Count (0.83 hour).								Nest:
Birds	50942334	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50073890	Osprey (Pandion haliaetus)	Whitcombe, Judy	Jul 23, 2000		26D4	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048463	Cassin's Finch (Carpodacus cassinii) Species of Concern	Stoecker, Don	Jul 28, 1996		26D4	Deer Lodge	Olson Gulch	1137	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048618	Greater Yellowlegs (Tringa melanoleuca)	Stoecker, Don	Jun 09, 1994		26D4	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50504501	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								Nest:
Birds	50514557	Common Raven ( <i>Corvus corax</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50551979	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50583064	Pine Siskin ( <i>Spinus pinus</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50595522	Red-breasted Nuthatch ( <i>Sitta canadensis</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50640917	Swainson's Thrush ( <i>Catharus ustulatus</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50647401	Northern Flicker (Colaptes auratus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50678028	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50015227	Northern Goshawk (Accipiter gentilis) <b>Species of Concern</b>	Balcomb, Janissa	Jul 13, 1994		26D4	Deer Lodge	Cable Creek area	500	B		Unknown Sex: Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest: 1
				Species Observation Notes: 1 adult actively defending nest and 1 juvenile in nest half feathered/half downy.  Habitat Observation Notes: Nest tree is a lodgepole pine, 20-22 meters tall with 30cm DBH. The nest is about 6 meters above ground on a large branch amidst a large mistletoe.								
Birds	50434594	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50473846	Pine Siskin (Spinus pinus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50542468	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50583476	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50651581	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50674991	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50520556	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50525977	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50664871	Clark's Nutcracker (Nucifraga columbiana) <b>Species of Concern</b>	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50678344	Red Crossbill (Loxia curvirostra)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50450197	Red Crossbill (Loxia curvirostra)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50490445	Common Raven (Corvus corax)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50514352	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50525932	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50422423	Hairy Woodpecker (Picoides villosus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50448612	Gray Jay (Perisoreus canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50514594	Common Raven (Corvus corax)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50562039	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50618866	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50629260	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50460301	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50542364	Red Crossbill (Loxia curvirostra)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50542761	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50615164	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50474182	Swainson's Thrush ( <i>Catharus ustulatus</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50485123	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50542492	Yellow-rumped Warbler ( <i>Dendroica coronata</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50546089	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50445925	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5424	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50666696	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5424	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50677214	Common Raven (Corvus corax)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5424	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50434581	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50438211	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50530638	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50562796	Pine Siskin (Spinus pinus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50577432	Hermit Thrush (Catharus guttatus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50599084	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50625080	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50431169	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50457375	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50559668	Mountain Chickadee ( <i>Poecile gambeli</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50626247	Red-breasted Nuthatch ( <i>Sitta canadensis</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50667778	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50021007	Lewis's Woodpecker (Melanerpes lewis) <b>Species of Concern</b>	Stoecker, Don	Jul 18, 1994		26D4	Deer Lodge	Anaconda, on old road W of town	1000	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048332	Cliff Swallow (Petrochelidon pyrrhonota)	Stoecker, Don	Jul 20, 1994		26D4	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Feeding young.								
Birds	50048617	Dusky Flycatcher (Empidonax oberholseri)	Stoecker, Don	Aug 19, 1994		26D4	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048571	Northern Harrier (Circus cyaneus)	Stoecker, Don	Jun 10, 1993		26D4	Deer Lodge		1000	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

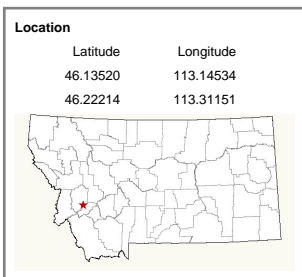
# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Carrying food.								
Birds	50008059	Great Blue Heron (Ardea herodias) Species of Concern	Eakin, Kirk	Jul 25, 1992		26D4	Deer Lodge	Hwy 1, W of Anaconda, near road to Youth Conservation Camp	1151	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50018111	Osprey (Pandion haliaetus)	Eakin, Kirk	Aug 10, 1992		26D4	Deer Lodge	Silver Lake	1000	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50017361	Peregrine Falcon (Falco peregrinus) Species of Concern	Eakin, Kirk	Sep 08, 1991		26D4	Deer Lodge	Olson Mountain	1152	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



# Natural Heritage Tracker

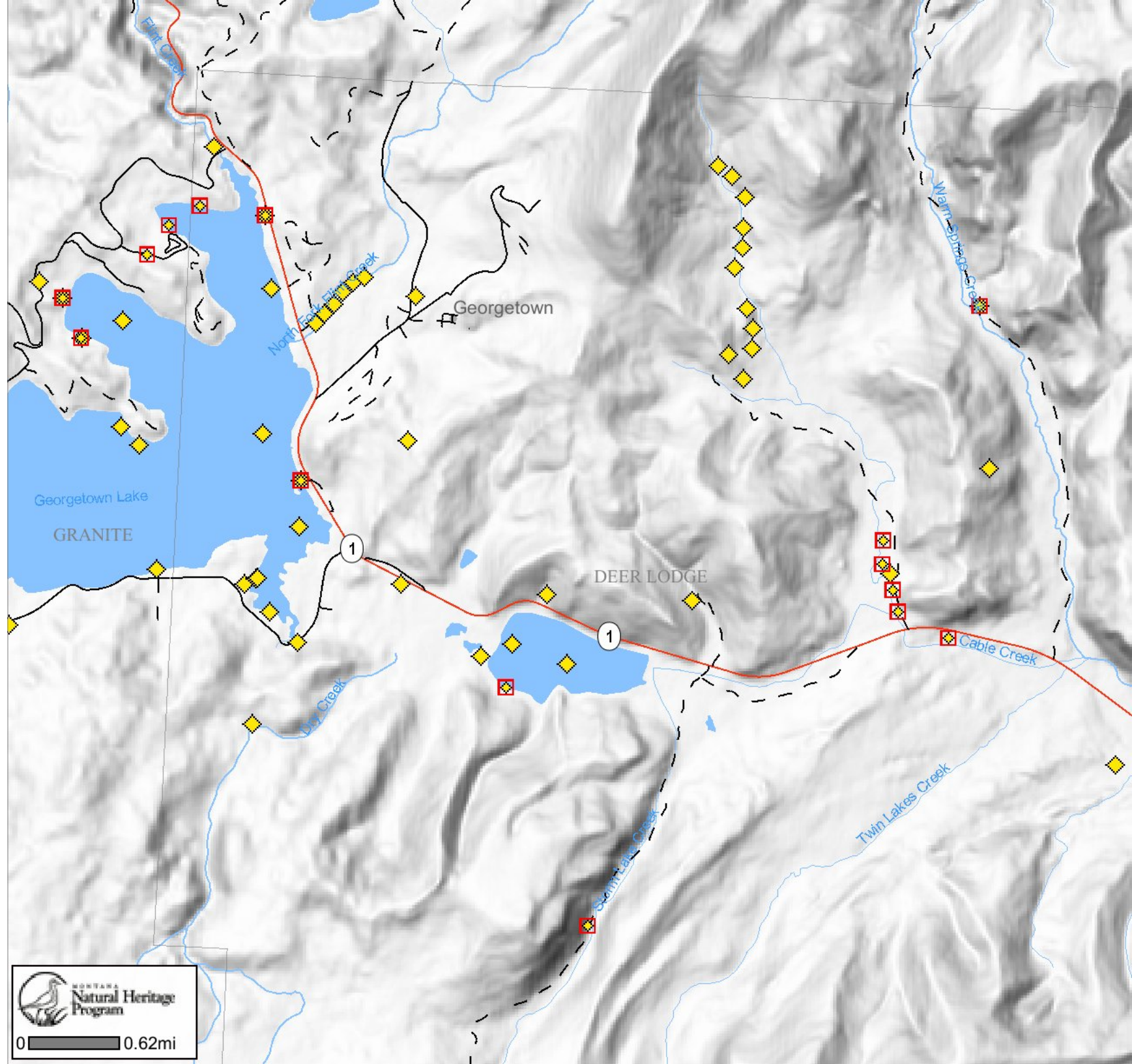
(All Birds)



## Point Observations

-  Mammals
-  Birds
-  Reptiles
-  Amphibians
-  Fish
-  Invertebrates
-  Vascular Plants
-  Bryophytes
-  Lichens

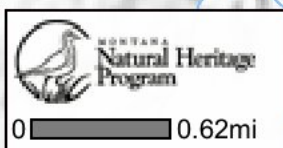
Outlined symbols are "pending records"



**DISCLAIMER:**  
This document was generated from the online Tracker and is intended for information and general planning purposes rather than regulatory decision-making.

The Species Occurrence and Observation databases are a statewide inventory of KNOWN locations and conditions of sensitive species. Parts of the state have not yet been inventoried, thus an "absence of evidence is not evidence of absence." Nor does the presence of one species imply that other species were surveyed for but not found.

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# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
Birds												
Birds	51124 227	American Dipper (Cinclus mexicanus)	Swant, Gary	Jan 23, 2010		26D3	Deer Lodge	Below Dam on Georgetown Lake in Flint Creek	100	w		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Year around resident Habitat Observation Notes: Open Creek water								
Birds	51124 226	Belted Kingfisher (Megaceryle alcyon)	Swant, Gary	Jan 23, 2010		26D3	Deer Lodge	South Side of Georgetown Lake	100	w		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: on wire Habitat Observation Notes: Open water spring in Georgetown Lake								
Birds	51124 225	Great Blue Heron (Ardea herodias) Species of Concern	Swant, Gary	Jan 23, 2010		26D3	Deer Lodge	Georgetown Lake, south side	100	w		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Habitat Observation Notes: Open water spring in Georgetown Lake								
Birds	51130 578	Great Gray Owl (Strix nebulosa) Species of Concern	Swant, Gary	Mar 29, 2010		26D3	Granite	Georgetown Lake, west shore near Dentons Point	100	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Habitat Observation Notes: In Lodgepole tree along lake shore.								
Birds	51159 972	Bald Eagle (Haliaeetus leucocephalus) Species of Concern	DuBois, Kristi	Jun 27, 2010		26D3	Granite	Georgetown Lake, north end	50	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: 1 adult flew over, may or may not belong to a nesting pair Habitat Observation Notes: mixed conifer forest on ridgetop								
Birds	51159 973	Red-necked Grebe (Podiceps grisegena)	DuBois, Kristi	Jun 27, 2010		26D3	Granite	Georgetown Lake, north end	50	b	Pending	Unknown Sex: Juveniles: Males: Immature: Females:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: pair of grebes off shore, preening and calling Habitat Observation Notes: shallow water near shore								Eggs: Pairs: 1 Nest:
Birds	51159 971	Red-necked Grebe (Podiceps grisegena)	DuBois, Kristi	Jun 27, 2010		26D3	Deer Lodge	Georgetown Lake, north end near Pebble Beach area	20	b	Pending	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: 1 Nest:
				Species Observation Notes: Pair observed calling, courting. Habitat Observation Notes: shallow water near shoreline								
Birds	50963 062	Bald Eagle (Haliaeetus leucocephalus) Species of Concern	Atkinson, Eric C.	Jun 14, 2009		26D3	Deer Lodge	Georgetown Lake, Stuart Mill Bay	100	t		Unknown Sex: Juveniles: 2 Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Two fledglings observed.								
Birds	51231 183	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. Habitat Observation Notes: WILLOW_FLAT								
Birds	51231 196	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5 Juveniles: Males: 1 Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. Habitat Observation Notes: WILLOW_FLAT								
Birds	51231 243	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 7 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								Nest:
Birds	51231248	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 7  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231249	Red-winged Blackbird (Agelaius phoeniceus)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females: 1  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231166	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231167	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles:  Males: 1  Immature:  Females: 1  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231168	American Wigeon (Anas americana)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231177	Clark's Nutcracker (Nucifraga columbiana) <b>Species of Concern</b>	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231180	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231186	Yellow Warbler (Dendroica petechia)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231190	Savannah Sparrow (Passerculus sandwichensis)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231192	Red-winged Blackbird (Agelaius phoeniceus)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231 240	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 4  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231 245	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231 250	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 12  Juveniles:  Males: 2  Immature:  Females: 3  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231 169	American Wigeon (Anas americana)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								
Birds	51231 171	Killdeer (Charadrius vociferus)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231172	Wilson's Phalarope (Phalaropus tricolor)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231181	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231236	Green-winged Teal (Anas crecca)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 9  Juveniles: Males: 2 Immature: Females: 1 Eggs: Pairs: Nest:
Birds	51231237	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231238	Mallard (Anas platyrhynchos)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 2 Immature: Females: 2 Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231239	Gadwall (Anas strepera)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males: 2  Immature:  Females: 2  Eggs:  Pairs:  Nest:
Birds	51231241	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 3  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	51231246	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 4  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	51231251	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females: 2  Eggs:  Pairs:  Nest:
Birds	51231165	Green-winged Teal (Anas crecca)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles:  Males: 1  Immature:  Females: 1  Eggs:  Pairs:  Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231170	Sandhill Crane (Grus canadensis)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. bird code here was SAND. Megan changed this to SACR, which seemed like the only logical thing (?) after reading Eric's notes.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231182	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231195	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231199	Pine Siskin (Spinus pinus)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231242	Wilson's Snipe (Gallinago delicata)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 3  Juveniles: Males: 1 Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								Nest:
Birds	51231244	Common Yellowthroat (Geothlypis trichas)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males: 2  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	51231247	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center-ECA	Jun 14, 2009 to Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	51231184	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	51231185	Swainson's Thrush (Catharus ustulatus)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	51231189	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-ECA	Jun 14, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females: 1  Eggs:  Pairs:  Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231211	Warbling Vireo (Vireo gilvus)	Avian Science Center-ECA	Jun 14, 2009 to Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 3  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231212	MacGillivray's Warbler (Oporornis tolmiei)	Avian Science Center-ECA	Jun 14, 2009 to Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles:  Males: 1  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231213	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center-ECA	Jun 14, 2009 to Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 5  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231386	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								
Birds	51231391	Yellow Warbler (Dendroica petechia)	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								Nest:
Birds	51231397	Brown-headed Cowbird (Molothrus ater)	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231392	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231393	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-ECA	Jun 21, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231682	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jul 03, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231698	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								Nest:
Birds	51231702	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231708	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50963048	Lesser Scaup (Aythya affinis)	Atkinson, Eric C.	Jul 04, 2009		26D4	Deer Lodge		100	B		Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest: 1
Birds	51231691	Sora (Porzana carolina)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231692	Red-naped Sapsucker (Sphyrapicus nuchalis)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231694	Western Wood-Pewee (Contopus sordidulus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231696	Tree Swallow (Tachycineta bicolor)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231697	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231711	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231712	Dark-eyed Junco (Montana Junco) (Junco hyemalis montanus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231714	Pine Siskin (Spinus pinus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231688	Gadwall (Anas strepera)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 2  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Birds	51231690	Sora (Porzana carolina)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231693	Western Wood-Pewee (Contopus sordidulus)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231695	Willow Flycatcher (Empidonax traillii)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WET_MEADOW								Nest:
Birds	51231701	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231707	Yellow-throated Warbler (Dendroica dominica)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231689	Lesser Scaup (Aythya affinis)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	B	Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest: 1
Birds	51231699	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51231710	Common Yellowthroat (Geothlypis trichas)	Avian Science Center-ECA	Jul 04, 2009		26D4	Deer Lodge		100	b	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers.  Habitat Observation Notes: WILLOW_FLAT								Nest:
Birds	51132625	Red Phalarope (Phalaropus fulicarius)	Kohler, Nate	Oct 24, 2009		26D4	Deer Lodge	Silver Lake, small pond on west end of	50	t		Unknown Sex: Juveniles: Males: Immature: 1 Females: Eggs: Pairs: Nest:
Birds	51126782	Gray Jay (Perisoreus canadensis)	Lesnik, Mike	Jun 25, 2008		26D3	Granite	Piney Campground	500	t	Pending	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51127559	Red-breasted Nuthatch (Sitta canadensis)	Lesnik, Mike	Jun 25, 2008		26D3	Granite	Piney Campground	500	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	51127595	Red-necked Grebe (Podiceps grisegena)	Lesnik, Mike	Jun 25, 2008		26D3	Granite	Piney Campground	500	B	Pending	Unknown Sex: 4 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest: 1
Birds	50415300	Black-capped Chickadee (Poecile atricapillus)	Swant, Gary	Jan 08, 2007		26D3	Granite	West shore of Georgetown Lake.	100	w		Unknown Sex: 45 Juveniles: Males: Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: On feeder at a cabin Habitat Observation Notes: Lodge Pole stand								Nest:
Birds	50415301	Evening Grosbeak (Coccothraustes vespertinus)	Swant, Gary	Jan 08, 2007		26D3	Granite	West shore of Georgetown Lake.	100	w		Unknown Sex:  Juveniles: Males: 8 Immature: Females: 5 Eggs: Pairs: Nest:
Birds	50415302	Mountain Chickadee (Poecile gambeli)	Swant, Gary	Jan 08, 2007		26D3	Granite	West shore of Georgetown Lake.	100	w		Unknown Sex: 20  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50415303	Pine Grosbeak (Pinicola enucleator)	Swant, Gary	Jan 08, 2007		26D3	Granite	West shore of Georgetown Lake.	100	w	Pending	Unknown Sex: 5  Juveniles: Males: 3 Immature: Females: Eggs: Pairs: Nest:
Birds	50933668	Northern Pintail (Anas acuta)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake Dam, Boat Launch	100	B	Pending	Unknown Sex: 6  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50934320	Mallard (Anas platyrhynchos)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake Dam, Boat Launch	100	B	Pending	Unknown Sex: 7  Juveniles: Males: Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Brood. Stationary Count (0.58 hour).								Nest:
Birds	50934988	Ring-necked Duck (Aythya collaris)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake Dam, Boat Launch	100	B	Pending	Unknown Sex: Juveniles: 28 Males: Immature: Females: 2 Eggs: Pairs: Nest:
				Species Observation Notes: Appeared to be two brood hens with 6 and 21 young- the young of the large brood all appeared to be about the same age (?). Stationary Count (0.58 hour).								
Birds	50940621	Bald Eagle (Haliaeetus leucocephalus) Species of Concern	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake Dam, Boat Launch	100	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Carrying a fish. Stationary Count (0.58 hour).								
Birds	50942619	Osprey (Pandion haliaetus)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake Dam, Boat Launch	100	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Stationary Count (0.58 hour).								
Birds	50944425	Red-necked Grebe (Podiceps grisegena)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake Dam, Boat Launch	100	t		Unknown Sex: 11 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Stationary Count (0.58 hour).								
Birds	50933131	Spotted Sandpiper (Actitis macularius)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Stationary Count (0.67 hour).								Nest:
Birds	50934246	Mallard (Anas platyrhynchos)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	B	Pending	Unknown Sex: Juveniles: 7 Males: Immature: Females: Eggs: Pairs: 1 Nest:
				Species Observation Notes: Molted drake, brood hen with 6 young and one single duckling (?). Stationary Count (0.67 hour).								
Birds	50938739	Common Raven (Corvus corax)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t	Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Stationary Count (0.67 hour).								
Birds	50940616	Bald Eagle (Haliaeetus leucocephalus) Species of Concern	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t	Pending	Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: One caught (or scavaged) a fish from lake. Stationary Count (0.67 hour).								
Birds	50940840	Barn Swallow (Hirundo rustica)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t	Pending	Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Stationary Count (0.67 hour).								
Birds	50941330	Ring-billed Gull (Larus delawarensis)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t	Pending	Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Stationary Count (0.67 hour).								Nest:
Birds	50942315	Clark's Nutcracker (Nucifraga columbiana) <b>Species of Concern</b>	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Stationary Count (0.67 hour).								
Birds	50942852	Savannah Sparrow (Passerculus sandwichensis)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Stationary Count (0.67 hour).								
Birds	50944432	Red-necked Grebe (Podiceps grisegena)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t		Unknown Sex: 10 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Stationary Count (0.67 hour).								
Birds	50948642	White-crowned Sparrow (Zonotrichia leucophrys)	Friesz, Ron	Aug 16, 2007		26D3	Deer Lodge	Georgetown Lake, Grassy Point Boat Launch	100	t	Pending	Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Feeding along lake shore adjacent a dense willow stand. Stationary Count (0.67 hour).								
Birds	50938046	Northern Flicker (Colaptes auratus)	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Traveling Count (0.83 hour).								Nest:
Birds	50938746	Common Raven ( <i>Corvus corax</i> )	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Traveling Count (0.83 hour).								
Birds	50941103	Dark-eyed Junco ( <i>Junco hyemalis</i> )	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t	Pending	Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Traveling Count (0.83 hour).								
Birds	50942334	Clark's Nutcracker ( <i>Nucifraga columbiana</i> ) <i>Species of Concern</i>	Friesz, Ron	Aug 16, 2007		26D4	Deer Lodge	Warm Springs Creek Picnic Area	650	t		Unknown Sex: 2  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Traveling Count (0.83 hour).								
Birds	50735328	Long-tailed Duck ( <i>Clangula hyemalis</i> )	Kohler, Nathan	Nov 12, 2007		26D4	Deer Lodge	West end of Silver Lake.	100	t	Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: One juvenile bird.								
				Habitat Observation Notes: Large Mountain Lake.								
Birds	50932915	Black Scoter ( <i>Melanitta americana</i> )	Kohler, Nathan	Nov 12, 2007		26D4	Deer Lodge	West end Silver Lake (E. of Georgetown Lake), Deer Lodge Co.	100	t		Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Observed one winter plumage juvenile; diving frequently and staying submerged for 30sec. - 1 min.  Habitat Observation Notes: Large mountain lake/reservoir								Nest:
Birds	50412085	Great Gray Owl ( <i>Strix nebulosa</i> ) Species of Concern	Kohler, Nathan	Jan 18, 2006		26D3	Granite	Georgetown Lake, NW side of lake along upper road	2700	w		Unknown Sex: 2  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50432896	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50435444	Warbling Vireo ( <i>Vireo gilvus</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50436806	Red Crossbill ( <i>Loxia curvirostra</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50448364	Chipping Sparrow ( <i>Spizella passerina</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
Birds	50537074	Cassin's Finch ( <i>Carpodacus cassinii</i> ) <b>Species of Concern</b>	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>												
Birds	50655578	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>												
Birds	50495952	Warbling Vireo ( <i>Vireo gilvus</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>												
Birds	50516209	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>												
Birds	50556741	Dark-eyed Junco ( <i>Junco hyemalis</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>												
Birds	50442996	Song Sparrow ( <i>Melospiza melodia</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								Pairs: Nest:
Birds	50458563	Warbling Vireo (Vireo gilvus)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50471910	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50512862	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50567301	Osprey (Pandion haliaetus)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50435850	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50519 512	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50584 489	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50621 225	Song Sparrow (Melospiza melodia)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50633 099	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50634 617	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50672897	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50420463	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50443064	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50446321	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50467867	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50493170	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50591349	Dusky Flycatcher ( <i>Empidonax oberholseri</i> )	Avian Science Center Landbird Monitoring Program	May 29, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50492731	Yellow Warbler ( <i>Dendroica petechia</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50448976	Common Raven ( <i>Corvus corax</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50435771	Song Sparrow ( <i>Melospiza melodia</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50627809	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50661370	Warbling Vireo (Vireo gilvus)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50677396	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50425365	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50648528	Song Sparrow (Melospiza melodia)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50522160	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 6 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50597143	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50471333	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50633027	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50644422	Spotted Sandpiper (Actitis macularius)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50531927	Yellow-rumped Warbler ( <i>Dendroica coronata</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50553167	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50575071	Wilson's Snipe ( <i>Gallinago delicata</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50575898	Common Raven ( <i>Corvus corax</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50579169	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 11 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50504971	Song Sparrow (Melospiza melodia)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50491037	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50437358	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50560687	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50565074	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50570937	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50589068	Chipping Sparrow ( <i>Spizella passerina</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50618995	Dark-eyed Junco ( <i>Junco hyemalis</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50542618	Mountain Chickadee ( <i>Poecile gambeli</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50638415	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 4 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50646824	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50658457	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50674356	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50625360	Chipping Sparrow (Spizella passerina)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50511415	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50556911	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50560491	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jun 13, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50592697	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50492033	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50553291	Yellow Warbler ( <i>Dendroica petechia</i> )	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50604764	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50478879	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50677254	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50682097	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50420785	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50479024	Mallard (Anas platyrhynchos)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	t		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50548340	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50549830	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50529472	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50499697	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50621676	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50599273	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50441131	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50682042	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50424581	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50564228	Lincoln's Sparrow (Melospiza lincolnii)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50635968	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50452324	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50520172	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50458300	Warbling Vireo (Vireo gilvus)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50539 246	Dusky Flycatcher (Empidonax oberholseri)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50633 633	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50672 949	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50457 130	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50444 140	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50627133	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50677408	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50602939	Mountain Chickadee ( <i>Poecile gambeli</i> )	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50554902	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	Jul 02, 2003		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50063167	Common Loon ( <i>Gavia immer</i> ) <b>Species of Concern</b>	Forkan, Kirk	May 25, 2001		26D3	Granite	Georgetown Lake, 15 miles W of Anaconda	3500	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Viewed one male and female on the lake.								
Birds	50617724	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50503983	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50537793	Song Sparrow (Melospiza melodia)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50542955	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50484619	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:



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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umt.edu/">http://avianscience.dbs.umt.edu/</a>								Nest:
Birds	50433283	Warbling Vireo (Vireo gilvus)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umt.edu/">http://avianscience.dbs.umt.edu/</a>								
Birds	50437449	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umt.edu/">http://avianscience.dbs.umt.edu/</a>								
Birds	50486931	Pine Siskin (Spinus pinus)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 5 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umt.edu/">http://avianscience.dbs.umt.edu/</a>								
Birds	50606834	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umt.edu/">http://avianscience.dbs.umt.edu/</a>								
Birds	50611169	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50627879	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50579394	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50544426	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50548748	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50450094	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50676 201	Pine Siskin ( <i>Spinus pinus</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 8 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50432 457	White-crowned Sparrow ( <i>Zonotrichia leucophrys</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50442 412	Brown-headed Cowbird ( <i>Molothrus ater</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50505 525	Yellow Warbler ( <i>Dendroica petechia</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50564 283	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50622 151	Song Sparrow (Melospiza melodia)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50557 272	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50564 167	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50567 929	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50609 606	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50430879	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50481113	Chipping Sparrow ( <i>Spizella passerina</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50488277	Red-breasted Nuthatch ( <i>Sitta canadensis</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50458222	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50670827	Chipping Sparrow ( <i>Spizella passerina</i> )	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50680859	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 4 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50429719	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50572184	MacGillivray's Warbler (Oporornis tolmiei)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50586057	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50613773	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50658007	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50507944	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50524420	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50665462	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50668335	Clark's Nutcracker (Nucifraga columbiana) <b>Species of Concern</b>	Avian Science Center Landbird Monitoring Program	Jun 19, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50512374	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50497620	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50475867	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50658952	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50671729	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50427790	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50461054	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50620507	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24283	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50512524	Warbling Vireo (Vireo gilvus)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50617918	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50529372	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50635860	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50649844	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50673937	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24284	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50426556	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50432810	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50566652	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50586328	Red-tailed Hawk (Buteo jamaicensis)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50605109	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50661096	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 4 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50528 502	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50440 261	Dark-eyed Junco ( <i>Junco hyemalis</i> )	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24286	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50681 681	Warbling Vireo ( <i>Vireo gilvus</i> )	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50662 664	Clark's Nutcracker ( <i>Nucifraga columbiana</i> ) <b>Species of Concern</b>	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50642 412	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50649 941	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50620 747	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24285	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50635 014	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50554 944	Willow Flycatcher (Empidonax traillii)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50612 393	American Crow (Corvus brachyrhynchos)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50495801	Warbling Vireo (Vireo gilvus)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50516726	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50602635	Yellow Warbler (Dendroica petechia)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50453965	White-crowned Sparrow (Zonotrichia leucophrys)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50446993	Lincoln's Sparrow (Melospiza lincolni)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



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TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50428997	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24281	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50496784	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50422970	Warbling Vireo (Vireo gilvus)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50428106	Brown-headed Cowbird (Molothrus ater)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50544233	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50641357	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50587537	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 11, 2001		26D3	Deer Lodge	Landbird Monitoring Program PointID 24282	150	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50073890	Osprey (Pandion haliaetus)	Whitcombe, Judy	Jul 23, 2000		26D4	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: On nest.								
Birds	50062935	Cliff Swallow (Petrochelidon pyrrhonota)	Whitcombe, Judy	Jul 23, 2000		26D3	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Nests on barn, with adult flying in and out.								
Birds	50053542	Gadwall (Anas strepera)	Stoecker, Don	Jun 22, 1998		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
Birds	50053 543	Blue-winged Teal ( <i>Anas discors</i> )	Stoecker, Don	Jun 22, 1998		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 827	Eared Grebe ( <i>Podiceps nigricollis</i> )	Stoecker, Don	May 15, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 742	California Gull ( <i>Larus californicus</i> )	Stoecker, Don	May 19, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 775	Tundra Swan ( <i>Cygnus columbianus</i> )	Stoecker, Don	May 19, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 609	Common Merganser ( <i>Mergus merganser</i> )	Stoecker, Don	Jun 03, 1996		26D3	Deer Lodge		1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info		
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)					
												Nest:		
Birds	50048616	Northern Pintail (Anas acuta)	Stoecker, Don	Jun 09, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex:		
												Juveniles:	Males:	Immature:
Birds	50048759	Bufflehead (Bucephala albeola)	Stoecker, Don	Jun 12, 1996		26D3	Deer Lodge		1000	t		Unknown Sex:		
												Juveniles:	Males:	Immature:
Birds	50048744	Cinnamon Teal (Anas cyanoptera)	Stoecker, Don	Jun 12, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex:		
												Juveniles:	Males:	Immature:
Birds	50048745	Canvasback (Aythya valisineria)	Stoecker, Don	Jun 12, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex:		
												Juveniles:	Males:	Immature:
Birds	50048601	Blue-winged Teal (Anas discors)	Stoecker, Don	Jun 18, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex:		
												Juveniles:	Males:	Immature:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info		
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )					
												Nest:		
Birds	50048565	Mallard (Anas platyrhynchos)	Stoecker, Don	Jul 10, 1996		26D3	Deer Lodge	Georgetown Lake	1000	b		Unknown Sex:		
												Juveniles:	Males:	Immature:
Birds	50048544	Osprey (Pandion haliaetus)	Stoecker, Don	Jul 10, 1996		26D4	Deer Lodge		1000	B		Unknown Sex:		
				Species Observation Notes: Young in nest.								Juveniles:	Males:	Immature:
Birds	50048546	American Wigeon (Anas americana)	Stoecker, Don	Jul 11, 1996		26D3	Deer Lodge		1000	B		Unknown Sex:		
				Species Observation Notes: Adult w/ young.								Juveniles:	Males:	Immature:
Birds	50048762	Ring-necked Duck (Aythya collaris)	Stoecker, Don	Aug 13, 1996		26D3	Deer Lodge		1000	B		Unknown Sex:		
				Species Observation Notes: Adult w/ young.								Juveniles:	Males:	Immature:
Birds	50048360	Canada Goose (Branta canadensis)	Stoecker, Don	Sep 18, 1996		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex:		
												Juveniles:	Males:	Immature:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
												Nest:
Birds	50048777	Horned Grebe (Podiceps auritus) <b>Species of Concern</b>	Stoecker, Don	May 20, 1995		26D3	Deer Lodge	Georgetown Lake	1122	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048778	Western Grebe (Aechmophorus occidentalis)	Stoecker, Don	May 20, 1995		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048812	Common Loon (Gavia immer) <b>Species of Concern</b>	Stoecker, Don	Jun 03, 1995		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048776	Northern Shrike (Lanius excubitor)	Stoecker, Don	Jan 04, 1994		26D3	Deer Lodge	Georgetown Lake	1000	w		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048746	Snow Goose (Chen caerulescens)	Stoecker, Don	May 12, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
												Nest:
Birds	50048 619	Long-billed Dowitcher (Limnodromus scolopaceus)	Stoecker, Don	May 28, 1994		26D3	Deer Lodge		1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 615	Willet (Tringa semipalmata)	Stoecker, Don	May 28, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 567	Common Goldeneye (Bucephala clangula)	Stoecker, Don	May 30, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 618	Greater Yellowlegs (Tringa melanoleuca)	Stoecker, Don	Jun 09, 1994		26D4	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 551	Northern Shoveler (Anas clypeata)	Stoecker, Don	Jun 12, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
												Nest:
Birds	50048556	Gadwall (Anas strepera)	Stoecker, Don	Jun 16, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048578	Wilson's Phalarope (Phalaropus tricolor)	Stoecker, Don	Jun 16, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048587	Common Yellowthroat (Geothlypis trichas)	Stoecker, Don	Jun 25, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048256	Barrow's Goldeneye (Bucephala islandica) Potential Species of Concern	Stoecker, Don	Jul 06, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048248	House Wren (Troglodytes aedon)	Stoecker, Don	Jul 12, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
												Nest:
Birds	50504501	Dark-eyed Junco ( <i>Junco hyemalis</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>								
Birds	50514557	Common Raven ( <i>Corvus corax</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>								
Birds	50551979	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>								
Birds	50583064	Pine Siskin ( <i>Spinus pinus</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umn.edu/">http://avianscience.dbs.umn.edu/</a>								
Birds	50595522	Red-breasted Nuthatch ( <i>Sitta canadensis</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								Nest:
Birds	50640917	Swainson's Thrush (Catharus ustulatus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50647401	Northern Flicker (Colaptes auratus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50678028	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5430	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50015227	Northern Goshawk (Accipiter gentilis) <b>Species of Concern</b>	Balcomb, Janissa	Jul 13, 1994		26D4	Deer Lodge	Cable Creek area	500	B		Unknown Sex: Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest: 1
				Species Observation Notes: 1 adult actively defending nest and 1 juvenile in nest half feathered/half downy.  Habitat Observation Notes: Nest tree is a lodgepole pine, 20-22 meters tall with 30cm DBH. The nest is about 6 meters above ground on a large branch amidts a large mistletoe.								
Birds	50434594	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50473846	Pine Siskin ( <i>Spinus pinus</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50542468	Yellow-rumped Warbler ( <i>Dendroica coronata</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50583476	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50651581	Ruby-crowned Kinglet ( <i>Regulus calendula</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50674991	Dark-eyed Junco ( <i>Junco hyemalis</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5429	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50520556	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50525977	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50664871	Clark's Nutcracker (Nucifraga columbiana) <b>Species of Concern</b>	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50678344	Red Crossbill (Loxia curvirostra)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5425	250	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50450197	Red Crossbill (Loxia curvirostra)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50490445	Common Raven (Corvus corax)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50514352	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50525932	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5426	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50422423	Hairy Woodpecker (Picoides villosus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50448612	Gray Jay (Perisoreus canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50514594	Common Raven (Corvus corax)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50562039	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50618866	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50629260	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5421	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50460301	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50542364	Red Crossbill ( <i>Loxia curvirostra</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50542761	American Robin ( <i>Turdus migratorius</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50615164	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5427	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50474182	Swainson's Thrush ( <i>Catharus ustulatus</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50485123	Townsend's Solitaire ( <i>Myadestes townsendi</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50542492	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50546089	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5428	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50445925	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5424	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50666696	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5424	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50677214	Common Raven (Corvus corax)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5424	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50434581	Dark-eyed Junco (Junco hyemalis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50438211	Red-breasted Nuthatch (Sitta canadensis)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50530638	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50562796	Pine Siskin (Spinus pinus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50577432	Hermit Thrush (Catharus guttatus)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50599084	Yellow-rumped Warbler (Dendroica coronata)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50625080	Ruby-crowned Kinglet (Regulus calendula)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5422	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50431169	American Robin (Turdus migratorius)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50457375	Townsend's Solitaire (Myadestes townsendi)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at http://avianscience.dbs.umd.edu/								
Birds	50559668	Mountain Chickadee (Poecile gambeli)	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50626 247	Red-breasted Nuthatch ( <i>Sitta canadensis</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50667 778	Dark-eyed Junco ( <i>Junco hyemalis</i> )	Avian Science Center Landbird Monitoring Program	Jul 13, 1994		26D4	Deer Lodge	Landbird Monitoring Program PointID 5423	250	b		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Species observation data gathered by Avian Science Center during standard 10-minute point count survey with trained observers. See Avian Science Center website for details on methodology at <a href="http://avianscience.dbs.umd.edu/">http://avianscience.dbs.umd.edu/</a>								
Birds	50048 554	Lesser Scaup ( <i>Aythya affinis</i> )	Stoecker, Don	Jul 16, 1994		26D3	Deer Lodge	Georgetown Lake	1000	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50021 007	Lewis's Woodpecker ( <i>Melanerpes lewis</i> ) <b>Species of Concern</b>	Stoecker, Don	Jul 18, 1994		26D4	Deer Lodge	Anaconda, on old road W of town	1000	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 332	Cliff Swallow ( <i>Petrochelidon pyrrhonota</i> )	Stoecker, Don	Jul 20, 1994		26D4	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH	DAY	Notes	LL	QLL	QLL			
				Species Observation Notes: Feeding young.								
Birds	50048 254	Sora (Porzana carolina)	Stoecker, Don	Jul 23, 1994			26D3	Deer Lodge	Georgetown Lake	1000	B	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Adult w/ young.								
Birds	50048 559	Ruddy Duck (Oxyura jamaicensis)	Stoecker, Don	Jul 28, 1994			26D3	Deer Lodge		1000	B	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Adult w/ young.								
Birds	50048 561	White-crowned Sparrow (Zonotrichia leucophrys)	Stoecker, Don	Aug 01, 1994			26D3	Deer Lodge		1000	B	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Adult w/ young.								
Birds	50048 617	Dusky Flycatcher (Empidonax oberholseri)	Stoecker, Don	Aug 19, 1994			26D4	Deer Lodge	Georgetown Lake	1000	t	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048 640	Cedar Waxwing (Bombycilla cedrorum)	Stoecker, Don	Aug 26, 1994			26D3	Deer Lodge		1000	t	Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
												Nest:
Birds	50048741	Bald Eagle (Haliaeetus leucocephalus) <b>Species of Concern</b>	Stoecker, Don	Oct 09, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048743	Redhead (Aythya americana)	Stoecker, Don	Oct 18, 1994		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048814	Bohemian Waxwing (Bombycilla garrulus)	Stoecker, Don	Jan 16, 1993		26D3	Deer Lodge	Georgetown Lake	1000	w		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048779	Ring-billed Gull (Larus delawarensis)	Stoecker, Don	May 12, 1993		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048773	Wilson's Snipe (Gallinago delicata)	Stoecker, Don	May 14, 1993		26D3	Deer Lodge		1000	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Mating display.								Nest:
Birds	50048 571	Northern Harrier (Circus cyaneus)	Stoecker, Don	Jun 10, 1993		26D4	Deer Lodge		1000	b		Unknown Sex:  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50048 258	Hooded Merganser (Lophodytes cucullatus) <b>Potential Species of Concern</b>	Stoecker, Don	Jul 10, 1993		26D3	Granite	Georgetown Lake	745	t		Unknown Sex:  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50048 345	Cassin's Finch (Carpodacus cassinii) <b>Species of Concern</b>	Stoecker, Don	Jul 24, 1993		26D3	Deer Lodge	Stuart Mill Bay, Georgetown Lake	1122	B		Unknown Sex:  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50048 260	Townsend's Warbler (Dendroica townsendi)	Stoecker, Don	Aug 14, 1993		26D3	Deer Lodge	Georgetown Lake	1000	t		Unknown Sex:  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:
Birds	50048 356	Wilson's Warbler (Wilsonia pusilla)	Stoecker, Don	Sep 23, 1993		26D3	Deer Lodge		1000	t		Unknown Sex:  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
												Nest:
Birds	50009053	American Coot (Fulica americana)	Eakin, Kirk	May 15, 1992		26D3	Deer Lodge	Georgetown Lake at Dentons Point	1000	t		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50048302	Ruffed Grouse (Bonasa umbellus)	Stoecker, Don	May 15, 1992		26D3	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
					Species Observation Notes: Drumming on log.							
Birds	50048300	Willow Flycatcher (Empidonax traillii)	Stoecker, Don	Jun 20, 1992		26D3	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
					Species Observation Notes: Sitting on nest.							
Birds	50048631	Rufous Hummingbird (Selasphorus rufus) <b>Potential Species of Concern</b>	Stoecker, Don	Jul 10, 1992		26D3	Deer Lodge		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
					Species Observation Notes: Young in nest.							
Birds	50048358	Cooper's Hawk (Accipiter cooperii)	Stoecker, Don	Aug 02, 1992		26D3	Granite		1000	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

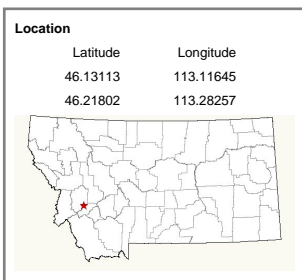
TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Adult w/ young in nest.								Nest:
Birds	50018111	Osprey (Pandion haliaetus)	Eakin, Kirk	Aug 10, 1992		26D4	Deer Lodge	Silver Lake	1000	b		Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50026300	Clark's Nutcracker (Nucifraga columbiana) Species of Concern	Hartman, John V.	Jan 01, 1991 to Jan 31, 1991	Only month provided.	26D3	Granite	Denton's Point, Georgetown Lake	1300	W		Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50047719	Bald Eagle (Haliaeetus leucocephalus) Species of Concern	Hartman, John V.	Jan 05, 1991		26D3	Deer Lodge	Georgetown Lake, near Grassy Point Campground	1000	w		Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50045615	Ruby-crowned Kinglet (Regulus calendula)	Hartman, John V.	May 01, 1991 to May 31, 1991	Only month provided.	26D3	Deer Lodge	Denton's Point Road, Georgetown Lake	1000	b		Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Birds	50003163	Mallard (Anas platyrhynchos)	Eakin, Kirk	May 14, 1991		26D3	Deer Lodge	Georgetown Lake at Dentons Point	1000	t		Unknown Sex:  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
												Nest:
Birds	50001700	Caspian Tern (Hydroprogne caspia) <b>Species of Concern</b>	Stoecker, Don	Jul 15, 1981		26D4	Deer Lodge	Silver Lake	1000	t		Unknown Sex: 1  Juveniles:  Males:  Immature:  Females:  Eggs:  Pairs:  Nest:

# Natural Heritage Tracker

(All Reptiles or All Amphibians or All Fish or All Invertebrates)



## Point Observations

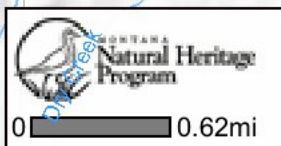
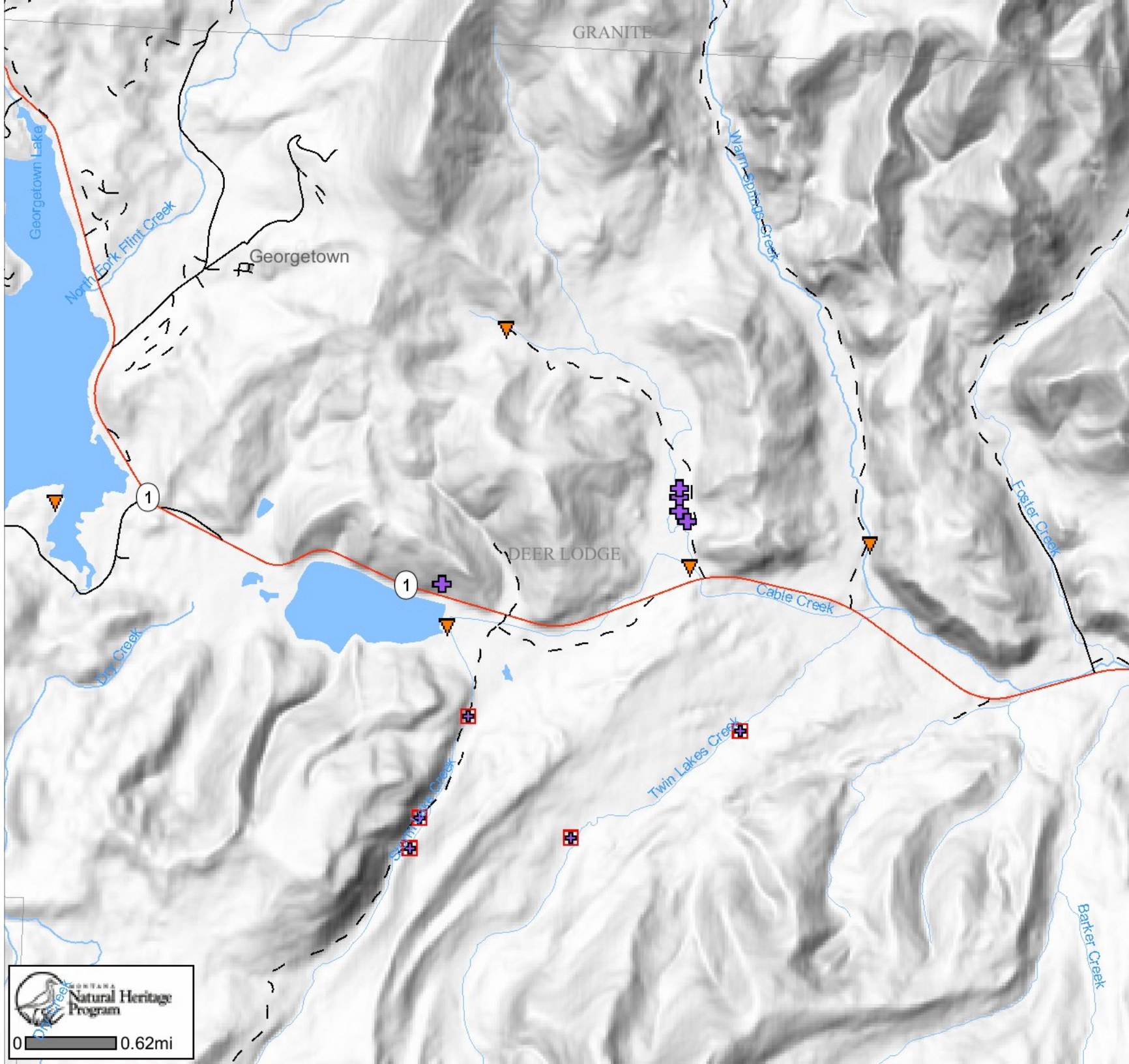
- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens

Outlined symbols are "pending records"

**DISCLAIMER:**  
This document was generated from the online Tracker and is intended for information and general planning purposes rather than regulatory decision-making.

The Species Occurrence and Observation databases are a statewide inventory of KNOWN locations and conditions of sensitive species. Parts of the state have not yet been inventoried, thus an "absence of evidence is not evidence of absence." Nor does the presence of one species imply that other species were surveyed for but not found.

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# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
Amphibians												
Amphibians	10608105	Columbia Spotted Frog (Rana luteiventris)	Atkinson, Eric C.	Jun 14, 2009		26D4	Deer Lodge		100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed 1 adult. Habitat Observation Notes: In sedges along Cable Creek.								
Amphibians	10608104	Columbia Spotted Frog (Rana luteiventris)	Atkinson, Eric C.	Jun 14, 2009		26D4	Deer Lodge		100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed a dead adult. Photo. Habitat Observation Notes: Side channel of Cable Creek.								
Amphibians	10608100	Columbia Spotted Frog (Rana luteiventris)	Atkinson, Eric C.	Jul 04, 2009		26D4	Deer Lodge		100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed 1 adult.								
Amphibians	10608101	Columbia Spotted Frog (Rana luteiventris)	Atkinson, Eric C.	Jul 04, 2009		26D4	Deer Lodge		100			Unknown Sex: Juveniles: 1 Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed 1 young of the year.								
Amphibians	10806611	Rocky Mountain Tailed Frog (Ascaphus montanus)	Lindstrom, Jason	Jul 19, 2007		26D4	Deer Lodge	Storm Lake Creek Basin-Storm Lake Creek ; River Mile 1.4	20		Pending	Unknown Sex: 1 Juveniles: 2 Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Tailed Frogs: 1 adult and several larva								
Amphibians	10806610	Rocky Mountain Tailed Frog (Ascaphus montanus)	Lindstrom, Jason	Jul 24, 2007		26D4	Deer Lodge	Storm Lake Creek Basin-Storm Lake Creek ; River Mile 0.6	20		Pending	Unknown Sex: Juveniles: 2 Males: Immature: Females:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Tailed Frog Larva Fairly Abundant in Reach							Eggs: Pairs: Nest:	
Amphibians	10806616	Rocky Mountain Tailed Frog (Ascaphus montanus)	Lindstrom, Jason	Jul 26, 2007		26D4	Deer Lodge	Twin Lakes Creek Basin-Twin Lakes Creek ; River Mile 2.8	20		Pending	Unknown Sex: Juveniles: 6 Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: A few Tailed Frog Larva in Reach (~ 6 observed)								
Amphibians	10806615	Rocky Mountain Tailed Frog (Ascaphus montanus)	Lindstrom, Jason	Jul 26, 2007		26D4	Deer Lodge	Twin Lakes Creek Basin-Twin Lakes Creek ; River Mile 1.4	20		Pending	Unknown Sex: Juveniles: 2 Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: A few Tailed Frog Larva in Reach								
Amphibians	10804911	Rocky Mountain Tailed Frog (Ascaphus montanus)	FWP Personnel	Sep 12, 2007		26D4	Deer Lodge	Storm Lake Creek	100		Pending	Unknown Sex: 20 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Twenty individuals captured with a dip net during fish survey.								
Amphibians	10015488	Long-toed Salamander (Ambystoma macrodactylum)	Gossack, B.	Jun 15, 1979		26D4	Deer Lodge	Silver Lake	8000			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates												
Invertebrates	10611191	American Emerald (Cordulia shurtleffii)	Kohler, Nathan S.	Jul 09, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: Juveniles: Males: 1 Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Collected one adult male and one adult female.								Nest:
Invertebrates	10611128	Western Red Damsel (Amphiagrion abbreviatum)	Kohler, Nathan S.	Jul 09, 2009		26D4	Deer Lodge	Cable Creek Road, pond 2.5 miles up from	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611429	Red-veined Meadowhawk (Sympetrum madidum) Potential Species of Concern	Kohler, Nathan S.	Jul 09, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Collected one adult male.								
Invertebrates	10611431	Red-veined Meadowhawk (Sympetrum madidum) Potential Species of Concern	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611442	Emerald Spreadwing (Lestes dryas)	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek, just north of Hwy 1	400			Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Collected one adult male.								
Invertebrates	10611327	Four-spotted Skimmer (Libellula quadrimaculata)	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611139	Western Red Damsel (Amphiagrimon abbreviatum)	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611185	American Emerald (Cordulia shurtleffii)	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611366	Mountain Emerald (Somatochlora semicircularis) Potential Species of Concern	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611340	Hudsonian Whiteface (Leucorrhinia hudsonica)	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek, just north of Hwy 1	400			Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Collected one adult male.								
Invertebrates	10611213	Belted Whiteface (Leucorrhinia proxima)	Kohler, Nathan S.	Jul 20, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611215	Belted Whiteface (Leucorrhinia proxima)	Kohler, Nathan S.	Aug 03, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611369	Mountain Emerald (Somatochlora semicircularis) <b>Potential Species of Concern</b>	Kohler, Nathan S.	Aug 03, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611186	American Emerald (Cordulia shurtleffii)	Kohler, Nathan S.	Aug 03, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10611388	Paddle-tailed Darner (Aeshna palmata)	Kohler, Nathan S.	Aug 03, 2009		26D4	Deer Lodge	Cable Creek Road, small reservoir 2.5 miles up	400			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observed at least one unknown sex adult.								
Invertebrates	10603478	Paddle-tailed Darner (Aeshna palmata)	Kohler, Nathan S.	Aug 28, 2008		26D3	Deer Lodge	Georgetown Lake	400			Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Collected one adult male.								
Invertebrates	10603393	Mountain Emerald ( <i>Somatochlora semicircularis</i> ) <b>Potential Species of Concern</b>	Kohler, Nathan S.	Aug 28, 2008		26D3	Deer Lodge	Georgetown Lake	400			Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Invertebrates	10603307	Black Meadowhawk ( <i>Sympetrum danae</i> )	Kohler, Nathan S.	Aug 28, 2008		26D3	Deer Lodge	Georgetown Lake	400			Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10603342	Cherry-faced Meadowhawk ( <i>Sympetrum internum</i> )	Kohler, Nathan S.	Aug 28, 2008		26D3	Deer Lodge	Georgetown Lake	400			Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598065	A Stonefly ( <i>Doroneuria theodora</i> )	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598069	A Caddisfly ( <i>Parapsyche elsis</i> )	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 20  Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
												Nest:
Invertebrates	10598070	A Rhyacophilan Caddisfly (Rhyacophila alberta)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598068	A Caddisfly (Arctopsyche grandis)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 7 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598071	A Rhyacophilan Caddisfly (Rhyacophila verrula)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598072	A Caddisfly (Neophylax rickeri)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598073	A Caddisfly (Neothremma alicia)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 23 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
												Nest:
Invertebrates	10598067	A Caddisfly (Micrasema bacro)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 23
												Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598066	A Caddisfly (Brachycentrus americanus)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 26
												Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598057	A Riffle Beetle (Heterolimnius corpulentus)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 64
												Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598064	A Mayfly (Serratella tibialis)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 5
												Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598059	A Mayfly (Ephemerella excrucians)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 11
												Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
												Nest:
Invertebrates	10598061	A Mayfly (Drunella coloradensis)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 18 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598062	A Mayfly (Drunella doddsi)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598063	A Mayfly (Drunella spinifera)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10598058	Hagen's Small Minnow Mayfly (Diphetero hageni)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10572103	Northern Rocky Mountains Refugium Mayfly (Caudatella edmundsi) <b>Potential Species of Concern</b>	Stagliano, David	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek, station PIBO:0227	100			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: 1 individual. Habitat Observation Notes: mainstem cobble substrate sample								Nest:
Invertebrates	10598060	A Mayfly (Caudatella hystrix)	DEQ Personnel	Jun 30, 2004		26D4	Deer Lodge	Warm Springs Creek	300			Unknown Sex: 25 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Invertebrates	10561588	Gillette's Checkerspot (Euphydryas gillettii) <b>Species of Concern</b>	Williams, Ernest	Jul 10, 1996		26D4	Deer Lodge	Silver Lake area, Deer Lodge County	3000			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Natural Heritage Tracker

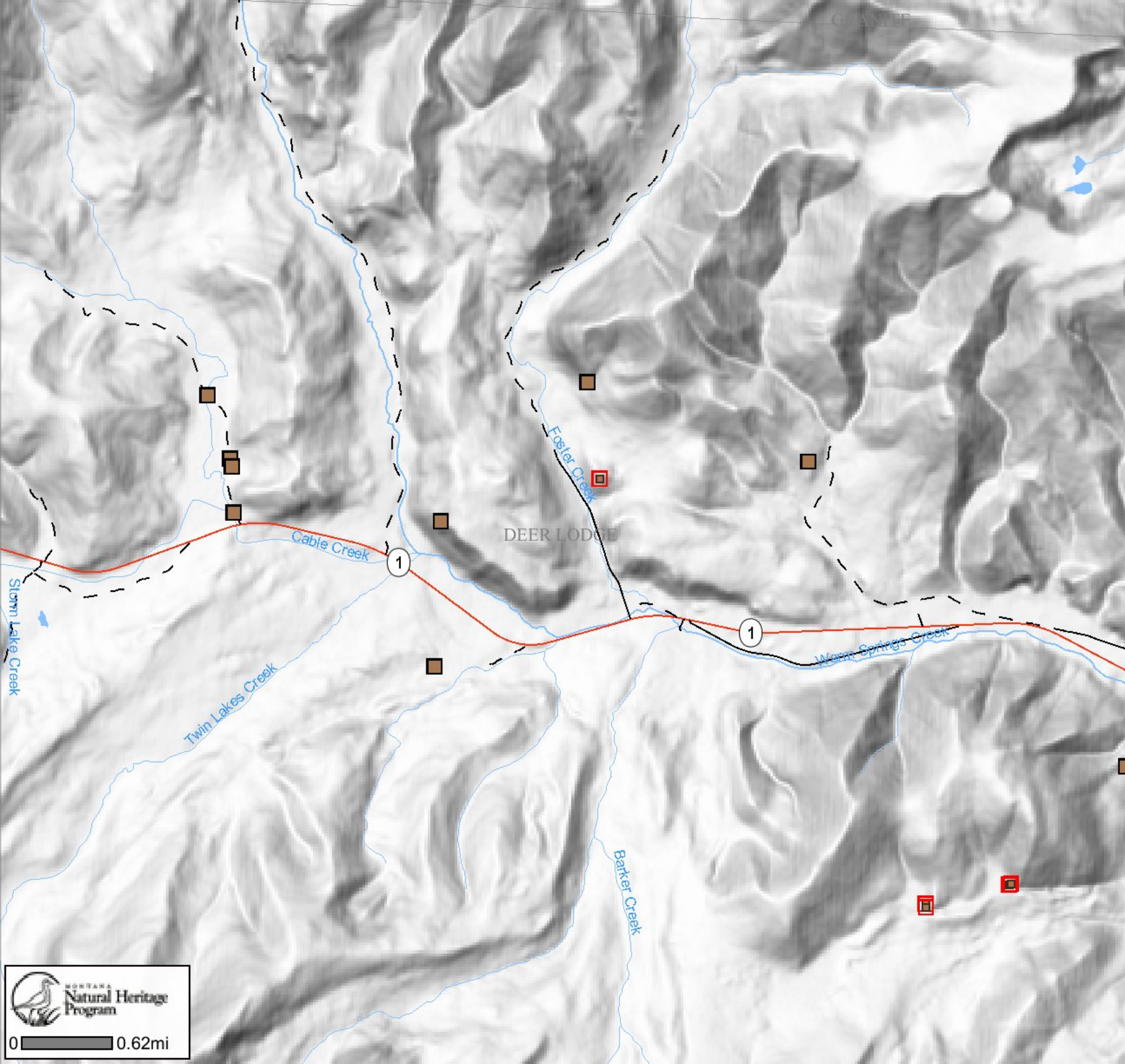
(All Mammals)

**Location**

Latitude	Longitude
46.12798	113.05047
46.21478	113.21648

**Point Observations**

Mammals

 Birds symbols are "pending records"

DISCLAIMER:  
This document was generated from the online Tracker and is intended for information and general planning purposes rather than regulatory decision-making.

The Species Occurrence and Observation databases are a statewide inventory of KNOWN locations and conditions of sensitive species. Parts of the state have not yet been inventoried, thus an "absence of evidence is not evidence of absence." Nor does the presence of one species imply that other species were surveyed for but not found.

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**Natural Heritage Program**

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# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
Mammals												
Mammals	10607038	Northern Flying Squirrel (Glaucomys sabrinus)	Shovlain, Amie	Jul 01, 2009		26D4	Deer Lodge		20		Pending	Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10813337	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813338	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813399	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813392	Long-tailed Vole (Microtus longicaudus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813393	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 24, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1



# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Female								Eggs: Pairs: Nest:
Mammals	10813397	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813394	Long-tailed Vole (Microtus longicaudus)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813400	Long-tailed Vole (Microtus longicaudus)	Kobayashi, Crystal	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813387	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813388	Deer Mouse (Peromyscus maniculatus)	Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Female Pregnant								Nest:
Mammals	10813395	Golden-mantled Ground Squirrel (Spermophilus lateralis)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813396	Golden-mantled Ground Squirrel (Spermophilus lateralis)	Kobayashi, Crystal and Leary, Abby	Jul 25, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813339	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 26, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:
Mammals	10813340	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 26, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: 1 Males: Immature: Females: 1 Eggs: Pairs: Nest:
Mammals	10813398	Deer Mouse (Peromyscus maniculatus)	Kobayashi, Crystal and Leary, Abby	Jul 26, 2009		26D4	Deer Lodge	Garrity WMA	20		Pending	Unknown Sex:  Juveniles: Males: Immature: Females: 1 Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QQLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Female Pregnant								Nest:
Mammals	10611689	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 11, 2009		26D4	Deer Lodge	Cable Creek, Site 1355_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611690	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 11, 2009		26D4	Deer Lodge	Cable Creek, Site 1355_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611681	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611680	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611682	Long-legged Myotis (Myotis volans)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: 1 call sequence definitively identified using Sonobat 3.0. Habitat Observation Notes: Deciduous shrub								Nest:
Mammals	10611 679	Western Small-footed Myotis (Myotis ciliolabrum)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611 677	Big Brown Bat (Eptesicus fuscus)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611 678	Hoary Bat (Lasiurus cinereus) Species of Concern	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611 814	Hoary Bat (Lasiurus cinereus) Species of Concern	Crees, Bo and Nate Kohler	Aug 14, 2009		26D4	Deer Lodge	Stump Town, Site 937_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10553 721	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2006 to Feb 15, 2007		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Fur harvest								Nest:
Mammals	10543362	Marten (Martes americana)	Fur trapper	Dec 01, 2005 to Feb 15, 2006		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10552005	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2004 to Feb 15, 2005		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10550374	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2002 to Feb 15, 2003		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10542833	Marten (Martes americana)	Fur trapper	Dec 01, 2000 to Feb 15, 2001		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10548438	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 1999 to Feb 15, 2000		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Fur harvest								
Mammals	10542764	Marten (Martes americana)	Fur trapper	Dec 01, 1999 to Feb 15, 2000		26D4	Deer Lodge	Furbearer harvest data for Township 005N012W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10557190	Mountain Lion (Puma concolor)	Unknown	Dec 23, 1999 to Jan 22, 2000		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10407464	Canada Lynx (Lynx canadensis) Species of Concern	Capp and Dziak	Jan 05, 1998		26D4	Deer Lodge	Welcome Mountain	1000			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observation data from FWP Report. Sighting								
Mammals	10407578	Canada Lynx (Lynx canadensis) Species of Concern	Dziak, Dave	Feb 28, 1998		26D4	Deer Lodge	Upper Warm Springs Creek	1000			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observation data from Track Survey. Animal identified by Tracks.								
Mammals	10556677	Mountain Lion (Puma concolor)	Unknown	Dec 06, 1998 to Jan 02, 1999		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Hunter harvest.								
Mammals	10407417	Canada Lynx (Lynx canadensis) Species of Concern	Capp	Jan 30, 1997		26D4	Deer Lodge	MT Highway 1	1000			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observation data from FWP Logbook. Sighting, off highway								
Mammals	10556296	Mountain Lion (Puma concolor)	Unknown	Dec 11, 1997		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10556054	Mountain Lion (Puma concolor)	Unknown	Dec 22, 1996		26D4	Deer Lodge	Hunter harvest data for township 005N012W	4827			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10545224	Canada Lynx (Lynx canadensis) Species of Concern	Fur trapper	Dec 01, 1984 to Feb 15, 1985		26D4	Deer Lodge	Furbearer harvest data for township 005N012W	6787			Unknown Sex: 1  Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								



# Natural Heritage Tracker

(All Mammals)

Location

Latitude

Longitude

46.13520

113.14534

46.22214

113.31151

Point Observations

Mammals

Birds

Reptiles

Amphibians

Fish

Invertebrates

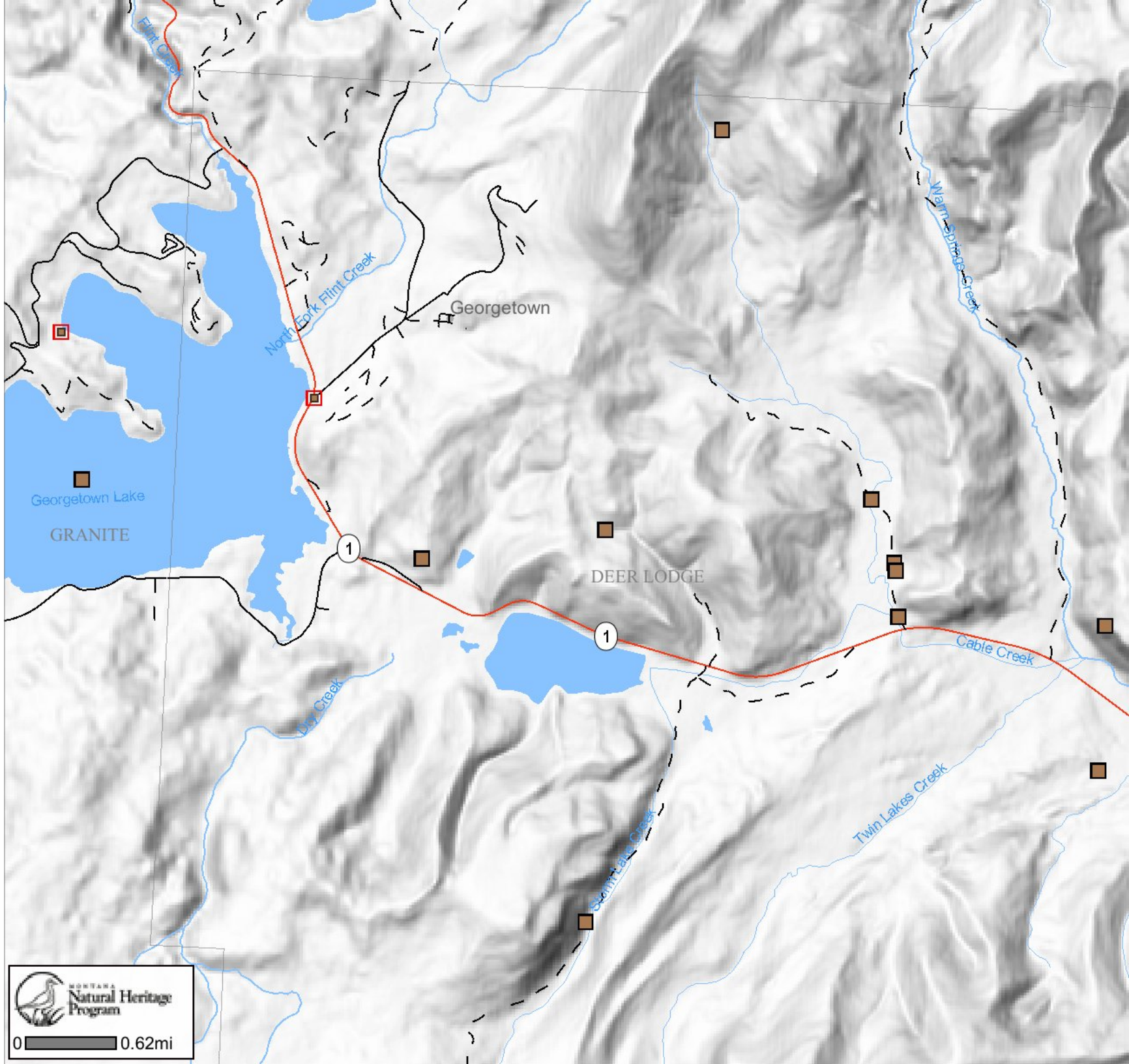
Vascular Plants

Bryophytes

Lichens

Outlined

symbols are "pending records"



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# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
Mammals												
Mammals	10613785	Short-tailed Weasel (Mustela erminea)	Dillon, Greg	Jan 31, 2010		26D3	Deer Lodge	Highway 1 at Georgetown Lake, near the intersection with Discovery Road.	50		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Habitat Observation Notes: Running across the road from the Georgetown Lake side to shrub cover on the opposite side. Ground was snow-covered.								
Mammals	10611689	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 11, 2009		26D4	Deer Lodge	Cable Creek, Site 1355_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: 3 call sequences definitively identified using Sonobat 3.0.								
				Habitat Observation Notes: Deciduous woodland								
Mammals	10611690	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 11, 2009		26D4	Deer Lodge	Cable Creek, Site 1355_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: 2 call sequences definitively identified using Sonobat 3.0.								
				Habitat Observation Notes: Deciduous woodland								
Mammals	10611681	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B2	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: 2 call sequences definitively identified using Sonobat 3.0.								
				Habitat Observation Notes: Deciduous shrub								
Mammals	10611680	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: 8 call sequences definitively identified using Sonobat 3.0.								
				Habitat Observation Notes: Deciduous shrub								
Mammals	10611682	Long-legged Myotis (Myotis volans)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B2	100			Unknown Sex: Juveniles: Males: Immature: Females:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: 1 call sequence definitively identified using Sonobat 3.0. Habitat Observation Notes: Deciduous shrub								Eggs: Pairs: Nest:
Mammals	10611679	Western Small-footed Myotis (Myotis ciliolabrum)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611677	Big Brown Bat (Eptesicus fuscus)	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611678	Hoary Bat (Lasiurus cinereus) Species of Concern	Lenard, Susan	Aug 12, 2009		26D4	Deer Lodge	Cable Creek, Site 1351_B1	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10611821	Little Brown Myotis (Myotis lucifugus)	Lenard, Susan	Aug 14, 2009		26D4	Deer Lodge	Storm Lake Creek, Site 945_02	100			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Mammals	10591085	Northern Flying Squirrel (Glaucomys sabrinus)	Bell, Matthew and Bell, Amber	Aug 09, 2008		26D3	Granite	2.6 miles NNW of Stuart Mill Spring.	50		Pending	Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				<p>Species Observation Notes: Observation at Piney Point Campground. A spread-eagle landing on a tree was observed at night. Skin flaps or "wings" were clearly observed in its telltale landing style.</p> <p>Habitat Observation Notes: Campground consisted of lodgepole pine which were spread out evenly with mature trees being about 5-7 meters apart. There was very little if any understory vegetation.</p>								Nest:
Mammals	10543363	Marten (Martes americana)	Fur trapper	Dec 01, 2005 to Feb 15, 2006		26D4	Deer Lodge	Furbearer harvest data for Township 005N013W	4827			Unknown Sex: 2 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10543237	Marten (Martes americana)	Fur trapper	Dec 01, 2004 to Feb 15, 2005		26D4	Deer Lodge	Furbearer harvest data for Township 005N013W	4827			Unknown Sex: 5 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10552006	Bobcat (Lynx rufus)	Fur trapper	Dec 01, 2004 to Feb 15, 2005		26D4	Deer Lodge	Furbearer harvest data for Township 005N013W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10543125	Marten (Martes americana)	Fur trapper	Dec 01, 2003 to Feb 15, 2004		26D4	Deer Lodge	Furbearer harvest data for Township 005N013W	4827			Unknown Sex: 7 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10542920	Marten (Martes americana)	Fur trapper	Dec 01, 2001 to Feb 15, 2002		26D4	Deer Lodge	Furbearer harvest data for Township 005N013W	4827			Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
				MONT H DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precisi on (Meters )			
				Species Observation Notes: Fur harvest								Nest:
Mammals	10556979	Mountain Lion (Puma concolor)	Unknown	Dec 02, 1999		26D4	Deer Lodge	Hunter harvest data for township 005N013W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10407464	Canada Lynx (Lynx canadensis) Species of Concern	Capp and Dziak	Jan 05, 1998		26D4	Deer Lodge	Welcome Mountain	1000			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observation data from FWP Report. Sighting								
Mammals	10556537	Mountain Lion (Puma concolor)	Unknown	Jan 30, 1998		26D4	Deer Lodge	Hunter harvest data for township 005N013W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10407417	Canada Lynx (Lynx canadensis) Species of Concern	Capp	Jan 30, 1997		26D4	Deer Lodge	MT Highway 1	1000			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Observation data from FWP Logbook. Sighting, off highway								
Mammals	10542590	Marten (Martes americana)	Fur trapper	Dec 01, 1995 to Feb 15, 1996		26D4	Deer Lodge	Furbearer harvest data for Township 005N013W	4827			Unknown Sex: 10 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
				Species Observation Notes: Fur harvest								
Mammals	1055551	Mountain Lion (Puma concolor)	Unknown	Dec 03, 1995 to Jan 28, 1996		26D4	Deer Lodge	Hunter harvest data for township 005N013W	4827			Unknown Sex: 3 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10555438	Mountain Lion (Puma concolor)	Unknown	Dec 17, 1994		26D4	Deer Lodge	Hunter harvest data for township 005N013W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Hunter harvest.								
Mammals	10002448	Yellow-pine Chipmunk (Tamias amoenus)	Thorington, R.W.	Jun 24, 1975		26D3	Granite	Georgetown Lake, Deerlodge Co	5000			Unknown Sex: Juveniles: Males: Immature: Females: 1 Eggs: Pairs: Nest:
				Species Observation Notes: Additional specimen info found in D03USN02MTUS								
Mammals	10543601	Wolverine (Gulo gulo) <b>Species of Concern</b>	Fur trapper	Dec 01, 1975 to Feb 15, 1976		26D4	Deer Lodge	Furbearer harvest data for Township 005N013W	4827			Unknown Sex: 1 Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
				Species Observation Notes: Fur harvest								
Mammals	10009164	Red Squirrel (Tamiasciurus hudsonicus)	Cipolato, H.	Oct 27, 1965		26D4	Deer Lodge	Daily Gulch btwn Silver & Georgetown Lake	2000			Unknown Sex: Juveniles: Males: 1 Immature: Females: Eggs: Pairs: Nest:

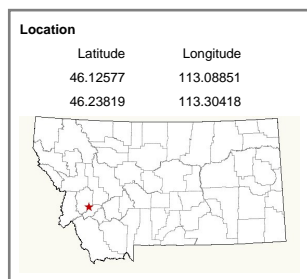
# Details

TAXA	ID	Common Name (Scientific Name)	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
				MONTH DAY YEAR	Notes	LL QLL QLL	COUNTY	Comments	Spatial Precision (Meters)			
Mammals	10010481	Deer Mouse (Peromyscus maniculatus)	Dyche, L.L.	Aug 13, 1894		26D4	Deer Lodge	Anaconda, 20 mi WNW of; near Cable, Montana Post Office	2000			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:



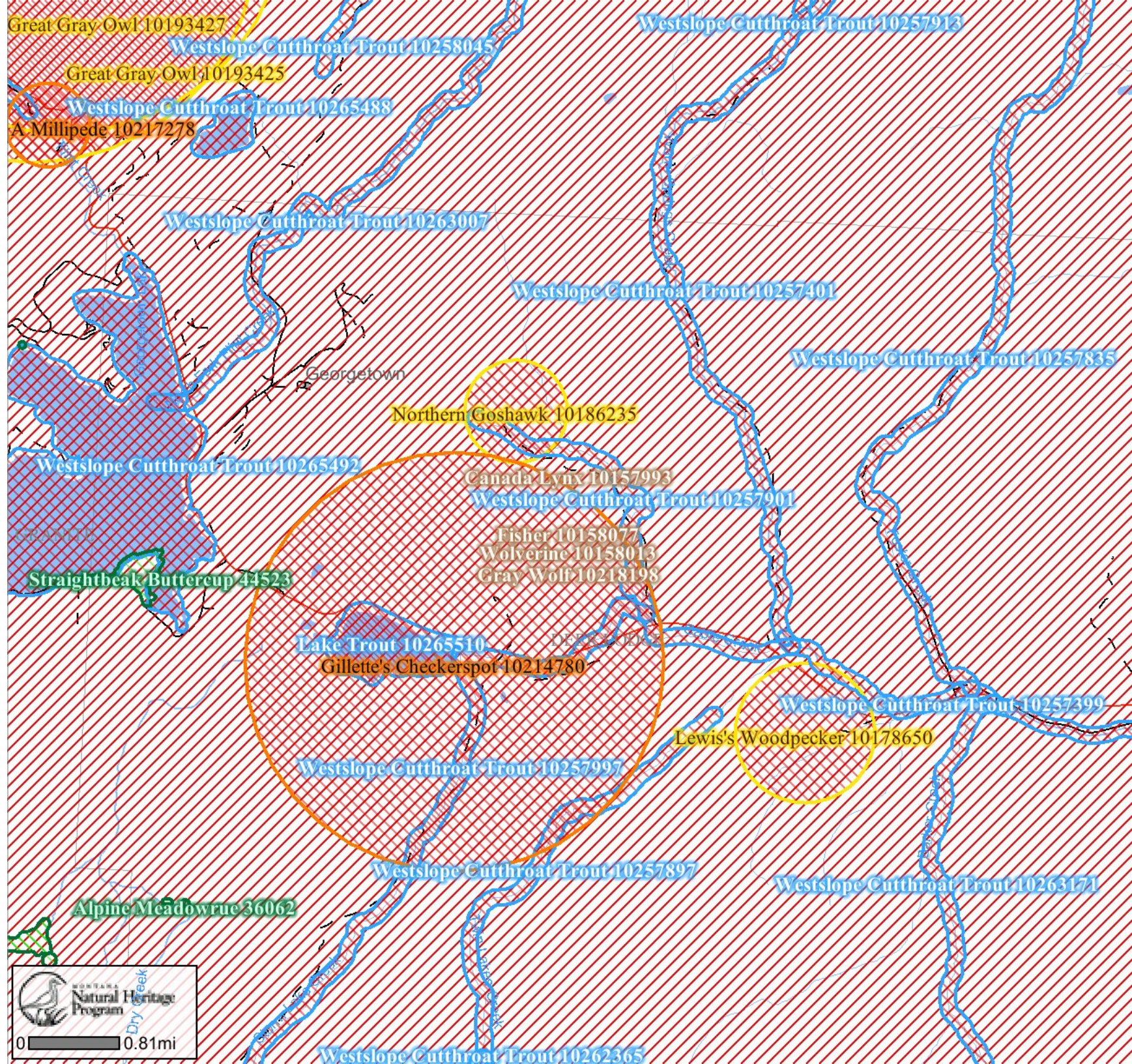
# Natural Heritage Tracker

(SOC = 'SOC')



## Species Occurrences (SO)

- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens



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# Species List with Species Occurrences and Observation Details

## Mammals - Canada Lynx (*Lynx canadensis*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G5	S3		THREATENED	SPECIAL STATUS	LT	Listed as Threatened on March 24th, 2000. Critical Habitat designated on September 9th, 2006.	SOC	1
Delineation Criteria:					Comments:			Last Updated::
Confirmed area of occupancy based on the documented presence of adults or juveniles within tracking regions containing core habitat for the species. Outer boundaries of tracking regions are defined by areas of forest cover on individual mountain ranges or clusters of adjacent mountain ranges with continuous forest cover.					The summary for each tracking region includes the total number of observations of the species, the earliest date of observation of the species, and the latest date of observation of the species.			Dec 27, 2007

### Species Occurrence 10157993

**Location:** Sapphire, Pintler, Flint Creek **Acreage:** 1,803,113

**Survey Date:** **First Observation:** 1962 **Last Observation:** 1998

**SO\_Data:** The Sapphire, Pintler, Flint Creek, and John Long mountain ranges have relatively continuous habitat for this species. Point observation records are summarized for this entire region and are summarized as follows (observations included animals and animal sign):<br>Pre-1970 = 1 harvest records, 0 observations<br>1970s = 5 harvest records, 1 observations<br>1980s = 37 harvest records, 32 observations<br>1990s = 1 harvest records, 20 observations<br>2000s = 0 harvest records, 0 observations (current to winter 2006-07)

## Mammals - Fisher (*Martes pennanti*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G5	S3		SENSITIVE	SENSITIVE		The West Coast DPS of the fisher has been added to the candidate species list (Federal Register, 15 April 2004).	SOC	2
Delineation Criteria:					Comments:			Last Updated::
Confirmed area of occupancy based on the documented presence of adults or juveniles within tracking regions containing core habitat for the species. Outer boundaries of tracking regions are defined by areas of forest cover on individual mountain ranges or clusters of adjacent mountain ranges with continuous forest cover.					The summary for each tracking region includes the total number of observations of the species, the earliest date of observation of the species, and the latest date of observation of the species.			Dec 27, 2007

### Species Occurrence 10158077

**Location:** Pintler, Sapphire, John Long a **Acreage:** 1,803,113

**Survey Date:** **First Observation:** 1983 **Last Observation:** 2005

**SO\_Data:** The Sapphire, Pintler, John Long and Flint Creek mountain ranges have relatively continuous habitat for this species. Point observation records are summarized for this entire region and are summarized as follows (observations included animals and animal sign):<br>Pre-1970 = 0 harvest records, 1 observation<br>1970s = 0 harvest records, 0 observations<br>1980s = 8 harvest records, 10 observations<br>1990s = 1 harvest records, 1 observations<br>2000s = 1 harvest records, 1 observations (current to winter 2007-08)

## Mammals - Wolverine (*Gulo gulo*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G4	S3		SENSITIVE	SENSITIVE			SOC	2
Delineation Criteria:					Comments:			Last Updated::
Confirmed area of occupancy based on the documented presence of adults or juveniles within tracking regions containing core habitat for the species. Outer boundaries of tracking regions are defined by areas of forest cover on individual mountain ranges or clusters of adjacent mountain ranges with continuous forest cover.					The summary for each tracking region includes the total number of observations of the species, the earliest date of observation of the species, and the latest date of observation of the species.			Dec 27, 2007

### Species Occurrence 10158013

**Location:** Pintler, Flint, Sapphire, and **Acreage:** 1,803,113

**Survey Date:** **First Observation:** 1948 **Last Observation:** 2004

**SO\_Data:** The Pintler, Flint, Sapphire, and John Long mountain ranges have relatively continuous habitat for this species. Point observation records are summarized for this entire region and are summarized as follows (observations included animals and animal sign):<br>Pre-1970 = 1 harvest records, 2 observations<br>1970s = 7 harvest records, 0 observations<br>1980s = 3 harvest records, 8 observations<br>1990s = 4 harvest records, 0 observations<br>2000s = 5 harvest records, 0 observations (current to winter 2006-07)

## Birds - Great Gray Owl (*Strix nebulosa*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierD
G5	S3			SENSITIVE			SOC	2
Delineation Criteria:					Comments:			Last Updated::
Confirmed nesting area buffered by a minimum distance of 3,200 meters in order to encompass the known foraging distance and area likely to be used for re-nesting and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters.								Jan 04, 2008

### Species Occurrence 10193425

**Location:** **Acreage:** 7,909

**Survey Date:** **First Observation:** 1993-05-01 **Last Observation:** 1993-05-31

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION					TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL	COUNTY	Comments	Spatial Precision				



ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precisio n (Meters)			
18575	Hinkle, Chuck	May 01, 1993 to May 31, 1993	May 1993.	26D1	Granite	Forest Service Road 1578, near Sawmill Creek, 4.5 miles S of Philipsburg	500	B		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest: 1
Species Observation Notes: Occupied owl nest.										

### Species Occurrence 10193427

Location: Acreage: 7,909

Survey Date: First Observation: 1993-07-14 Last Observation: 1993-07-14

SO\_Data:

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precisio n (Meters)			
48647	Stoecker, Don	Jul 14, 1993		26D1	Granite	Placid Lake	1153	B		Unknown Sex: 1 Juveniles: 1 Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Adult with young.										

### Birds - Lewis's Woodpecker (*Melanerpes lewis*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_Tierl D
G4	S2B						SOC	2
Delineation Criteria:						Comments:		Last Updated::
Confirmed breeding area based on the presence of a nest, chicks, or territorial adults during the breeding season. Point observation location is buffered by a minimum distance of 100 meters in order to encompass the likely foraging area used by breeding adults around the nest tree and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters.								Dec 28, 2007

### Species Occurrence 10178650

Location: Acreage: 772

Survey Date: First Observation: 1994-07-18 Last Observation: 1994-07-18

SO\_Data:

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precisio n (Meters)			
21007	Stoecker, Don	Jul 18, 1994		26D4	Deer Lodge	Anaconda, on old road W of town	1000	b		Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:

### Birds - Northern Goshawk (*Accipiter gentilis*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_Tierl D
G5	S3			SENSITIVE			SOC	2
Delineation Criteria:						Comments:		Last Updated::
Confirmed nesting area buffered by a minimum distance of 750 meters in order to encompass the area around the nest known to be defended by adults and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters.								Jan 02, 2008

### Species Occurrence 10186235

Location: Acreage: 417

Survey Date: First Observation: 1994-07-13 Last Observation: 1994-07-13

SO\_Data:

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precisio n (Meters)			
15227	Balcomb, Janissa	Jul 13, 1994		26D4	Deer Lodge	Cable Creek area	500	B		Unknown Sex: Juveniles: 1

ID	OBSERVERS	OBSERVATION DATE		LOCATION			TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments			
		Species Observation Notes: 1 adult actively defending nest and 1 juvenile in nest half feathered/half downy.  Habitat Observation Notes: Nest tree is a lodgepole pine, 20-22 meters tall with 30cm DBH. The nest is about 6 meters above ground on a large branch amidst a large mistletoe.							Males: Immature: Females: 1  Eggs: Pairs: Nest: 1

### Fish - Bull Trout (*Salvelinus confluentus*)

GRANK	SRANK	SO_Rank	FS	BLM	USES A	USES A_COM	SOC	CFWCS_TierI D
G3	S2		THREATENED	SPECIAL STATUS	LT	Listed as Threatened on June 10th, 1998. Critical Habitat designated on September 26th, 2005.	SOC	1
Delineation Criteria:					Comments:			Last Updated::
Stream reaches and standing water bodies where the species presence has been confirmed through direct capture or where they are believed to be present based on the professional judgement of a fisheries biologist due to confirmed presence in adjacent areas. In order to reflect the importance of adjacent terrestrial habitats to survival, stream reaches are buffered 100 meters, standing water bodies greater than 1 acre are buffered 50 meters, and standing water bodies less than 1 acre are buffered 30 meters into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards.					Because streams are a line feature in the GIS, they were buffered by the following standard distances in order to approximate stream widths: 10 meters (i.e. 20 meters total width) on small streams (category 3, 4, and 5 streams in the Montana Fisheries Information System (MFISH)), 40 meters (i.e. 80 meters total width) on medium sized rivers (category 2 streams in MFISH), and 150 meters (i.e. 300 meters total width) for large rivers (category 1 streams in MFISH).			Mar 23, 2006

#### Species Occurrence 10120296

Location: Acreage: 163

Survey Date: First Observation: Last Observation:

SO\_Data:

### Invertebrates - A Millipede (*Lophomus laxus*)

GRANK	SRANK	SO_Rank	FS	BLM	USES A	USES A_COM	SOC	CFWCS_TierI D
G1G3	S1S3						SOC	
Delineation Criteria:					Comments:			Last Updated::
Confirmed breeding area based on the presence of a resident animal of any age. Point observation location is buffered by a minimum distance of 100 meters in order to encompass the home range of the individual as well as adjacent habitat likely to support other individuals and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters.								Jan 31, 2008

#### Species Occurrence 10217278

Location: Acreage: 278

Survey Date: First Observation: 1965-08-06 Last Observation: 1965-08-06

SO\_Data:

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precisio n (Meters)			
585520	Schmitt, Rupert	Aug 06, 1965		26D3	Granite	Flint Creek Camp, 2 miles NW of Georgetown Lake	600			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
		Species Observation Notes: Specimen(s) collected from location (it appears that a typographical error occurred in the source such that the number collected is unknown although the word "males" appears in the text apparently unlinked to any other specimen). Habitat Observation Notes: Base of a rock slide in humus covered in moss, spruce, gooseberry, thimbleberry and meadow rue.								

### Invertebrates - Gillette's Checkerspot (*Euphydryas gillettii*)

GRANK	SRANK	SO_Rank	FS	BLM	USES A	USES A_COM	SOC	CFWCS_TierI D
G2G3	S2						SOC	
Delineation Criteria:					Comments:			Last Updated::
Confirmed breeding area based on the presence of a resident animal of any age/stage. Point observation location is buffered by a minimum distance of 2,000 meters in order to encompass documented travel distances of some butterfly species as well as adjacent habitat likely to support other individuals and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters.								Jan 16, 2008

#### Species Occurrence 10214780

Location: Acreage: 6,951

Survey Date: First Observation: 1996-07-10 Last Observation: 1996-07-10

SO\_Data:

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH		LL QLL			Spatial Precisio			

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precisio n (Meters)			
561588	Williams, Ernest	Jul 10, 1996		26D4	Deer Lodge	Silver Lake area, Deer Lodge County	3000			Unknown Sex: Juveniles: Males: Immature: Females: Eggs: Pairs: Nest:
Species Observation Notes: Presence noted.										

### Vascular Plants - Alpine Meadowrue (*Thalictrum alpinum*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_Tierl D
G5	S2	BC	SENSITIVE	SENSITIVE			SOC	
Delineation Criteria:					Comments:			Last Updated::
Individual occurrences are generally based upon a discretely mapped area provided by an observer and are not separated by any pre-defined distance. Individual clusters of plants mapped at fine spatial scales (separated by less than approximately 25-50 meters) may be grouped together into one occurrence if they are not separated by distinct areas of habitat or terrain features. Point observations are buffered to encompass any locational uncertainty associated with the observation.					Occurrences typically do not correspond to biological populations.			

### Species Occurrence 36061

**Location:** Darby Meadow **Acreage:** 2

**Survey Date:** Jul 22 1994 12:00AM **First Observation:** Jul 22 1994 12:00AM **Last Observation:** Jul 22 1994 12:00AM

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precisio n (Meters)			
4208	Sweet, Kathy	Jul 22, 1994	1994-07-22	26D3	Deer Lodge		0			Positive Obs: True
Species Observation Notes: Numerous patches in 2 separate areas; vegetative, past flowering.										Survey Comments: This swale is dried up gby this time of year - Numerous patches of plants found on both sides of FS road 8470. The acreage could easily be more than 2-3 acres on this private ground. Surveyed the area quickly, so am not sure of extent of this plant.
Coverages: Light Exposure: Open Moisture: Dried up this time of year Soil Texture: Acidic soil										Survey Effort: Moderate - Observations based on a survey in which some but not most of the potentially suitable habitat was surveyed
										Ownership Comments: Private
										Directions: T4NR13WS6N1/2; FS Road 8470 crosses Darby Meadow - plants are within 50 feet of the road.

### Species Occurrence 36062

**Location:** Darby Meadow **Acreage:** 2

**Survey Date:** Jul 22 1994 12:00AM **First Observation:** Jul 22 1994 12:00AM **Last Observation:** Jul 22 1994 12:00AM

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precisio n (Meters)			
4209	Sweet, Kathy	Jul 22, 1994	1994-07-22	26D3	Deer Lodge		0			Positive Obs: True
										Survey Comments: This swale is dried up gby this time of year - Numerous patches of plants found on both sides of FS road 8470. The acreage could easily be more than 2-3 acres on this private ground. Surveyed the area quickly, so am not sure of extent of this plant.
										Survey Effort: Moderate - Observations based on a survey in which some but not most of the potentially suitable habitat was surveyed

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precision (Meters)			
		Species Observation Notes: Numerous patches in 2 separate areas; vegetative, past flowering.  Coverages: Light Exposure: Open Moisture: Dried up this time of year Soil Texture: Acidic soil								Ownership Comments: Private  Directions: T4NR13WS6N1/2; FS Road 8470 crosses Darby Meadow - plants are within 50 feet of the road.

### Species Occurrence 57027

**Location:** Peterson Meadow **Acreage:** 66

**Survey Date:** Jul 9 1993 12:00AM **First Observation:** Jul 9 1993 12:00AM **Last Observation:** Jul 9 1993 12:00AM

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precisio n (Meters)			
4205	Lackschewitz, Klaus H.	Jul 09, 1993	1993-07-09	26D3	Granite		0			Positive Obs: True  Survey Comments: 7200 ft.  Survey Effort: Low - Specimen records or other observations in which a survey of the suitable habitat did not occur  Collections: Lackschewitz, K.H. #11967 and G. Lackschewitz. MONTU #.  Internal Comments: Specimen not found in online UofM herbarium.  Directions: T4NR14WS1SW; Peterson Meadows, Anaconda - Pintler Range, Granite Co.
		Species Observation Notes: Widespread.  Habitat Observation Notes: Between Potentilla fruticosa bushes in meadow.								

### Vascular Plants - Northern Buttercup (*Ranunculus pedatifidus*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_Tierl D
G5	S1	U		SENSITIVE			SOC	
Delineation Criteria:					Comments:			Last Updated::
Individual occurrences are generally based upon a discretely mapped area provided by an observer and are not separated by any pre-defined distance. Individual clusters of plants mapped at fine spatial scales (separated by less than approximately 25-50 meters) may be grouped together into one occurrence if they are not separated by distinct areas of habitat or terrain features. Point observations are buffered to encompass any locational uncertainty associated with the observation.					Occurrences typically do not correspond to biological populations.			

### Species Occurrence 45256

**Location:** Peterson Meadow **Acreage:** 66

**Survey Date:** Aug 12 1993 12:00AM **First Observation:** Aug 12 1993 12:00AM **Last Observation:** Aug 12 1993 12:00AM

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QLL L	COUNTY	Comments	Spatial Precisio n (Meters)			
4206	Lackschewitz, Klaus H.	Aug 12, 1993	1993-08-12	26D3	Granite		0			Positive Obs: True  Survey Comments: T04N R14W S1 SW 1/4, at 7200 ft.  Survey Effort: Low - Specimen records or other observations in which a survey of the suitable habitat did not occur

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precision (Meters)			
		Species Observation Notes: Widely distributed. Flowering. Habitat Observation Notes: The site is a meadow.								Collections: Lackschewitz, K. H. (12024). 1993. MONTU 118511, 118512, 118569.  Directions: Granite County on land administered by the Beaverhead-Deerlodge National Forest Philipsburg Ranger District. The site is in Peterson Meadow, about 3.5 air miles south of Georgetown Lake.

### Vascular Plants - Simple Kobresia (*Kobresia simpliciuscula*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierI D
G5	S2	U		SENSITIVE			SOC	
Delineation Criteria:					Comments:			Last Updated::
Individual occurrences are generally based upon a discretely mapped area provided by an observer and are not separated by any pre-defined distance. Individual clusters of plants mapped at fine spatial scales (separated by less than approximately 25-50 meters) may be grouped together into one occurrence if they are not separated by distinct areas of habitat or terrain features. Point observations are buffered to encompass any locational uncertainty associated with the observation.					Occurrences typically do not correspond to biological populations.			

#### Species Occurrence 45259

**Location:** Peterson Meadow **Acreage:** 66

**Survey Date:** Sep 7 1993 12:00AM **First Observation:** Sep 7 1993 12:00AM **Last Observation:** Sep 7 1993 12:00AM

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precisio n (Meters)			
4207	Lackschewitz, Klaus H.	Sep 07, 1993	1993-09-07	26D3	Granite		0			Positive Obs: True
		Species Observation Notes: Extensive occurrence. Habitat Observation Notes: Mostly near sedges, sometimes near Juncus balticus.								Survey Comments: T04N R14W S1 SW 1/4.  Survey Effort: Low - Specimen records or other observations in which a survey of the suitable habitat did not occur  Collections: Lackschewitz, K.H. (12053) and K. Law. 1993. MONTU 118517.

### Vascular Plants - Straightbeak Buttercup (*Ranunculus orthorhynchus*)

GRANK	SRANK	SO_Rank	FS	BLM	USESA	USESA_COM	SOC	CFWCS_TierI D
G5	S1	H					SOC	
Delineation Criteria:					Comments:			Last Updated::
Individual occurrences are generally based upon a discretely mapped area provided by an observer and are not separated by any pre-defined distance. Individual clusters of plants mapped at fine spatial scales (separated by less than approximately 25-50 meters) may be grouped together into one occurrence if they are not separated by distinct areas of habitat or terrain features. Point observations are buffered to encompass any locational uncertainty associated with the observation.					Occurrences typically do not correspond to biological populations.			

#### Species Occurrence 44523

**Location:** Georgetown Lake **Acreage:** 100

**Survey Date:** Jul 16 1966 12:00AM **First Observation:** Jul 16 1966 12:00AM **Last Observation:** Jul 16 1966 12:00AM

**SO\_Data:**

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYP E	PENDIN G	Additional Info
		MONTH DAY YEAR	Notes	LL QLL QQL L	COUNTY	Comments	Spatial Precisio n (Meters)			
979	Bahm, D	Jul 16, 1966	1966-07-16	26D3	Deer Lodge		0			Positive Obs: True

ID	OBSERVERS	OBSERVATION DATE		LOCATION				TYPE	PENDING	Additional Info
		MONTH DAY YEAR	Notes	LL QQL QQL L	COUNTY	Comments	Spatial Precision (Meters)			
			Species Observation Notes: Fruiting and flowering. Corolla yellow. Habitat Observation Notes: The site is a campground area on the south side of Georgetown Lake.							<p>Survey Comments: At 6300 ft.</p> <p>Survey Effort: Low - Specimen records or other observations in which a survey of the suitable habitat did not occur</p> <p>Collections: Bahm, D. (s.n.). 1966. MONTU 099359.</p> <p>Internal Comments: SO 1 &amp; 3 / ObsID 979 &amp; 8401.</p> <p>Directions: Granite and Deer Lodge Counties on land administered by the Beaverhead-Deerlodge National Forest Philipsburg Ranger District, Montana Fish, Wildlife and Parks, and on private land. These sites (south side campgrounds) are accessible via State Highway 1, 15 miles west of Anaconda or 14 miles south of Philipsburg. FR 672 will take you from State Highway 1 to the campground areas.</p>



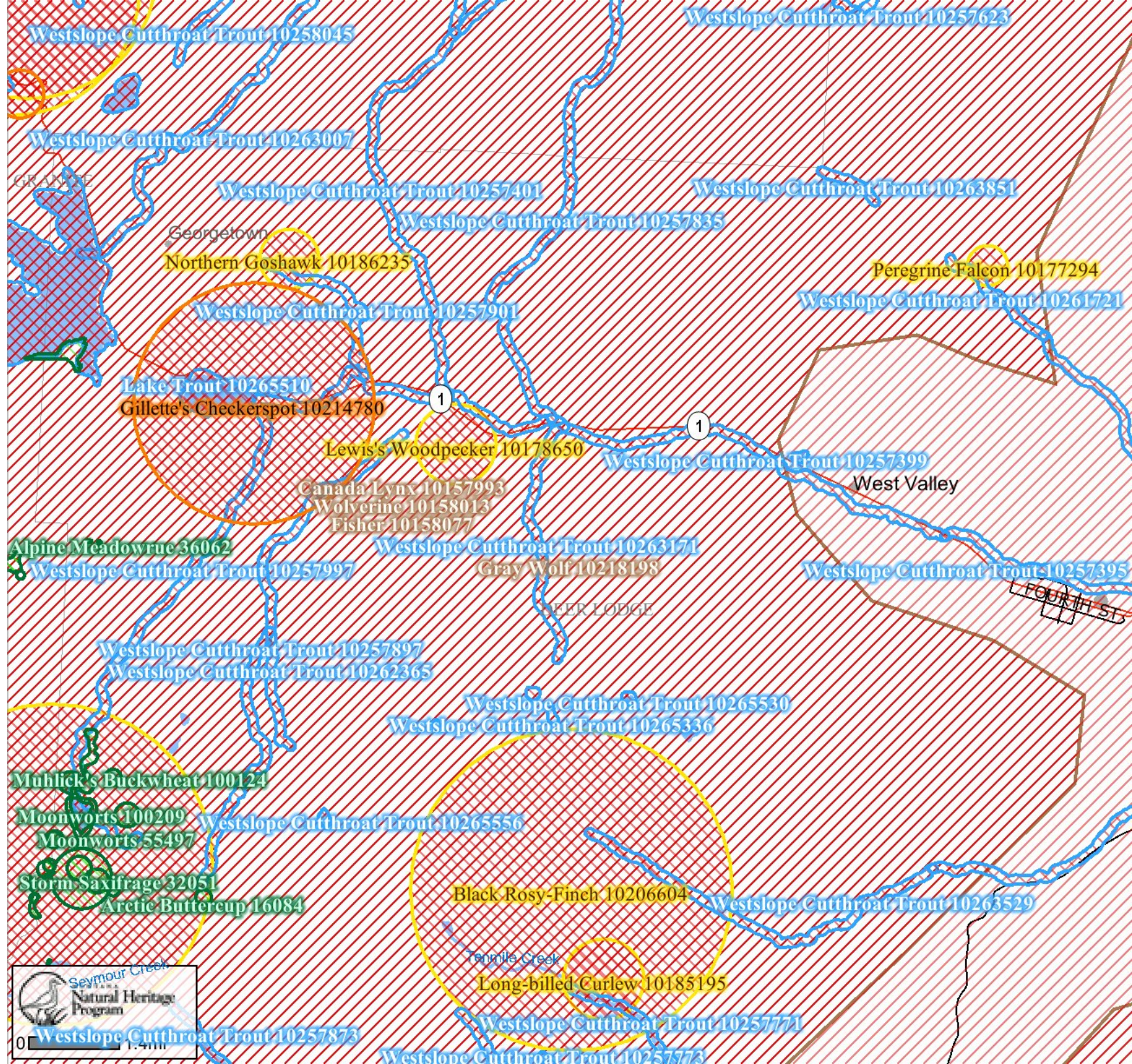
# Natural Heritage Tracker

(SOC = 'SOC')



## Species Occurrences (SO)

- Mammals
- Birds
- Reptiles
- Amphibians
- Fish
- Invertebrates
- Vascular Plants
- Bryophytes
- Lichens



**DISCLAIMER:**  
This document was generated from the online Tracker and is intended for information and general planning purposes rather than regulatory decision-making.

The Species Occurrence and Observation databases are a statewide inventory of KNOWN locations and conditions of sensitive species. Parts of the state have not yet been inventoried, thus an "absence of evidence is not evidence of absence." Nor does the presence of one species imply that other species were surveyed for but not found.





## Species List

**Mammals - Canada Lynx** (*Lynx canadensis*)

**Mammals - Dwarf Shrew** (*Sorex nanus*)

**Mammals - Fisher** (*Martes pennanti*)

**Mammals - Gray Wolf** (*Canis lupus*)

**Mammals - Wolverine** (*Gulo gulo*)

**Birds - Black Rosy-Finch** (*Leucosticte atrata*)

**Birds - Lewis's Woodpecker** (*Melanerpes lewis*)

**Birds - Long-billed Curlew** (*Numenius americanus*)

**Birds - Northern Goshawk** (*Accipiter gentilis*)

**Birds - Peregrine Falcon** (*Falco peregrinus*)

**Fish - Bull Trout** (*Salvelinus confluentus*)

**Fish - Lake Trout** (*Salvelinus namaycush*)

**Fish - Westslope Cutthroat Trout** (*Oncorhynchus clarkii lewisi*)

**Invertebrates - Gillette's Checkerspot** (*Euphydryas gillettii*)

**Vascular Plants - Alpine Meadowrue** (*Thalictrum alpinum*)

**Vascular Plants - Arctic Buttercup** (*Ranunculus grayi*)

**Vascular Plants - Cascades Willow** (*Salix cascadenensis*)

**Vascular Plants - Coastal Sand Sedge** (*Carex incurviformis*)

**Vascular Plants - Dense-leaved Pussytoes** (*Antennaria densifolia*)

**Vascular Plants - Kruckeberg's Swordfern** (*Polystichum kruckebergii*)

**Vascular Plants - Low Spike-moss** (*Selaginella selaginoides*)

**Vascular Plants - Moonworts** (*Botrychium* sp. (SOC))

**Vascular Plants - Muhlick's Buckwheat** (*Eriogonum capistratum* var. *muhlickii*)

**Vascular Plants - Northern Buttercup** (*Ranunculus pedatifidus*)

**Vascular Plants - Simple Kobresia** (*Kobresia simpliciuscula*)

**Vascular Plants - Steven's Scandinavian Sedge** (*Carex stevenii*)

**Vascular Plants - Storm Saxifrage** (*Saxifraga tempestiva*)

**Vascular Plants - Straightbeak Buttercup** (*Ranunculus orthorhynchus*)

**Vascular Plants - Thick-leaf Whitlow-grass** (*Draba crassa*)

**Vascular Plants - Weber's Saw-wort** (*Saussurea weberi*)

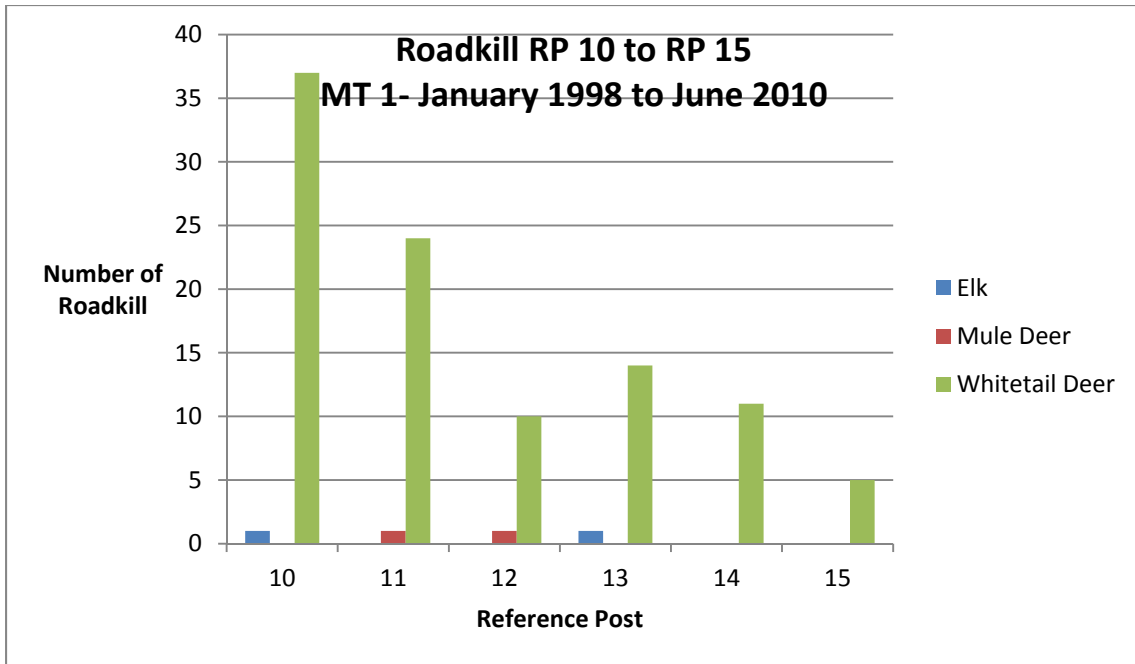
**Deerlodge County**

<b>Species</b>	<b>Scientific Name</b>	<b>Known</b>	<b>Suspected</b>
American Marten	<i>Martes americana</i>	x	
Badger	<i>Taxidea taxus</i>	x	
Beaver	<i>Castor canadensis</i>	x	
Big Horn Sheep	<i>Orvis canadensis</i>	x	
Black Bear	<i>Ursus americanus</i>	x	
Bobcat	<i>Lynx rufus</i>	x	
Columbian Ground Squirrel	<i>Spermophilus columbianus</i>	x	
Coyote	<i>Canis latrans</i>	x	
Deer Mouse	<i>Peromyscus maniculatus</i>	x	
Elk	<i>Cervus elaphus</i>	x	
Golden-mantled Ground Squirrel	<i>Spermophilus lateralis</i>	x	
Gray Wolf	<i>Canis lupus</i>	x	
Long-tailed Vole	<i>Microtus longicaudus</i>	x	
Long-tailed Weasel	<i>Mustela frenata</i>	x	
Lynx	<i>Lynx canadensis</i>	x	
Masked (Common) Shrew	<i>Sorex cinereus</i>	x	
Mink	<i>Mustela vison</i>	x	
Moose	<i>Alces alces</i>	x	
Mountain Cottontail	<i>Sylvilagus nuttallii</i>	x	
Mountain Goat	<i>Oreamnos americanus</i>	x	
Mountain Lion	<i>Puma concolor</i>	x	
Mule Deer	<i>Odocoileus hemionus</i>	x	
Muskrat	<i>Ondatra zibethicus</i>	x	
Northern Pocket Gopher	<i>Thomomys talpoides</i>	x	
Northern Grasshopper Mouse	<i>Onychomys leucogaster</i>	x	
Pronghorn	<i>Antilocapra americana</i>	x	
Raccoon	<i>Procyon lotor</i>	x	
Red Fox	<i>Vulpes vulpes</i>	x	
Red Squirrel	<i>Tamiasciurus hudsonicus</i>	x	
Red-tailed Chipmunk	<i>Tamias ruficaudus</i>	x	
Short-tailed Weasel	<i>Mustela erminea</i>	x	
Southern Red-backed Vole	<i>Clethrionomys gapperi</i>	x	
White-tailed deer	<i>Odocoileus virginianus</i>	x	
Wolverine	<i>Gulo gulo</i>	x	
Yellow-bellied Marmot	<i>Marmota flaviventris</i>	x	
Big Brown Bat	<i>Eptesicus fuscus</i>		x
Bushy-tailed Woodrat	<i>Neotoma cinerea</i>		x
Fringed Myotis	<i>Myotis thysanodes</i>		x
Heather Vole	<i>Phenacomys intermedius</i>		x
Hoary Bat	<i>Lasiurus cinereus</i>		x
House Mouse	<i>Mus musculus</i>		x
Little Brown Myotis	<i>Myotis lucifugus</i>		x
Long-eared Myotis	<i>Myotis evotis</i>		x
Long-legged Myotis	<i>Myotis volans</i>		x
Meadow Vole	<i>Microtus pennsylvanicus</i>		x
Montane Shrew (Dusky Shrew)	<i>Sorex monticolus</i>		x
Montane Vole	<i>Microtus montanus</i>		x
Northern Flying Squirrel	<i>Glaucomys sabrinus</i>		x
Northern River Otter	<i>Lontra canadensis</i>		x
Northern Water Shrew	<i>Sorex palustris</i>		x
Pika	<i>Ochotona princeps</i>		x
Porcupine	<i>Erethizon dorsatum</i>		x
Preble's Shrew	<i>Sorex preblei</i>		x

Pygmy Shrew	Sorex hoyi	x
Silver-haired Bat	Lasionycteris noctivagans	x
Snowshoe Hare	Lepus americanus	x
Striped Skunk	Mephitis mephitis	x
Townsend's Big-Eared Bat	Corynorhinus townsendii	x
Vagrant Shrew	Sorex vagrans	x
Water Vole	Microtus richardsoni	x
Western Jumping Mouse	Zapus princeps	x
Western Small-footed Myotis	Myotis ciliolabrum	x
White-tailed Jakrabbbit	Lepus townsendii	x
Yellow-pine Chipmunk	Tamias amoenus	x
Yuma Myotis	Myotis yumanensis	x

DATE	SYSTEM  "-  ROUTE	MILEPOST	DECODE(ANIMAL,1,'ANTELOPE';2,'	DECODE(SEX,1,'MALE';2,'FEMALE'	DECODE(LIGHT_COND,1,'DAY';2,'N	COMMENTS
1/19/2005	P-1	10	Whitetail Deer	Yearling	Unknown	HAD 2 FAWNS UNBORN
4/26/2005	P-1	10	Whitetail Deer	Female	Unknown	
8/31/2006	P-1	10	Whitetail Deer	Yearling	Unknown	
3/8/2000	P-1	10	Whitetail Deer	Yearling	Unknown	
2/28/2005	P-1	10	Whitetail Deer	Yearling	Unknown	
4/25/2005	P-1	10	Whitetail Deer	Female	Unknown	
10/1/2005	P-1	10	Whitetail Deer	Female	Unknown	
3/27/2006	P-1	10.1	Whitetail Deer	Female	Unknown	
10/24/1999	P-1	10.1	Whitetail Deer	Yearling	Night	
11/26/2006	P-1	10.1	Whitetail Deer	Yearling	Unknown	
2/12/2007	P-1	10.1	Whitetail Deer	Female	Unknown	
8/6/2007	P-1	10.1	Whitetail Deer	Yearling	Unknown	
9/15/2005	P-1	10.1	Whitetail Deer	Yearling	Unknown	
3/6/2006	P-1	10.2	Whitetail Deer	Female	Unknown	
10/27/1999	P-1	10.2	Whitetail Deer	Female	Day	
4/3/2008	P-1	10.2	Whitetail Deer	Female	Unknown	
8/28/2006	P-1	10.3	Whitetail Deer	Yearling	Unknown	
10/19/2005	P-1	10.3	Whitetail Deer	Yearling	Unknown	
9/29/2003	P-1	10.3	Whitetail Deer	Yearling	Unknown	
7/27/2005	P-1	10.3		Yearling	Unknown	
6/7/2005	P-1	10.3	Whitetail Deer	Female	Unknown	
1/11/2008	P-1	10.4	Whitetail Deer	Female	Unknown	
3/13/2007	P-1	10.4	Whitetail Deer	Yearling	Unknown	
1/26/2000	P-1	10.4	Whitetail Deer	Yearling	Night	
3/20/2008	P-1	10.4	Whitetail Deer	Female	Unknown	
3/9/2007	P-1	10.5	Whitetail Deer	Yearling	Unknown	
3/16/2008	P-1	10.5	Whitetail Deer	Female	Unknown	
2/21/2007	P-1	10.6	Whitetail Deer	Female	Unknown	
1/6/2006	P-1	10.6	Whitetail Deer	Female	Unknown	
3/20/2006	P-1	10.6	Elk	Yearling	Unknown	
12/29/2005	P-1	10.7	Whitetail Deer	Female	Unknown	
10/10/2007	P-1	10.7	Whitetail Deer	Female	Unknown	
2/22/2007	P-1	10.7	Whitetail Deer	Yearling	Unknown	
10/19/2005	P-1	10.7	Whitetail Deer	Yearling	Unknown	
10/4/2007	P-1	10.8	Whitetail Deer	Yearling	Unknown	
4/18/2005	P-1	10.9	Whitetail Deer	Yearling	Unknown	
2/28/2005	P-1	10.9	Whitetail Deer	Yearling	Unknown	
1/6/1999	P-1	10.9	Whitetail Deer	Unknown	Day	
6/19/2006	P-1	10.9	Whitetail Deer	Female	Unknown	
4/8/2003	P-1	11	Whitetail Deer	Yearling	Unknown	
10/26/2006	P-1	11	Whitetail Deer	Male	Unknown	
8/27/2001	P-1	11	Whitetail Deer	Male	Unknown	
12/29/2004	P-1	11	Whitetail Deer	Yearling	Unknown	
3/28/2005	P-1	11	Whitetail Deer	Yearling	Unknown	
3/15/2005	P-1	11	Whitetail Deer	Female	Unknown	
11/18/2005	P-1	11	Whitetail Deer	Yearling	Unknown	
1/17/2006	P-1	11	Whitetail Deer	Female	Unknown	
4/6/2005	P-1	11.1	Whitetail Deer	Female	Unknown	
1/11/2006	P-1	11.1	Whitetail Deer	Yearling	Unknown	
12/15/1999	P-1	11.3	Whitetail Deer	Male	Day	
11/22/2004	P-1	11.3	Whitetail Deer	Female	Unknown	
12/1/2004	P-1	11.3	Whitetail Deer	Unknown	Unknown	
4/21/2008	P-1	11.3	Whitetail Deer	Female	Unknown	
12/11/2006	P-1	11.3	Whitetail Deer	Female	Unknown	
11/22/2004	P-1	11.3	Whitetail Deer	Yearling	Unknown	
9/25/1999	P-1	11.4	Whitetail Deer	Yearling	Unknown	
9/14/2009	P-1	11.6	Whitetail Deer	Unknown	Unknown	
1/4/1999	P-1	11.7	Whitetail Deer	Female	Unknown	
3/13/2007	P-1	11.7	Whitetail Deer	Yearling	Unknown	
4/24/2008	P-1	11.7	Mule Deer	Female	Unknown	
10/4/2007	P-1	11.8	Whitetail Deer	Yearling	Unknown	
1/19/2005	P-1	11.9	Whitetail Deer	Yearling	Unknown	
1/17/2006	P-1	11.9	Whitetail Deer	Female	Unknown	
2/1/2005	P-1	11.9	Whitetail Deer	Female	Unknown	
6/14/2006	P-1	12	Whitetail Deer	Female	Unknown	
6/14/2006	P-1	12	Whitetail Deer	Female	Unknown	
11/7/2003	P-1	12.1	Whitetail Deer	Male	Unknown	
3/16/1999	P-1	12.4	Whitetail Deer	Female	Day	
11/7/2003	P-1	12.4	Whitetail Deer	Male	Unknown	
12/19/2005	P-1	12.4	Whitetail Deer	Female	Unknown	
9/30/2005	P-1	12.5	Whitetail Deer	Female	Unknown	
1/8/2008	P-1	12.5	Whitetail Deer	Yearling	Unknown	
12/3/2007	P-1	12.5	Mule Deer	Yearling	Night	
7/27/2007	P-1	12.6	Whitetail Deer	Male	Unknown	
11/21/2007	P-1	12.9	Whitetail Deer	Male	Unknown	
10/22/2007	P-1	13	Whitetail Deer	Female	Unknown	
3/17/1999	P-1	13	Whitetail Deer	Female	Night	
4/11/2000	P-1	13.1	Whitetail Deer	Female	Unknown	
7/8/2006	P-1	13.1	Elk	Male	Unknown	
3/29/1999	P-1	13.3	Whitetail Deer	Yearling	Night	
11/25/2005	P-1	13.4	Whitetail Deer	Yearling	Unknown	
7/10/2006	P-1	13.4	Whitetail Deer	Female	Unknown	
10/23/2007	P-1	13.5		Yearling	Unknown	
10/15/2007	P-1	13.6	Whitetail Deer	Female	Unknown	
2/7/2007	P-1	13.6	Whitetail Deer	Female	Unknown	
2/21/2008	P-1	13.7	Whitetail Deer	Female	Unknown	
11/22/2005	P-1	13.8	Whitetail Deer	Male	Unknown	
4/10/2007	P-1	13.8	Whitetail Deer	Yearling	Unknown	
10/29/2007	P-1	13.8	Whitetail Deer	Female	Unknown	
2/23/2007	P-1	13.9	Whitetail Deer	Female	Unknown	
12/3/2005	P-1	13.9	Whitetail Deer	Yearling	Unknown	
3/10/2008	P-1	14.1	Whitetail Deer	Female	Unknown	
2/15/2007	P-1	14.2	Whitetail Deer	Yearling	Unknown	
2/23/2006	P-1	14.5	Whitetail Deer	Unknown	Night	
5/28/1999	P-1	14.6	Skunk	Unknown	Unknown	
6/12/2007	P-1	14.6	Whitetail Deer	Yearling	Unknown	
5/28/1999	P-1	14.6	Skunk	Unknown	Unknown	
8/11/2006	P-1	14.7	Whitetail Deer	Female	Unknown	
11/12/2007	P-1	14.7	Whitetail Deer	Female	Unknown	
11/10/2004	P-1	14.7	Whitetail Deer	Female	Day	
3/16/2006	P-1	14.8	Whitetail Deer	Yearling	Unknown	
3/13/2006	P-1	14.8	Whitetail Deer	Female	Unknown	

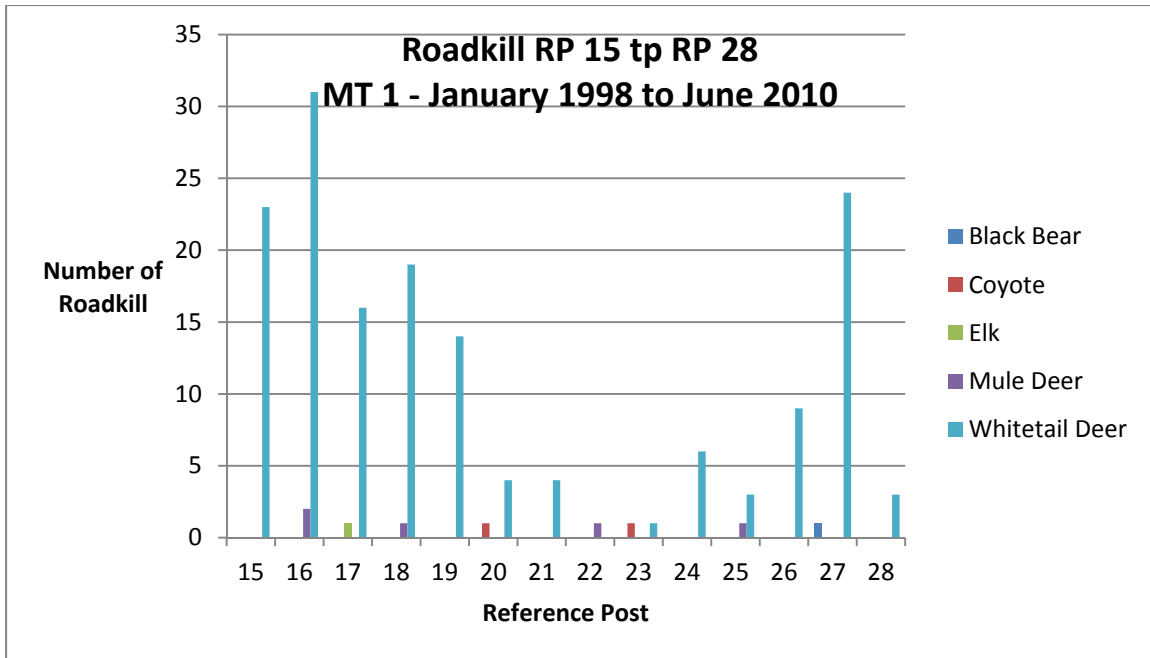
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12/10/2007	P-1	14.8	Whitetail Deer	Female	Unknown	
7/3/2006	P-1	14.8	Whitetail Deer	Female	Unknown	
12/10/2007	P-1	15	Whitetail Deer	Male	Unknown	
9/24/2007	P-1	15	Whitetail Deer	Yearling	Unknown	
11/15/2006	P-1	15	Whitetail Deer	Yearling	Unknown	
10/3/2006	P-1	15	Whitetail Deer	Yearling	Unknown	
2/25/2000	P-1	15	Whitetail Deer	Male	Night	



DATE	SYSTEM  '-'  ROUTE	MILEPOST	DECODE(ANIMAL,1,'ANTELOPE',2,'	DECODE(SEX,1,'MALE',2,'FEMALE'	DECODE(LIGHT_COND,1,'DAY',2,'N	COMMENTS
2/25/2000	P-1	15	Whitetail Deer	Male		Night
10/3/2006	P-1	15	Whitetail Deer	Yearling		Unknown
11/15/2006	P-1	15	Whitetail Deer	Yearling		Unknown
9/24/2007	P-1	15	Whitetail Deer	Yearling		Unknown
12/10/2007	P-1	15	Whitetail Deer	Male		Unknown
10/30/2007	P-1	15.1	Whitetail Deer	Female		Unknown
10/9/2007	P-1	15.1	Whitetail Deer	Yearling		Unknown
9/28/2005	P-1	15.1	Whitetail Deer	Male		Unknown
9/27/2007	P-1	15.1	Whitetail Deer	Female		Unknown
9/21/2007	P-1	15.1	Whitetail Deer	Yearling		Unknown
12/28/2004	P-1	15.2	Whitetail Deer	Male		Unknown
3/4/2008	P-1	15.2	Whitetail Deer	Yearling		Unknown
10/15/2007	P-1	15.2	Whitetail Deer	Female		Unknown
9/19/2006	P-1	15.2	Whitetail Deer	Female		Unknown
7/10/2006	P-1	15.3	Whitetail Deer	Female		Unknown
10/9/2004	P-1	15.3	Whitetail Deer	Male		Unknown
10/30/2007	P-1	15.3	Whitetail Deer	Yearling		Unknown
7/31/2006	P-1	15.3	Whitetail Deer	Yearling		Unknown
9/16/2006	P-1	15.3	Whitetail Deer	Yearling		Unknown
10/4/2005	P-1	15.4	Whitetail Deer	Yearling		Unknown
10/27/2005	P-1	15.4	Whitetail Deer	Yearling		Unknown
10/10/2006	P-1	15.5	Whitetail Deer	Female		Unknown
3/10/2000	P-1	15.9	Whitetail Deer	Female		Night
2/23/2006	P-1	16	Whitetail Deer	Female		Unknown
2/15/2000	P-1	16	Whitetail Deer	Female		Night
1/4/2005	P-1	16	Whitetail Deer	Female		Unknown
7/23/2007	P-1	16	Whitetail Deer	Yearling		Unknown
6/5/2007	P-1	16	Mule Deer	Male		Unknown
11/8/2006	P-1	16.1	Whitetail Deer	Female		Unknown
11/18/2005	P-1	16.1	Whitetail Deer	Female		Unknown
1/3/2007	P-1	16.2	Whitetail Deer	Female		Unknown
3/22/2000	P-1	16.6	Whitetail Deer	Female		Day
12/21/1999	P-1	16.7	Whitetail Deer	Yearling		Night
4/9/2008	P-1	16.7	Whitetail Deer	Female		Unknown
8/5/1999	P-1	16.7	Whitetail Deer	Yearling		Unknown
3/1/2005	P-1	16.7	Whitetail Deer	Female		Unknown
1/6/1999	P-1	16.7	Whitetail Deer	Unknown		Unknown
8/5/1999	P-1	16.7	Whitetail Deer	Yearling		Unknown
12/18/2006	P-1	16.8	Whitetail Deer	Yearling		Unknown
10/4/2006	P-1	16.8	Whitetail Deer	Male		Unknown
11/27/2007	P-1	16.8	Whitetail Deer	Female		Unknown
1/8/2008	P-1	16.8	Whitetail Deer	Female		Unknown
11/26/2007	P-1	16.8	Whitetail Deer	Female		Unknown
9/7/2007	P-1	16.8	Whitetail Deer	Female		Unknown
7/11/2007	P-1	16.8	Whitetail Deer	Male		Unknown
12/20/1999	P-1	16.8	Whitetail Deer	Female		Unknown
11/25/2005	P-1	16.8	Whitetail Deer	Female		Unknown
9/16/2005	P-1	16.8	Whitetail Deer	Male		Unknown
9/8/1999	P-1	16.8	Whitetail Deer	Male		Unknown
9/1/2006	P-1	16.8	Whitetail Deer	Male		Unknown
2/7/2007	P-1	16.9	Whitetail Deer	Yearling		Unknown
8/22/2006	P-1	16.9	Whitetail Deer	Male		Unknown
9/22/2005	P-1	16.9	Whitetail Deer	Yearling		Unknown
11/6/2007	P-1	16.9	Whitetail Deer	Yearling		Unknown
7/11/2007	P-1	16.9	Mule Deer	Male		Unknown
2/11/2005	P-1	16.9	Whitetail Deer	Female		Unknown
2/27/2006	P-1	17	Whitetail Deer	Yearling		Unknown
10/26/2005	P-1	17	Whitetail Deer	Yearling		Unknown
8/1/2006	P-1	17	Whitetail Deer	Female		Unknown
1/25/2000	P-1	17.2	Whitetail Deer	Female		Day
9/5/2007	P-1	17.2	Whitetail Deer	Female		Unknown
10/4/2006	P-1	17.2	Whitetail Deer	Male		Unknown
8/29/2005	P-1	17.3	Whitetail Deer	Yearling		Unknown
3/30/2007	P-1	17.3	Whitetail Deer	Yearling		Unknown
2/20/2007	P-1	17.4	Whitetail Deer	Yearling		Unknown
11/28/2005	P-1	17.4	Whitetail Deer	Female		Unknown
3/19/2007	P-1	17.4	Whitetail Deer	Female		Unknown
8/14/2006	P-1	17.5	Elk	Female		Unknown
11/21/2005	P-1	17.5	Whitetail Deer	Yearling		Unknown
10/4/2005	P-1	17.6	Whitetail Deer	Yearling		Unknown
6/21/2005	P-1	17.8	Whitetail Deer	Female		Unknown
3/8/1999	P-1	17.8	Whitetail Deer	Female		Unknown
8/22/2006	P-1	17.8	Whitetail Deer	Male		Unknown
8/12/1999	P-1	18	Whitetail Deer	Female		Unknown
8/12/1999	P-1	18	Whitetail Deer	Female		Unknown
11/26/2007	P-1	18	Whitetail Deer	Yearling		Unknown
2/21/2000	P-1	18.1	Whitetail Deer	Female		Unknown
11/9/2006	P-1	18.1	Whitetail Deer	Male		Unknown
2/26/1999	P-1	18.1	Whitetail Deer	Female		Unknown
2/23/2008	P-1	18.1	Whitetail Deer	Female		Unknown
1/3/2007	P-1	18.1	Whitetail Deer	Yearling		Unknown
1/18/2000	P-1	18.1	Whitetail Deer	Female		Night
2/25/2005	P-1	18.2	Whitetail Deer	Female		Unknown
8/21/2007	P-1	18.3	Whitetail Deer	Male		Unknown
5/28/1999	P-1	18.3	Whitetail Deer	Yearling		Unknown
5/28/1999	P-1	18.3	Whitetail Deer	Yearling		Unknown
2/21/2000	P-1	18.4	Whitetail Deer	Female		Unknown
4/3/2007	P-1	18.4	Whitetail Deer	Male		Unknown
10/26/2005	P-1	18.4	Whitetail Deer	Yearling		Unknown
8/13/1999	P-1	18.5	Deer(unknown)	Female		Night
3/17/1999	P-1	18.5	Whitetail Deer	Yearling		Day
10/30/2006	P-1	18.7	Whitetail Deer	Yearling		Unknown
11/15/2006	P-1	18.8	Whitetail Deer	Male		Day
6/1/2007	P-1	18.8	Mule Deer	Female		Unknown
4/11/2005	P-1	19	Whitetail Deer	Yearling		Unknown
7/26/2005	P-1	19	Whitetail Deer	Female		Unknown
8/20/2007	P-1	19	Whitetail Deer	Female		Unknown



_DATE	SYSTEM  '-  ROUTE	MILEPOST	DECODE(ANIMAL,1,'ANTELOPE',2,'	DECODE(SEX,1,'MALE',2,'FEMALE'	DECODE(LIGHT_COND,1,'DAY',2,'N	COMMENTS
3/7/2008	P-1	19	Whitetail Deer	Female	Unknown	
2/27/2006	P-1	19	Whitetail Deer	Yearling	Unknown	
1/3/2007	P-1	19.1	Whitetail Deer	Yearling	Unknown	
11/18/2005	P-1	19.1	Whitetail Deer	Female	Unknown	
10/28/2005	P-1	19.1	Whitetail Deer	Yearling	Unknown	
7/27/2005	P-1	19.1	Whitetail Deer	Female	Unknown	
10/30/2007	P-1	19.2	Whitetail Deer	Female	Unknown	
5/20/2005	P-1	19.3	Whitetail Deer	Yearling	Unknown	
4/27/2005	P-1	19.5	Whitetail Deer	Male	Unknown	
3/24/2006	P-1	19.6	Whitetail Deer	Female	Unknown	
10/2/2006	P-1	19.7	Whitetail Deer	Female	Unknown	
4/20/2006	P-1	20	Other(wild)	Unknown	Unknown	COYOTE
8/9/1999	P-1	20.1	Whitetail Deer	Yearling	Unknown	
8/9/1999	P-1	20.1	Whitetail Deer	Yearling	Unknown	
3/4/2008	P-1	20.1	Whitetail Deer	Female	Unknown	
1/4/2006	P-1	20.7	Whitetail Deer	Female	Unknown	
1/2/2007	P-1	21	Whitetail Deer	Female	Unknown	
7/7/2006	P-1	21.1	Whitetail Deer	Yearling	Unknown	
2/21/2000	P-1	21.2	Whitetail Deer	Male	Unknown	
12/12/2007	P-1	21.8	Whitetail Deer	Yearling	Unknown	
8/31/2005	P-1	22.8	Mule Deer	Female	Unknown	
8/13/1999	P-1	23	Other(wild)	Unknown	Night	COYOTE
7/23/2007	P-1	23.7	Whitetail Deer	Female	Unknown	
1/4/2007	P-1	24.5	Whitetail Deer	Female	Unknown	
2/16/2007	P-1	24.5	Whitetail Deer	Female	Night	YEA4RLING
4/9/2009	P-1	24.6	Whitetail Deer	Unknown	Unknown	
7/23/2007	P-1	24.7	Whitetail Deer	Female	Unknown	
8/10/2005	P-1	24.8	Whitetail Deer	Female	Night	
3/28/2008	P-1	24.9	Whitetail Deer	Unknown	Unknown	
5/28/1999	P-1	25.1	Whitetail Deer	Unknown	Unknown	
2/3/2009	P-1	25.5	Whitetail Deer	Yearling	Night	
8/3/2009	P-1	25.5	Whitetail Deer	Male	Unknown	
10/26/2007	P-1	25.9	Mule Deer	Female	Unknown	
12/8/2005	P-1	26	Whitetail Deer	Male	Night	YERLING
7/10/2007	P-1	26	Whitetail Deer	Yearling	Unknown	
6/30/2005	P-1	26	Whitetail Deer	Female	Day	
1/1/2009	P-1	26	Whitetail Deer	Female	Night	
11/22/2005	P-1	26.1	Whitetail Deer	Male	Day	
6/30/2010	P-1	26.1	Whitetail Deer	Male	Unknown	
10/27/2005	P-1	26.2	Whitetail Deer	Female	Night	YEARLING
3/10/2005	P-1	26.3	Whitetail Deer	Female	Night	YEARLING
5/4/2007	P-1	26.3	Whitetail Deer	Female	Unknown	
2/4/2005	P-1	27	Whitetail Deer	Yearling	Unknown	
4/30/2007	P-1	27	Whitetail Deer	Female	Night	
4/27/2006	P-1	27.2	Whitetail Deer	Male	Unknown	
11/2/2006	P-1	27.2	Whitetail Deer	Yearling	Unknown	YEARLING
1/13/2006	P-1	27.3	Whitetail Deer	Female	Night	YEARLING
4/6/2007	P-1	27.3	Whitetail Deer	Female	Day	YEARLING
1/31/2006	P-1	27.3	Whitetail Deer	Male	Unknown	YEARLING
10/5/2009	P-1	27.4	Whitetail Deer	Male	Night	
2/15/2006	P-1	27.4	Whitetail Deer	Male	Unknown	
5/18/2006	P-1	27.4	Whitetail Deer	Female	Night	YEARLING
1/13/2010	P-1	27.5	Whitetail Deer	Female	Unknown	
2/8/2007	P-1	27.5	Whitetail Deer	Female	Night	
1/13/2010	P-1	27.5	Whitetail Deer	Female	Unknown	
9/15/2009	P-1	27.6	Whitetail Deer	Unknown	Unknown	
6/4/2007	P-1	27.6	Whitetail Deer	Unknown	Unknown	
4/11/2006	P-1	27.7	Whitetail Deer	Male	Unknown	
10/17/2005	P-1	27.8	Other(wild)	Unknown	Night	SKUNK
6/1/2007	P-1	27.8	Whitetail Deer	Male	Day	
3/17/2009	P-1	27.9	Whitetail Deer	Female	Night	
12/3/2007	P-1	27.9	Whitetail Deer	Yearling	Night	
3/17/2009	P-1	27.9	Black Bear	Female	Night	
3/17/2009	P-1	27.9	Whitetail Deer	Yearling	Night	
4/9/2009	P-1	27.9	Whitetail Deer	Yearling	Unknown	
3/17/2009	P-1	27.9	Whitetail Deer	Yearling	Night	
6/29/2009	P-1	27.9	Whitetail Deer	Female	Night	
3/23/2009	P-1	27.9	Whitetail Deer	Female	Unknown	
8/9/2006	P-1	28	Whitetail Deer	Female	Night	
2/25/2007	P-1	28	Whitetail Deer	Female	Unknown	
10/31/2005	P-1	28	Whitetail Deer	Female	Unknown	YEARLING



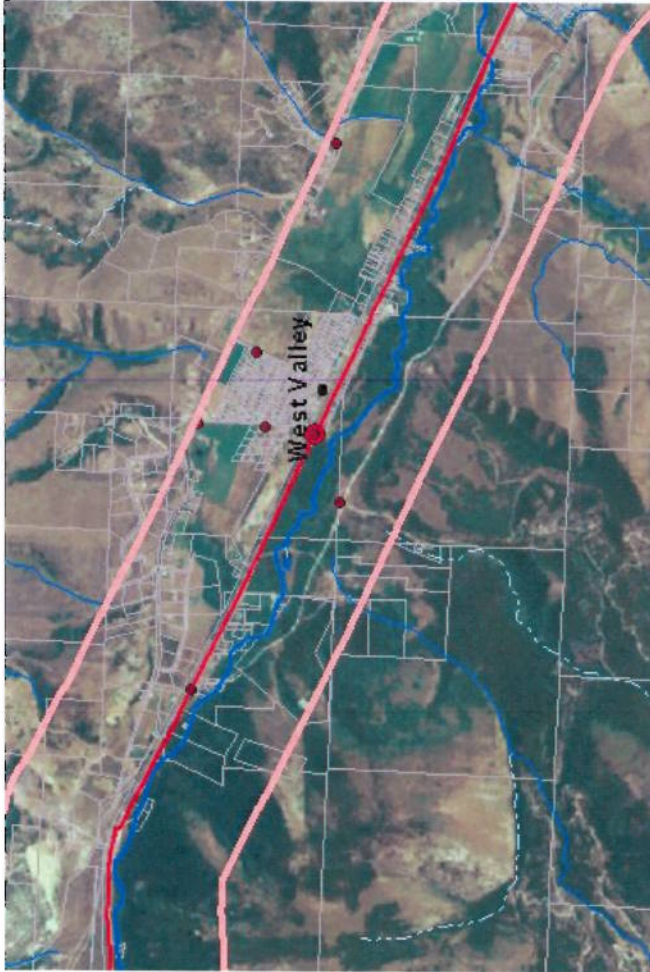
Appendix D:  
Alluvium geologic maps and descriptions

PHASE - 1

# Underground Tanks, Petroleum Releases, and Release Compensation Sites

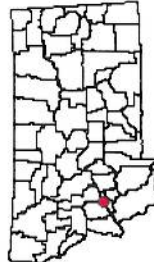
Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2   Pan   Full Extent



This map is 4.25 miles wide.   Photo Date: 8/14/2005

Location Map



Data Reports

[Underground Storage Tank Facilities](#)

[Underground Tank Leaks](#)

[Petroleum Compensation Sites](#)

[Download Underground Storage Tank Facilities Shape File](#)

Description

[Click Here](#)

[Click Here](#)

[Click Here](#)

Identify

Legend

Metadata

Underground Storage Tank



Yes

Leaking Underground Tank



Yes

Petroleum Release Compensation Site



Yes

Owner Parcels



Yes

County



Yes

Highways

Interstate Route



Yes

U.S. Route



Montana Route



Secondary Route



Yes

Town Population



0-100



101-1,000



1,001-5,000



Over 5,000

Yes

Streams

Major river or stream



Other stream



Un-named stream



Yes

Water Body

Lake/Pond



Swamp/Marsh



Glacier



Yes

Select a Background Image:

**Underground Tank Leaks**[Click here to close window and return to map.](#)

**Search Area:**  
**Highway = MT1, with a buffer of 0.5 Miles**

There are 32 reported underground storage tank (UST) leaks in the study area.

Data last retrieved from DEQ on 11/8/2010 9:00:31 AM

**Data Description**

This report is a list of leaking underground storage tank records found in the search area from the Petroleum Release Section, Remediation Division, Montana DEQ.

The data available from this site does not represent all of DEQ's data. Data on this site is summary information for a few selected programs and resides in databases located with the Remediation Division of the DEQ. This data should be used for planning purposes only. Geographic location accuracy of all sites presented here should be verified by the user. Data on this site is typically uploaded from DEQ to NRIS once per week (every Friday night). More detailed, hardcopy information and reports are available from the DEQ and PTRCB libraries and may be viewed and obtained during regular business hours.

Event ID	Facility Name	Active	Priority	Location	City	Confirmed Release	Resolved Date
<a href="#">2448</a>	AFFCO INC #2541	No		E 6TH ST & JEFFERSON ST	ANACONDA	2/24/1995	12/23/1997
<a href="#">936</a>	ANACONDA UNIT HEADQUARTERS DSL #2186	No		7916 MT HIGHWAY 1 W	ANACONDA	5/2/1994	1/27/1998
<a href="#">1528</a>	ARBITER PLANT #827	No		605 ARBITER PLANT LN	ANACONDA	7/24/1991	7/28/1994
<a href="#">1823</a>	BUTCHS SERVICE #274	No		423 W PARK AVE	ANACONDA	4/19/1990	9/19/1991
<a href="#">1135</a>	CARPET SHOP (MDOT) #2211	No		320 E COMMERCIAL AVE	ANACONDA	5/16/1994	12/23/1994
<a href="#">262</a>	CLASSIC CLEANERS #3035	No		1621 E COMMERCIAL AVE	ANACONDA	10/21/1996	10/25/1996
<a href="#">1635</a>	DRUMMOND CONOCO #3068	No	5.0 - Pending Closure	242 FRONTAGE RD E	DRUMMOND	11/14/1996	5/12/2009
<a href="#">227</a>	FOLEYS QUALITY SERVICE & SUPPLY #2163	No	5.0 - Pending Closure	MT HIGHWAY 1	HALL	3/23/1994	7/2/2007
<a href="#">4439</a>	FORMER BOWEN BULK PLANT #4439	Yes	5.0 - Pending Closure	731 W BROADWAY	PHILIPSBURG	5/12/2005	
<a href="#">2690</a>	FRONT STREET CONOCO #817	No	5.0 - Pending Closure	242 FRONTAGE RD E	DRUMMOND	7/23/1991	5/20/2009
<a href="#">3614</a>	GRANITE COUNTY ROAD DEPT HALL #4230	No		MT HIGHWAY 1	HALL	6/17/1999	5/12/2000
<a href="#">3615</a>	GRANITE COUNTY ROAD DEPT PHILIPSBURG #4231	No		SCHOOL HILL RD	PHILIPSBURG	6/16/1999	5/2/2000
<a href="#">3099</a>	GRANITE TIMBER INC #3234	Yes	2.0 - Medium Priority Characterization	34 METESH LN	PHILIPSBURG	7/8/1997	
<a href="#">3002</a>	INTERMOUNTAIN BUS DEPOT #3145	No		7 MAIN ST	ANACONDA	5/14/1997	4/14/1998
<a href="#">343</a>	LTS RODS & CUSTOMS #3000	No		600 E PARK AVE	ANACONDA	9/11/1996	1/28/1997
<a href="#">3004</a>	MONTANA MUFFLER #3147	No		901 W PARK AVE	ANACONDA	5/7/1997	11/17/1997
<a href="#">1887</a>	MT DEPT HWY DRUMMOND SHOP #127	Yes	1.1 - High Priority/Emergency response	MT HIGHWAY 1	DRUMMOND	9/22/1989	
<a href="#">1345</a>	MT DEPT HWY DRUMMOND SHOP #1996	No		MT HIGHWAY 1	DRUMMOND	12/1/1993	1/9/1996
<a href="#">2120</a>	OLD BLACKSMITH SHOP #2164	No			HALL	3/23/1994	9/10/1996
<a href="#">719</a>	PETES CONOCO & TIRE #171	No		311B AYERS ST	ANACONDA	12/13/1989	5/29/1991
<a href="#">509</a>	RDM MULTI ENTERPRISES INC #3073	No		105 N Silver St	ANACONDA	11/25/1996	1/2/1997
<a href="#">646</a>	ROAD & POLICE DEPT #2656	No		800 MAIN ST	ANACONDA	7/27/1995	4/2/1997
<a href="#">4041</a>	SITE 8069 #4061	No		MULLAN TRAIL RD	DRUMMOND	9/28/2001	10/29/2004
<a href="#">3340</a>	STUARTS GEORGETOWN LANDING #3464	No		14411 MT HIGHWAY 1 W	ANACONDA	7/14/1998	10/13/1998
<a href="#">3472</a>	STUARTS GEORGETOWN LANDING #3598	Yes	1.4 - High Priority Characterization	14411 MT HIGHWAY 1 W	ANACONDA	11/19/1998	
<a href="#">301</a>	SUNSHINE STATION 417 #3004	No		3830 MT HIGHWAY 1	PHILIPSBURG	8/24/1996	9/27/1996
<a href="#">213</a>	TEDS GAS & REPAIR SERVICE INC #393	No		701 E PARK AVE	ANACONDA	9/24/1990	10/30/1991
<a href="#">2133</a>	THRIFTWAY SUPER STOP 3 #399	No		1420 E PARK AVE	ANACONDA	9/27/1990	4/19/1995
<a href="#">2638</a>	TOWN PUMP INC ANACONDA 1 #2440	No		OLD HIGHWAY 10A E	ANACONDA	11/17/1994	8/22/1996
<a href="#">4377</a>	TOWN PUMP INC ANACONDA 1 #4377	No		OLD HIGHWAY 10A E	ANACONDA	11/4/2004	6/14/2005
<a href="#">2872</a>	TOWN PUMP INC ANACONDA 2 #984	No		819 W PARK AVE	ANACONDA	5/14/1991	10/19/1994
<a href="#">1914</a>	WILLIAM E ARVISH #685	No		2814 MT Highway 1 W	ANACONDA	4/2/1991	3/17/1993



## Underground Storage Tank Facilities

[Click here to close window and return to map.](#)

## Search Area:

Highway = MT1, with a buffer of 0.5 Miles

There are 119 underground tank facilities in the study area.

Data last retrieved from DEQ on 11/8/2010 9:00:31 AM

## Data Description

This report is a list of underground storage tank facility records found in the search area from the Waste and Underground Tank Bureau, Permitting and Compliance Division, Montana DEQ. The report has links to a more detailed report for each record.

The data available from this site does not represent all of DEQ's data. Data on this site is summary information for a few selected programs and resides in databases located with the Remediation Division of the DEQ. This data should be used for planning purposes only. Geographic location accuracy of all sites presented here should be verified by the user. Data on this site is typically uploaded from DEQ to NRIS once per week (every Friday night). More detailed, hardcopy information and reports are available from the DEQ and PTRCB libraries and may be viewed and obtained during regular business hours.

Facility ID (Click link to view details)	Name	Address	City	ZIP	Active Tanks
<a href="#">1201470</a>	A & A TECHNICAL REPAIR INC	701 E PARK AVE	ANACONDA	59711	
<a href="#">1213603</a>	AFFCO INC	E 6TH ST & JEFFERSON ST	ANACONDA	59711	
<a href="#">1200411</a>	ALBERT CLARK	208 POWELL ST	ANACONDA	59711	
<a href="#">1206538</a>	ALLYN R HARRIS	5010 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">1213163</a>	ANACONDA A O H BUILDING INC	106 CHERRY ST	ANACONDA	59711	
<a href="#">1202442</a>	ANACONDA CITY HALL	400 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">6015073</a>	ANACONDA DEER LODGE COUNTY MAIN STREET ROW	13 Main Street	Anaconda	59711	
<a href="#">1202147</a>	ANACONDA DISPOSAL SERVICE INC	110 N MAIN ST	ANACONDA	59711	
<a href="#">1205249</a>	ANACONDA POST & POLE INC	3715 N Cable Rd	ANACONDA	59711	
<a href="#">1208759</a>	ANACONDA RADIO MICROWAVE SITE	LOST CREEK RD	ANACONDA	59711	
<a href="#">1201423</a>	ANACONDA SERVICE CENTER	1000 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">1206090</a>	ANACONDA UNIT HEADQUARTERS DSL	7916 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">1202619</a>	ARBITER PLANT	605 ARBITER PLANT LN	ANACONDA	59711	
<a href="#">1202149</a>	ARTHUR C GROSVDOLD		ANACONDA	59711	
<a href="#">1205933</a>	ARTHUR C KLEMANH	214 MOUNTAIN VIEW ST	ANACONDA	59711	
<a href="#">1210912</a>	ATLANTIC RICHFIELD COMPANY	105 N Silver St	ANACONDA	59711	
<a href="#">1200255</a>	BERT L WICKE	511 STEWART ST	ANACONDA	59711	
<a href="#">1206533</a>	BERT WISE CONOCO	627 E PARK AVE	ANACONDA	59711	
<a href="#">2009544</a>	BN DRUMMOND	US HIGHWAY 10A	DRUMMOND	59832	
<a href="#">2009545</a>	BN DRUMMOND MICROWAVE		DRUMMOND	59832	
<a href="#">2006010</a>	BOWEN SERVICE INC	731 W BROADWAY	PHILIPSBURG	59858	
<a href="#">1200611</a>	BOWMAN CAMP	GEORGETOWN LAKE RD	ANACONDA	59711	
<a href="#">1207752</a>	BPA ANACONDA SUBSTATION		ANACONDA	59711	
<a href="#">2000415</a>	BUCK RANCH		HALL	59837	
<a href="#">1213585</a>	BUCK RESIDENCE	713 STEWART ST	ANACONDA	59711	
<a href="#">1203623</a>	BURTON H COLWELL	9811 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">1200248</a>	BUTCHS SERVICE	423 W PARK AVE	ANACONDA	59711	
<a href="#">2000850</a>	CANYON BAR	19 B ST	DRUMMOND	59832	
<a href="#">2010900</a>	CEDAR LANE RANCH		HALL	59837	
<a href="#">2001748</a>	CLARENCE L WALTER		HALL	59837	
<a href="#">1201879</a>	CLASSIC CLEANERS	1621 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">5613925</a>	COMMUNITY HOSPITAL & NURSING HOME OF ANACONDA	401 W PENNSYLVANIA ST	ANACONDA	59711	
<a href="#">1213484</a>	COPPER CITY SHEET METAL	109 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">1202238</a>	DADS GAS STATION DEFUNCT	W PARK AVE & HICKORY ST	ANACONDA	59711	
<a href="#">2001789</a>	DALTON MORSE		DRUMMOND	59832	
<a href="#">1207150</a>	DEE MOTOR CO	1200 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">1208599</a>	DISCOVERY BASIN	GEORGETOWN LAKE RD	ANACONDA	59711	
<a href="#">2007525</a>	EAGLE STUD MILL INC		HALL	59837	
<a href="#">2011600</a>	EARL MARTIN	109 EDWARDS ST	DRUMMOND	59832	
<a href="#">2012704</a>	ED SCHAFFER		DRUMMOND	59832	
<a href="#">1201926</a>	EDWARD A DALLASERRA	1603 N CABLE RD	ANACONDA	59711	
<a href="#">1204411</a>	ERICKSONS AUTO REPAIR	624 E PARK AVE	ANACONDA	59711	
<a href="#">2006011</a>	FESSLER BROS GARAGE	2 HOLLAND ST	PHILIPSBURG	59858	
<a href="#">1201531</a>	FIRST INTERSTATE BANK OF MONTANA ANACONDA	1121 E PARK AVE	ANACONDA	59711	
<a href="#">2005810</a>	FISCHERS CHEV		DRUMMOND	59832	
<a href="#">1201160</a>	FITZGERALD MOTORS	204 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">2008087</a>	FLINT CREEK RANCH		PHILIPSBURG	59858	
<a href="#">2005514</a>	FOLEYS QUALITY SERVICE & SUPPLY UST	MT HIGHWAY 1	HALL	59837	
<a href="#">1201145</a>	FORMER YOUNG MOTOR CO	301 MAIN ST	ANACONDA	59711	
<a href="#">2007558</a>	FORREST & JO JOHNSON	12 Porters Corner Ln	PHILIPSBURG	59858	
<a href="#">2006570</a>	FRONT STREET CONOCO	242 FRONTAGE RD E	DRUMMOND	59832	
<a href="#">2006548</a>	GEM MOUNTAIN SAPPHIRE		PHILIPSBURG	59858	
<a href="#">2003882</a>	GENE M ALLEN		DRUMMOND	59832	
<a href="#">2007737</a>	GEORGE A RICHARDSON		DRUMMOND	59832	
<a href="#">1203051</a>	GEORGETOWN BOAT CLUB	GEORGETOWN LAKE RD	ANACONDA	59711	
<a href="#">1212896</a>	GEORGETOWN LANDING	14411 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">2008540</a>	GRANITE COUNTY ROAD DEPT HALL	MT HIGHWAY 1	HALL	59837	
<a href="#">2005275</a>	GRANITE COUNTY ROAD DEPT PHILIPSBURG	SCHOOL HILL RD	PHILIPSBURG	59858	
<a href="#">2001708</a>	GRANITE SPORTLAND INC	728 W BROADWAY ST	PHILIPSBURG	59858	
<a href="#">2013773</a>	GRANITE TIMBER INC	34 METESH LN	PHILIPSBURG	59858	
<a href="#">1211752</a>	HAROLD E LEVENGOOD		ANACONDA	59711	
<a href="#">2001922</a>	HOGANS RANCH & BUILDERS SUPPLY	100 W MAIN ST	HALL	59837	
<a href="#">1202237</a>	INTERMOUNTAIN BUS DEPOT	7 MAIN ST	ANACONDA	59711	
<a href="#">1202439</a>	INTERMOUNTAIN TRANSPORTATION CO INC	922 W 3RD ST	ANACONDA	59711	
<a href="#">2011045</a>	JENSEN RANCH CO		HALL	59837	

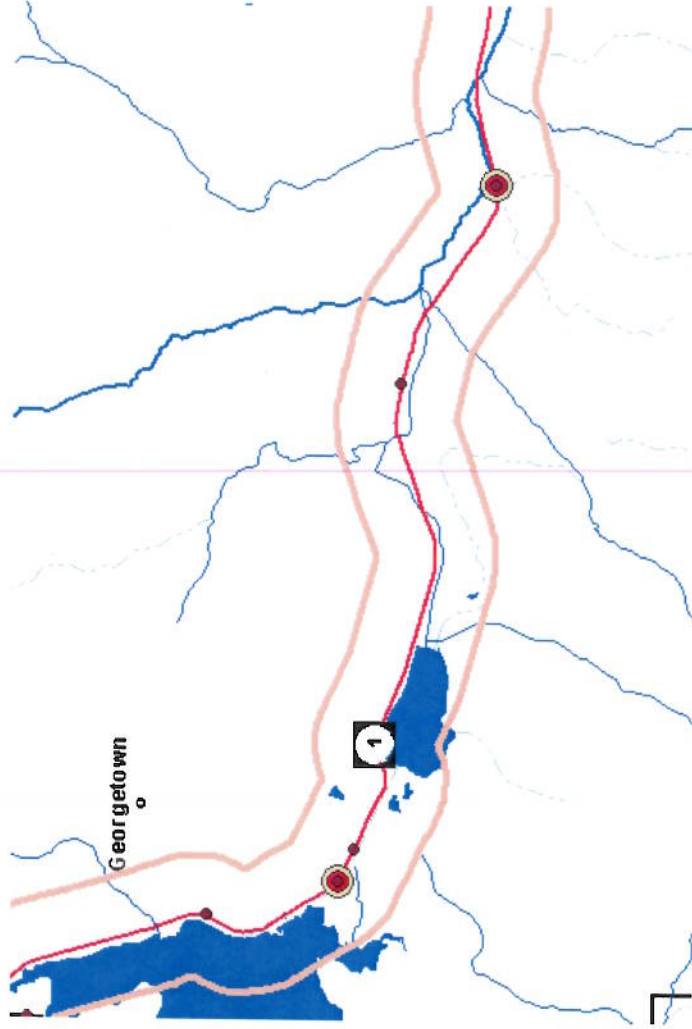
1205404	JOE F KANDUCH & SONS INC	6811 US HIGHWAY 10A W	PHILIPSBURG	59858
2010880	JOHN A CONN RANCH		HALL	59837
1200811	JOHN J BLEILE SR	500 S SIDNEY ST	ANACONDA	59711
2001609	JOHN MARYWELL		HALL	59837
2004793	JOHN SUMMERS	14103 US HIGHWAY 10W	ANACONDA	59711
1203878	JOHN T & CHARLOTTE E O'DONNELL	3008 N CABLE RD	ANACONDA	59711
1201235	JOHN W MONAHAN	301 E 3RD ST	ANACONDA	59711
2003978	JOHNSON TUNING FORK RANCH		HALL	59837
3908726	KENNEALLY CABINS	GEORGETOWN LAKE RD	ANACONDA	59711
6015172	KUDZIA FAMILY UST	520 Main St	ANACONDA	59711
2009918	LACEY HEREFORD RANCHES INC	62 GRASSLAND DR	DRUMMOND	59832
2005515	LEONARD E BRAY		HALL	59837
1204905	LTS RODS & CUSTOMS	600 E PARK AVE	ANACONDA	59711
2006645	MARSHALL CREEK RANCH INC	MARSHALL CREEKS RD	PHILIPSBURG	59858
1203501	MATTS CONOCO	200 W PARK AVE	ANACONDA	59711
2009294	MDOT 11 2006 DRUMMOND SHOP	MT HIGHWAY 1	DRUMMOND	59832
1201063	MDOT ANACONDA	717 E FRONT ST	ANACONDA	59711
1213480	MDOT ANACONDA CARPET SHOP	320 E COMMERCIAL AVE	ANACONDA	59711
2009295	MDOT PHILIPSBURG		PHILIPSBURG	59858
1201123	MODERN CLEANERS	417 E PARK AVE	ANACONDA	59711
1201407	MONTANA MUFFLER	901 W PARK AVE	ANACONDA	59711
1204822	NAZER & SON TOWING INC	500 MONROE ST	ANACONDA	59711
2013100	OLD BLACKSMITH SHOP		HALL	59837
2002201	OPEN CROSS RANCH INC	18 Open Cross Ranch Rd	HALL	59837
1201361	PARK MOTORS LLC	300 E COMMERCIAL AVE	ANACONDA	59711
1207941	PETES CONOCO & TIRE	311B AYERS ST	ANACONDA	59711
2009454	PHILIPSBURG RANGER STATION	88 BUSINESS LOOP	PHILIPSBURG	59858
5613983	PINTLER PETROLEUM INC	906 W BROADWAY RD	PHILIPSBURG	59858
1201253	PIONEER CONCRETE GRAVEL PLANT		ANACONDA	59711
1205773	PIT STOP 2	900 E COMMERCIAL AVE	ANACONDA	59711
1205876	RARUS RAILWAY CO	900 W COMMERCIAL AVE	ANACONDA	59711
2002761	RESIDENCE DRUMMOND		DRUMMOND	59832
1204355	ROAD & POLICE DEPT	800 MAIN ST	ANACONDA	59711
2001125	ROBERT D SACKMAN		DRUMMOND	59832
1200557	ROBERT G WOLTER	15 FAIRVIEW ST N	ANACONDA	59711
2000662	ROCKING CHAIR RANCH		PHILIPSBURG	59858
1210374	RUTH BENNETT	2907 STUMPTOWN RD	ANACONDA	59711
2011653	SCHOOL BUS BARN	W MAIN ST	DRUMMOND	59832
5614021	SITE 8069	MULLAN TRAIL RD	DRUMMOND	59832
2005771	SUNSHINE STATION 417	3830 MT HIGHWAY 1	PHILIPSBURG	59858
1202793	TED KUBERICH DECEASED	822 E PARK AVE	ANACONDA	59711
1207938	THRIFTWAY SUPER STOP 3	1420 E PARK AVE	ANACONDA	59711
1200101	THRIFTWAY SUPER STOP 7	2035 W PARK AVE	ANACONDA	59711
1200882	TONY QUICK INC		ANACONDA	59711
1209326	TOWN PUMP INC ANACONDA 1	OLD HIGHWAY 10A E	ANACONDA	59711
1208668	TOWN PUMP INC ANACONDA 2	819 W PARK AVE	ANACONDA	59711
1207367	TUSS RESIDENCE	4 STEWART ST	ANACONDA	59711
1210901	WADE THOMAS RUTT	5317 MT HIGHWAY 1 W	ANACONDA	59711
1204910	WASHOE PARK TROUT HATCHERY	600 W PENNSYLVANIA ST	ANACONDA	59711
2010820	WH RANCH CO	95 HENDERSON CREEK RD	HALL	59837
2010997	WIGHT RANCH	27 Wight Mountain Ln	HALL	59837
1204891	WILLIAM E ARVISH	2814 MT Highway 1 W	ANACONDA	59711
2002191	WINNINGHOFF MOTORS INC 906 W BROADWAY	906 W BROADWAY RD	PHILIPSBURG	59858
2002738	WM R OHRMANN	6155 OLD US HIGHWAY 10A	DRUMMOND	59832



PHASE - 2

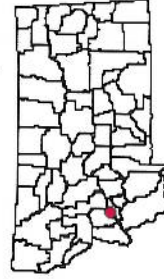
## Underground Tanks, Petroleum Releases, and Release Compensation Sites

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List [Zoom](#) [IN](#) [OUT](#) [Zoom Factor 2](#) [Pan](#) [Full Extent](#)

This map is 8.5 miles wide.

### Location Map



### Data Reports

[Underground Storage Tank Facilities](#)[Underground Tank Leaks](#)[Petroleum Compensation Sites](#)

### Description

[Click Here](#)[Click Here](#)[Click Here](#)[Download Underground Storage Tank Facilities Shape File](#)[Download Leaking Underground Tanks Shape File](#)[Download Petroleum Compensation Sites Shape File](#)

### Identify

### Legend

### Metadata

Underground Storage Tank

Yes

Leaking Underground Tank

Yes

Petroleum Release Compensation Site

Yes

County

Yes

### Highways

Interstate Route

U.S. Route

Montana Route

Secondary Route

Yes

### Town Population

0-100

101-1,000

1,001-5,000

Over 5,000

Yes

### Streams

Major river or stream

Other stream

Un-named stream

Yes

### Water Body

Lake/Pond

Swamp/Marsh

Glacier

Yes

Select a Background Image:

None

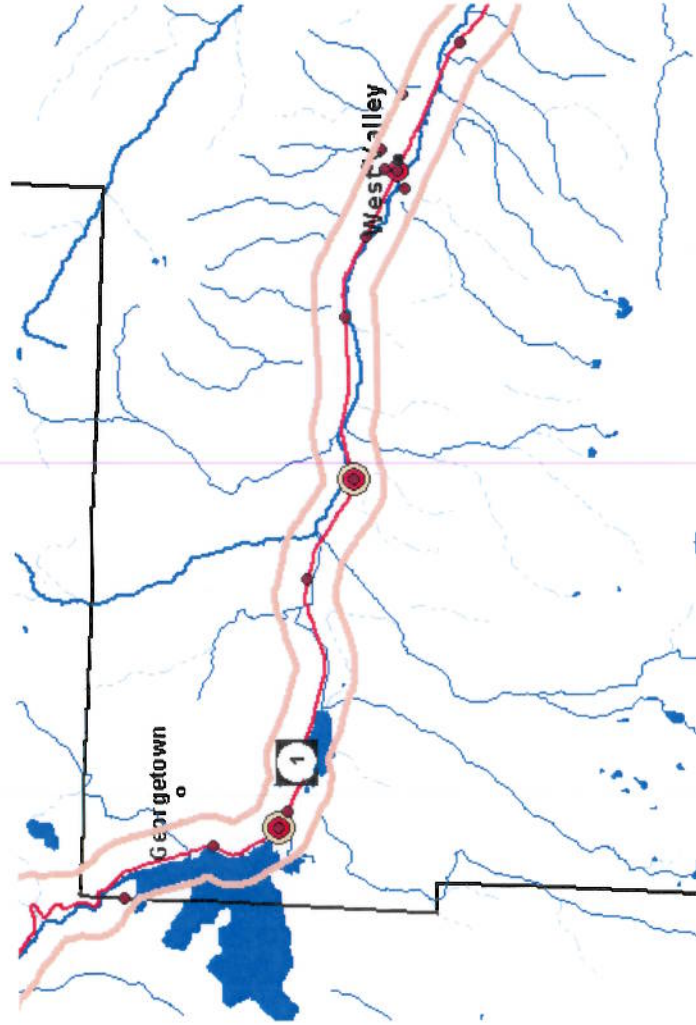
[Click here for a printable version](#)

HELP

# Underground Tanks, Petroleum Releases, and Release Compensation Sites

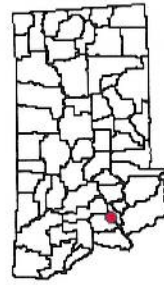
Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2   Pan



This map is 17.0 miles wide.

## Location Map



## Data Reports

- [Underground Storage Tank Facilities](#)
- [Underground Tank Leaks](#)
- [Petroleum Compensation Sites](#)

## Description

- [Click Here](#)
- [Click Here](#)
- [Click Here](#)

- [Download Underground Storage Tank Facilities Shape File](#)
- [Download Leaking Underground Tanks Shape File](#)
- [Download Petroleum Compensation Sites Shape File](#)

## Identify

## Legend

## Metadata

Underground Storage Tank	Yes
Leaking Underground Tank	Yes
Petroleum Release Compensation Site	Yes
County	Yes
<b>Highways</b> Interstate Route U.S. Route Montana Route Secondary Route	Yes
<b>Town Population</b> 0-100 101-1,000 1,001-5,000 Over 5,000	Yes
<b>Streams</b> Major river or stream Other stream Un-named stream	Yes
<b>Water Body</b> Lake/Pond Swamp/Marsh Glacier	Yes

Select a Background Image:

None

[Click here for a printable version](#)

[HELP](#)



## Underground Tank Leaks

[Click here to close window and return to map.](#)
**Search Area:**  
**Highway = MT1, with a buffer of 0.5 Miles**

There are 32 reported underground storage tank (UST) leaks in the study area.

Data last retrieved from DEQ on 11/8/2010 9:00:31 AM

**Data Description**

This report is a list of leaking underground storage tank records found in the search area from the Petroleum Release Section, Remediation Division, Montana DEQ.

The data available from this site does not represent all of DEQ's data. Data on this site is summary information for a few selected programs and resides in databases located with the Remediation Division of the DEQ. This data should be used for planning purposes only. Geographic location accuracy of all sites presented here should be verified by the user. Data on this site is typically uploaded from DEQ to NRIS once per week (every Friday night). More detailed, hardcopy information and reports are available from the DEQ and PTRCB libraries and may be viewed and obtained during regular business hours.

Event ID	Facility Name	Active	Priority	Location	City	Confirmed Release	Resolved Date
<a href="#">2448</a>	AFFCO INC #2541	No		E 6TH ST & JEFFERSON ST	ANACONDA	2/24/1995	12/23/1997
<a href="#">936</a>	ANACONDA UNIT HEADQUARTERS DSL #2186	No		7916 MT HIGHWAY 1 W	ANACONDA	5/2/1994	1/27/1998
<a href="#">1528</a>	ARBITER PLANT #827	No		605 ARBITER PLANT LN	ANACONDA	7/24/1991	7/28/1994
<a href="#">1823</a>	BUTCHS SERVICE #274	No		423 W PARK AVE	ANACONDA	4/19/1990	9/19/1991
<a href="#">1135</a>	CARPET SHOP (MDOT) #2211	No		320 E COMMERCIAL AVE	ANACONDA	5/16/1994	12/23/1994
<a href="#">262</a>	CLASSIC CLEANERS #3035	No		1621 E COMMERCIAL AVE	ANACONDA	10/21/1996	10/25/1996
<a href="#">1635</a>	DRUMMOND CONOCO #3068	No	5.0 - Pending Closure	242 FRONTAGE RD E	DRUMMOND	11/14/1996	5/12/2009
<a href="#">227</a>	FOLEYS QUALITY SERVICE & SUPPLY #2163	No	5.0 - Pending Closure	MT HIGHWAY 1	HALL	3/23/1994	7/2/2007
<a href="#">4439</a>	FORMER BOWEN BULK PLANT #4439	Yes	5.0 - Pending Closure	731 W BROADWAY	PHILIPSBURG	5/12/2005	
<a href="#">2690</a>	FRONT STREET CONOCO #817	No	5.0 - Pending Closure	242 FRONTAGE RD E	DRUMMOND	7/23/1991	5/20/2009
<a href="#">3614</a>	GRANITE COUNTY ROAD DEPT HALL #4230	No		MT HIGHWAY 1	HALL	6/17/1999	5/12/2000
<a href="#">3615</a>	GRANITE COUNTY ROAD DEPT PHILIPSBURG #4231	No		SCHOOL HILL RD	PHILIPSBURG	6/16/1999	5/2/2000
<a href="#">3099</a>	GRANITE TIMBER INC #3234	Yes	2.0 - Medium Priority Characterization	34 METESH LN	PHILIPSBURG	7/8/1997	
<a href="#">3002</a>	INTERMOUNTAIN BUS DEPOT #3145	No		7 MAIN ST	ANACONDA	5/14/1997	4/14/1998
<a href="#">343</a>	LTS RODS & CUSTOMS #3000	No		600 E PARK AVE	ANACONDA	9/11/1996	1/28/1997
<a href="#">3004</a>	MONTANA MUFFLER #3147	No		901 W PARK AVE	ANACONDA	5/7/1997	11/17/1997
<a href="#">1887</a>	MT DEPT HWY DRUMMOND SHOP #127	Yes	1.1 - High Priority/Emergency response	MT HIGHWAY 1	DRUMMOND	9/22/1989	
<a href="#">1345</a>	MT DEPT HWY DRUMMOND SHOP #1996	No		MT HIGHWAY 1	DRUMMOND	12/1/1993	1/9/1996
<a href="#">2120</a>	OLD BLACKSMITH SHOP #2164	No			HALL	3/23/1994	9/10/1996
<a href="#">719</a>	PETES CONOCO & TIRE #171	No		311B AYERS ST	ANACONDA	12/13/1989	5/29/1991
<a href="#">509</a>	RDM MULTI ENTERPRISES INC #3073	No		105 N Silver St	ANACONDA	11/25/1996	1/2/1997
<a href="#">646</a>	ROAD & POLICE DEPT #2656	No		800 MAIN ST	ANACONDA	7/27/1995	4/2/1997
<a href="#">4041</a>	SITE 8069 #4061	No		MULLAN TRAIL RD	DRUMMOND	9/28/2001	10/29/2004
<a href="#">3340</a>	STUARTS GEORGETOWN LANDING #3464	No		14411 MT HIGHWAY 1 W	ANACONDA	7/14/1998	10/13/1998
<a href="#">3472</a>	STUARTS GEORGETOWN LANDING #3598	Yes	1.4 - High Priority Characterization	14411 MT HIGHWAY 1 W	ANACONDA	11/19/1998	
<a href="#">301</a>	SUNSHINE STATION 417 #3004	No		3830 MT HIGHWAY 1	PHILIPSBURG	8/24/1996	9/27/1996
<a href="#">213</a>	TEDS GAS & REPAIR SERVICE INC #393	No		701 E PARK AVE	ANACONDA	9/24/1990	10/30/1991
<a href="#">2133</a>	THRIFTWAY SUPER STOP 3 #399	No		1420 E PARK AVE	ANACONDA	9/27/1990	4/19/1995
<a href="#">2638</a>	TOWN PUMP INC ANACONDA 1 #2440	No		OLD HIGHWAY 10A E	ANACONDA	11/17/1994	8/22/1996
<a href="#">4377</a>	TOWN PUMP INC ANACONDA 1 #4377	No		OLD HIGHWAY 10A E	ANACONDA	11/4/2004	6/14/2005
<a href="#">2872</a>	TOWN PUMP INC ANACONDA 2 #984	No		819 W PARK AVE	ANACONDA	5/14/1991	10/19/1994
<a href="#">1914</a>	WILLIAM E ARVISH #685	No		2814 MT Highway 1 W	ANACONDA	4/2/1991	3/17/1993

## Underground Storage Tank Facilities

[Click here to close window and return to map.](#)

## Search Area:

Highway = MT1, with a buffer of 0.5 Miles

There are 119 underground tank facilities in the study area.

Data last retrieved from DEQ on 11/8/2010 9:00:31 AM

## Data Description

This report is a list of underground storage tank facility records found in the search area from the Waste and Underground Tank Bureau, Permitting and Compliance Division, Montana DEQ. The report has links to a more detailed report for each record.

The data available from this site does not represent all of DEQ's data. Data on this site is summary information for a few selected programs and resides in databases located with the Remediation Division of the DEQ. This data should be used for planning purposes only. Geographic location accuracy of all sites presented here should be verified by the user. Data on this site is typically uploaded from DEQ to NRIS once per week (every Friday night). More detailed, hardcopy information and reports are available from the DEQ and PTRCB libraries and may be viewed and obtained during regular business hours.

Facility ID (Click link to view details)	Name	Address	City	ZIP	Active Tanks
<a href="#">1201470</a>	A & A TECHNICAL REPAIR INC	701 E PARK AVE	ANACONDA	59711	
<a href="#">1213603</a>	AFFCO INC	E 6TH ST & JEFFERSON ST	ANACONDA	59711	
<a href="#">1200411</a>	ALBERT CLARK	208 POWELL ST	ANACONDA	59711	
<a href="#">1206538</a>	ALLYN R HARRIS	5010 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">1213163</a>	ANACONDA A O H BUILDING INC	106 CHERRY ST	ANACONDA	59711	
<a href="#">1202442</a>	ANACONDA CITY HALL	400 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">6015073</a>	ANACONDA DEER LODGE COUNTY MAIN STREET ROW	13 Main Street	Anaconda	59711	
<a href="#">1202147</a>	ANACONDA DISPOSAL SERVICE INC	110 N MAIN ST	ANACONDA	59711	
<a href="#">1205249</a>	ANACONDA POST & POLE INC	3715 N Cable Rd	ANACONDA	59711	
<a href="#">1208759</a>	ANACONDA RADIO MICROWAVE SITE	LOST CREEK RD	ANACONDA	59711	
<a href="#">1201423</a>	ANACONDA SERVICE CENTER	1000 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">1206090</a>	ANACONDA UNIT HEADQUARTERS DSL	7916 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">1202619</a>	ARBITER PLANT	605 ARBITER PLANT LN	ANACONDA	59711	
<a href="#">1202149</a>	ARTHUR C GROSVOLD		ANACONDA	59711	
<a href="#">1205933</a>	ARTHUR C KLEMMANN	214 MOUNTAIN VIEW ST	ANACONDA	59711	
<a href="#">1210912</a>	ATLANTIC RICHFIELD COMPANY	105 N Silver St	ANACONDA	59711	
<a href="#">1200255</a>	BERT L WICKE	511 STEWART ST	ANACONDA	59711	
<a href="#">1206533</a>	BERT WISE CONOCO	627 E PARK AVE	ANACONDA	59711	
<a href="#">2009544</a>	BN DRUMMOND	US HIGHWAY 10A	DRUMMOND	59832	
<a href="#">2009545</a>	BN DRUMMOND MICROWAVE		DRUMMOND	59832	
<a href="#">2006010</a>	BOWEN SERVICE INC	731 W BROADWAY	PHILIPSBURG	59858	
<a href="#">1200611</a>	BOWMAN CAMP	GEORGETOWN LAKE RD	ANACONDA	59711	
<a href="#">1207752</a>	BPA ANACONDA SUBSTATION		ANACONDA	59711	
<a href="#">2000415</a>	BUCK RANCH		HALL	59837	
<a href="#">1213585</a>	BUCK RESIDENCE	713 STEWART ST	ANACONDA	59711	
<a href="#">1203623</a>	BURTON H COLWELL	9811 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">1200248</a>	BUTCHS SERVICE	423 W PARK AVE	ANACONDA	59711	
<a href="#">2000850</a>	CANYON BAR	19 B ST	DRUMMOND	59832	
<a href="#">2010900</a>	CEDAR LANE RANCH		HALL	59837	
<a href="#">2001748</a>	CLARENCE L WALTER		HALL	59837	
<a href="#">1201879</a>	CLASSIC CLEANERS	1621 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">5613925</a>	COMMUNITY HOSPITAL & NURSING HOME OF ANACONDA	401 W PENNSYLVANIA ST	ANACONDA	59711	
<a href="#">1213484</a>	COPPER CITY SHEET METAL	109 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">1202238</a>	DADS GAS STATION DEFUNCT	W PARK AVE & HICKORY ST	ANACONDA	59711	
<a href="#">2001789</a>	DALTON MORSE		DRUMMOND	59832	
<a href="#">1207150</a>	DEE MOTOR CO	1200 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">1208599</a>	DISCOVERY BASIN	GEORGETOWN LAKE RD	ANACONDA	59711	
<a href="#">2007525</a>	EAGLE STUD MILL INC		HALL	59837	
<a href="#">2011600</a>	EARL MARTIN	109 EDWARDS ST	DRUMMOND	59832	
<a href="#">2012704</a>	ED SCHAEFFER		DRUMMOND	59832	
<a href="#">1201926</a>	EDWARD A DALLASERRA	1603 N CABLE RD	ANACONDA	59711	
<a href="#">1204411</a>	ERICKSONS AUTO REPAIR	624 E PARK AVE	ANACONDA	59711	
<a href="#">2006011</a>	FESSLER BROS GARAGE	2 HOLLAND ST	PHILIPSBURG	59858	
<a href="#">1201531</a>	FIRST INTERSTATE BANK OF MONTANA ANACONDA	1121 E PARK AVE	ANACONDA	59711	
<a href="#">2005810</a>	FISCHERS CHEV		DRUMMOND	59832	
<a href="#">1201160</a>	FITZGERALD MOTORS	204 E COMMERCIAL AVE	ANACONDA	59711	
<a href="#">2008087</a>	FLINT CREEK RANCH		PHILIPSBURG	59858	
<a href="#">2005514</a>	FOLEYS QUALITY SERVICE & SUPPLY UST	MT HIGHWAY 1	HALL	59837	
<a href="#">1201145</a>	FORMER YOUNG MOTOR CO	301 MAIN ST	ANACONDA	59711	
<a href="#">2007558</a>	FORREST & JO JOHNSON	12 Porters Corner Ln	PHILIPSBURG	59858	
<a href="#">2006570</a>	FRONT STREET CONOCO	242 FRONTAGE RD E	DRUMMOND	59832	
<a href="#">2006548</a>	GEM MOUNTAIN SAPPHIRE		PHILIPSBURG	59858	
<a href="#">2003882</a>	GENE M ALLEN		DRUMMOND	59832	
<a href="#">2007737</a>	GEORGE A RICHARDSON		DRUMMOND	59832	
<a href="#">1203051</a>	GEORGETOWN BOAT CLUB	GEORGETOWN LAKE RD	ANACONDA	59711	
<a href="#">1212896</a>	GEORGETOWN LANDING	14411 MT HIGHWAY 1 W	ANACONDA	59711	
<a href="#">2008540</a>	GRANITE COUNTY ROAD DEPT HALL	MT HIGHWAY 1	HALL	59837	
<a href="#">2005275</a>	GRANITE COUNTY ROAD DEPT PHILIPSBURG	SCHOOL HILL RD	PHILIPSBURG	59858	
<a href="#">2001708</a>	GRANITE SPORTLAND INC	728 W BROADWAY ST	PHILIPSBURG	59858	
<a href="#">2013773</a>	GRANITE TIMBER INC	34 METESH LN	PHILIPSBURG	59858	
<a href="#">1211752</a>	HAROLD E LEVENGOOD		ANACONDA	59711	
<a href="#">2001922</a>	HOGANS RANCH & BUILDERS SUPPLY	100 W MAIN ST	HALL	59837	
<a href="#">1202237</a>	INTERMOUNTAIN BUS DEPOT	7 MAIN ST	ANACONDA	59711	
<a href="#">1202439</a>	INTERMOUNTAIN TRANSPORTATION CO INC	922 W 3RD ST	ANACONDA	59711	
<a href="#">2011045</a>	JENSEN RANCH CO		HALL	59837	



1205404	JOE F KANDUCH & SONS INC	6811 US HIGHWAY 10A W	PHILIPSBURG	59858
2010880	JOHN A CONN RANCH		HALL	59837
1200811	JOHN J BLEILE SR	500 S SIDNEY ST	ANACONDA	59711
2001609	JOHN MARYWELL		HALL	59837
2004793	JOHN SUMMERS	14103 US HIGHWAY 10W	ANACONDA	59711
1203878	JOHN T & CHARLOTTE E O'DONNELL	3008 N CABLE RD	ANACONDA	59711
1201235	JOHN W MONAHAN	301 E 3RD ST	ANACONDA	59711
2003978	JOHNSON TUNING FORK RANCH		HALL	59837
3908726	KENNEALLY CABINS	GEORGETOWN LAKE RD	ANACONDA	59711
6015172	KUDZIA FAMILY UST	520 Main St	ANACONDA	59711
2009918	LACEY HEREFORD RANCHES INC	62 GRASSLAND DR	DRUMMOND	59832
2005515	LEONARD E BRAY		HALL	59837
1204905	LTS RODS & CUSTOMS	600 E PARK AVE	ANACONDA	59711
2006645	MARSHALL CREEK RANCH INC	MARSHALL CREEKS RD	PHILIPSBURG	59858
1203501	MATTS CONOCO	200 W PARK AVE	ANACONDA	59711
2009294	MDOT 11 2006 DRUMMOND SHOP	MT HIGHWAY 1	DRUMMOND	59832
1201063	MDOT ANACONDA	717 E FRONT ST	ANACONDA	59711
1213480	MDOT ANACONDA CARPET SHOP	320 E COMMERCIAL AVE	ANACONDA	59711
2009295	MDOT PHILIPSBURG		PHILIPSBURG	59858
1201123	MODERN CLEANERS	417 E PARK AVE	ANACONDA	59711
1201407	MONTANA MUFFLER	901 W PARK AVE	ANACONDA	59711
1204822	NAZER & SON TOWING INC	500 MONROE ST	ANACONDA	59711
2013100	OLD BLACKSMITH SHOP		HALL	59837
2002201	OPEN CROSS RANCH INC	18 Open Cross Ranch Rd	HALL	59837
1201361	PARK MOTORS LLC	300 E COMMERCIAL AVE	ANACONDA	59711
1207941	PETES CONOCO & TIRE	311B AYERS ST	ANACONDA	59711
2009454	PHILIPSBURG RANGER STATION	88 BUSINESS LOOP	PHILIPSBURG	59858
5613983	PINTLER PETROLEUM INC	906 W BROADWAY RD	PHILIPSBURG	59858
1201253	PIONEER CONCRETE GRAVEL PLANT		ANACONDA	59711
1205773	PJT STOP 2	900 E COMMERCIAL AVE	ANACONDA	59711
1205876	RARUS RAILWAY CO	900 W COMMERCIAL AVE	ANACONDA	59711
2002761	RESIDENCE DRUMMOND		DRUMMOND	59832
1204355	ROAD & POLICE DEPT	800 MAIN ST	ANACONDA	59711
2001125	ROBERT D SACKMAN		DRUMMOND	59832
1200557	ROBERT G WOLTER	15 FAIRVIEW ST N	ANACONDA	59711
2000662	ROCKING CHAIR RANCH		PHILIPSBURG	59858
1210374	RUTH BENNETT	2907 STUMPTOWN RD	ANACONDA	59711
2011653	SCHOOL BUS BARN	W MAIN ST	DRUMMOND	59832
5614021	SITE 8069	MULLAN TRAIL RD	DRUMMOND	59832
2005771	SUNSHINE STATION 417	3830 MT HIGHWAY 1	PHILIPSBURG	59858
1202793	TED KUBERICH DECEASED	822 E PARK AVE	ANACONDA	59711
1207938	THRIFTWAY SUPER STOP 3	1420 E PARK AVE	ANACONDA	59711
1200101	THRIFTWAY SUPER STOP 7	2035 W PARK AVE	ANACONDA	59711
1200882	TONY QUICK INC		ANACONDA	59711
1209326	TOWN PUMP INC ANACONDA 1	OLD HIGHWAY 10A E	ANACONDA	59711
1208668	TOWN PUMP INC ANACONDA 2	819 W PARK AVE	ANACONDA	59711
1207367	TUSS RESIDENCE	4 STEWART ST	ANACONDA	59711
1210901	WADE THOMAS RUTT	5317 MT HIGHWAY 1 W	ANACONDA	59711
1204910	WASHOE PARK TROUT HATCHERY	600 W PENNSYLVANIA ST	ANACONDA	59711
2010820	WH RANCH CO	95 HENDERSON CREEK RD	HALL	59837
2010997	WIGHT RANCH	27 Wight Mountain Ln	HALL	59837
1204891	WILLIAM E ARVISH	2814 MT Highway 1 W	ANACONDA	59711
2002191	WINNINGHOFF MOTORS INC 906 W BROADWAY	906 W BROADWAY RD	PHILIPSBURG	59858
2002738	WM R OHRMANN	6155 OLD US HIGHWAY 10A	DRUMMOND	59832

# Remediation Response Sites - PHASE 1

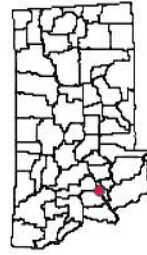
Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2   Pan   Full Extent



This map is 4.25 miles wide. Photo Date: 8/14/2005

Location Map



Data Reports

[Remediation Response Sites](#)

Description

[Click Here](#)

[Download Remediation Response Sites Shape File](#)

Identify   Legend   Metadata

- Remediation Response Sites
- State Superfund Program
- Water Quality Act
- Agricultural Chemical
- Groundwater Protection Act
- Voluntary Cleanup and Redevelopment
- Hazardous Waste Act
- Abandoned Mines Act
- Metal Mine Reclamation Act
- Solid Waste Management Act
- Underground Storage Tank Act
- Brownfields
- Enforcement Site

Yes

Owner Parcels

Yes

County

Yes

Highways

- Interstate Route
- U.S. Route
- Montana Route
- Secondary Route

Yes

Town Population

- 0-100
- 101-1,000
- 1,001-5,000
- Over 5,000

Yes

Streams

- Major river or stream
- Other stream
- Un-named stream

Yes

Water Body

- Lake/Pond
- Swamp/Marsh
- Glacier

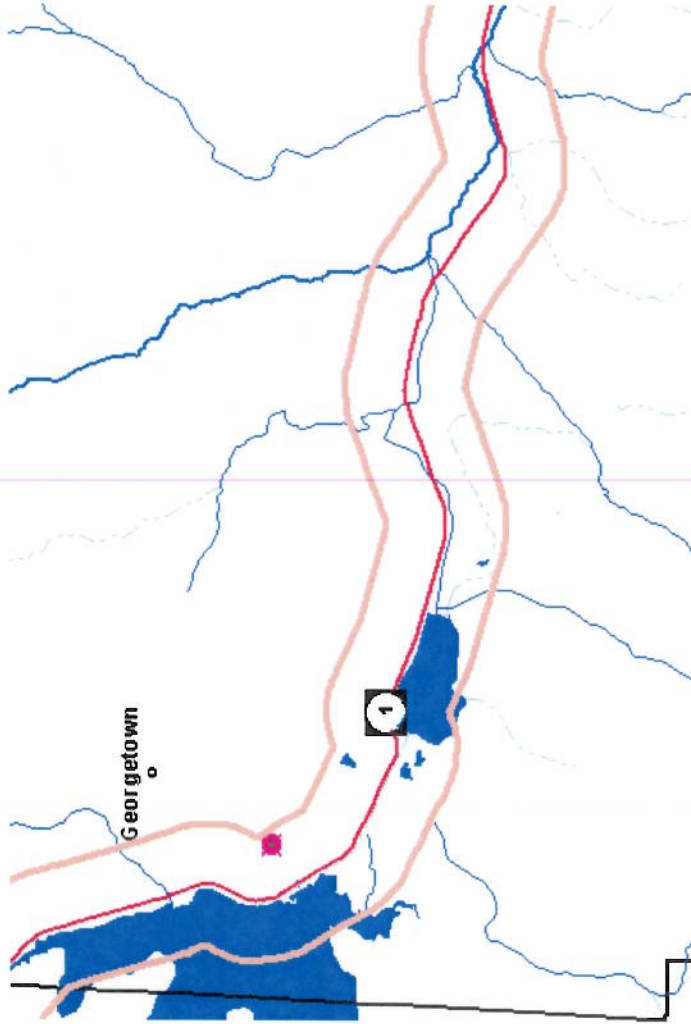
Yes



# Remediation Response Sites - Phase 2

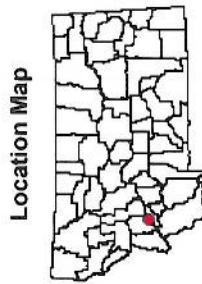
Selection Info: Highway = MT1, with a buffer of 0.5 Miles

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This map is 8.5 miles wide.

Data Reports  
[Remediation Response Sites](#)  
[Click Here](#)



[Download Remediation Response Sites Shape File](#)

Identify   Legend   Metadata

<p><b>Remediation Response Sites</b></p> <ul style="list-style-type: none"> <li>State Superfund Program</li> <li>Federal Superfund Program</li> <li>Water Quality Act</li> <li>Agricultural Chemical</li> <li>Groundwater Protection Act</li> <li>Voluntary Cleanup and Redevelopment</li> <li>Hazardous Waste Act</li> <li>Abandoned Mines Act</li> <li>Metal Mine Reclamation Act</li> <li>Solid Waste Management Act</li> <li>Underground Storage Tank Act</li> <li>Brownfields</li> <li>Enforcement Site</li> </ul>	Yes
<p><b>County</b></p> <ul style="list-style-type: none"> <li>County</li> </ul>	Yes
<p><b>Highways</b></p> <ul style="list-style-type: none"> <li>Interstate Route</li> <li>U.S. Route</li> <li>Montana Route</li> <li>Secondary Route</li> </ul>	Yes
<p><b>Town Population</b></p> <ul style="list-style-type: none"> <li>0-100</li> <li>101-1,000</li> <li>1,001-5,000</li> <li>Over 5,000</li> </ul>	Yes
<p><b>Streams</b></p> <ul style="list-style-type: none"> <li>Major river or stream</li> <li>Other stream</li> <li>Un-named stream</li> </ul>	Yes



## Remediation Response Site Report

Data last retrieved from DEQ on 11/8/2010 9:00:31 AM

**Site ID:** [GTRR](#)**Names:** Georgetown Railroad,**Description:** Abandoned railroad spur line/bed in mining district with mine waste piles, tailings, slag and ballast material.**Site Type:** Brownfield**Operation:** Operated from 1912 to 1924**State:** MT **County:** Deer Lodge **City:** Georgetown **Location:** East of Highway 1 and runs north northeast for approx 5.5 miles to Southern Cross**Legal Location:** **Township:** 5N **Range:** 13W **Section:** 17**Latitude:** 46.18444 **Longitude:** -113.25777 **HUC:** 170102020105 -- Flint Creek**Latitude/Longitude Determination Method:** 3 Map Interpolation**Site Cleanup Program Information**

Program	Program Date	Listed	Delisted	State Rank	Referred
BROWN					
CECRA	4/12/1991	6/27/1991		H	
CERCLA	4/12/1991	4/12/1991			

**Site Contaminant Information****Sphere:** Surface Sediment **Contaminant:** Metal/Metalloid**Observed:** Yes **Low Depth:** **Material Volume:****Receptor:** Wetland **Distance:** 0 **Area Impacted:****Remark:** Sediments from wetland adjacent to Georgetown Lake contain elevated As, Ba, Be, Cd, Cr, Co, Cu, Pb, Hg, Ni, Ag, V & Zn. Sediments in North Fork Flint Creek contain 3x background for As & Cu.**Sphere:** Tailings **Contaminant:** Arsenic**Observed:** Yes **Low Depth:** 0 **Material Volume:** 67,000 yd3**Receptor:** Residences, wetlands, surface water **Distance:** **Area Impacted:****Remark:** 2005 sampling by EPA in Hold Fast tailings; SPLP results exceed DEQ-7; total arsenic >40 mg/kg.**Sphere:** Slag **Contaminant:** Arsenic**Observed:** Yes **Low Depth:** 2 **Material Volume:** Unknown**Receptor:** Residences, wetlands, surface water **Distance:** <100' **Area Impacted:** Undetermined**Remark:** Summer 2005 sampling by EPA in railroad bed; SPLP results exceed DEQ-7; total arsenic >40 mg/kg.**Sphere:** Slag **Contaminant:** Lead**Observed:** Yes **Low Depth:** 0 **Material Volume:** Unknown**Receptor:** Residences, wetlands, surface water **Distance:** **Area Impacted:** Undetermined**Remark:** Summer 2005 sampling by EPA in railroad bed. Total lead greater than PRG.**Sphere:** Surface Water **Contaminant:** Metal/Metalloid**Observed:** Yes **Low Depth:** **Material Volume:****Receptor:** Wetland **Distance:** 500' **Area Impacted:****Remark:** Very low levels of As found in samples from North Fork Flint Creek.**Sphere:** Soils **Contaminant:** Metal/Metalloid**Observed:** Yes **Low Depth:** 3 **Material Volume:****Receptor:** Residence **Distance:** 500' **Area Impacted:** 23 ac**Remark:** Elevated As, Ba, Cu, Pb, Hg, Ag, & Zn found in material used as RR ballast. RR ballast with elevated As and Pb found in residential yards.**Sphere:** Waste Rock **Contaminant:** Arsenic**Observed:** Yes **Low Depth:** **Material Volume:** 63,000 yd3**Receptor:** Residences, wetlands, surface water **Distance:** 500' **Area Impacted:****Remark:** 2005 sampling by EPA in waste rock dumps; SPLP results exceed DEQ-7; total arsenic >40 mg/kg.**Site Cleanup Action Information****Start Date:** 4/12/1991 **End Date:** 4/12/1991 **Program:** CERCLA **Report Date:****Description:** CERCLA Discovery - CERCLA Discovery - Entire Site**Purpose:** To evaluate the extent of contamination at the site, potential pathways and receptors, and the site's potential for inclusion on the NPL.**Start Date:** 4/12/1991 **End Date:** 6/13/1991 **Program:** CERCLA **Report Date:** 6/13/1991**Description:** CERCLA Preliminary Assessment - CERCLA Preliminary Assessment - Entire Site**Purpose:** EPA CERCLIS DATA: Higher priority for further assessment

**Start Date:** 4/6/1992 **End Date:** 7/2/1992 **Program:** VOL **Report Date:** 7/2/1992

**Description:** Site Assessment Activities - Soil investigation for MT Dept of Transportation - Areas of site to be affected by Georgetown Lake project F19-1(17)24

**Purpose:** Determine potential hazards during proposed road construction due to contaminated soils.

**Start Date:** 3/15/1993 **End Date:** 9/27/1993 **Program:** CERCLA **Report Date:** 9/17/1993

**Description:** Site Assessment Activities - Site History Report, SAP, field sampling, analytical results report, and site investigation report. - Entire Site

**Purpose:** Fill in data gaps remaining after CERCLA PA and further investigate contamination of soil and surface water; evaluate pathways and receptors; complete a site inspection report.

**Start Date:** 9/27/1993 **End Date:** 9/27/1993 **Program:** CERCLA **Report Date:**

**Description:** Site Assessment Activities - Site Inspection - Entire Site

**Purpose:** EPA CERCLIS Data: Action Code - SI - SITE INSPECTION

**Start Date:** 1/1/1995 **End Date:** 12/31/1995 **Program:** CERCLA **Report Date:**

**Description:** Site Assessment Activities - Exploratory drilling - Southern Cross

**Purpose:** Magellan Resources/North Lily Mining Company, in concert with several joint venture partners conducted exploratory drilling on the property now owned by Southern Cross.

**Start Date:** 1/12/2000 **End Date:** 11/1/2000 **Program:** CERCLA **Report Date:** 11/1/2000

**Description:** Site Assessment Activities - Collection of surface water, groundwater, soil, sediment sampling - Abandoned railroad spur, residential properties, nearby springs, waste pile, and tributaries

**Purpose:** To determine extent of contamination

**Start Date:** 6/19/2000 **End Date:** 11/2/2000 **Program:** CERCLA **Report Date:**

**Description:** Site Assessment Activities - Site Inspection - Entire Site

**Purpose:** EPA CERCLIS Data: Action Code - SI - SITE INSPECTION

**Start Date:** 7/1/2000 **End Date:** 2/6/2001 **Program:** CERCLA **Report Date:** 2/6/2001

**Description:** Site Assessment Activities - Drilling on the tailings and Southern Cross/Hold Fast tailings stability analysis. - Hold Fast tailings impoundment

**Purpose:** Evaluate volume and content of tailings and evaluate underlying native soils for geotechnical stability analysis.

**Start Date:** 7/6/2000 **End Date:** 7/6/2000 **Program:** CERCLA **Report Date:** 7/6/2000

**Description:** Site Assessment Activities - Voluntary look at site and make recommendations - Southern Cross owned land

**Purpose:** To investigate what is present on site and options for cleaning it up at request of owner.

**Start Date:** 8/7/2000 **End Date:** 8/7/2000 **Program:** CERCLA **Report Date:** 12/1/2000

**Description:** Site Assessment Activities - Excavate test pits - Tailings, waste piles, and waste dumps.

**Purpose:** Calculate site specific cleanup levels for arsenic soil for use at Southern Cross mine site.

**Start Date:** 11/15/2001 **End Date:** **Program:** CERCLA **Report Date:**

**Description:** Collection of Seldom Used EPA Action Codes (See Action Purpose Field) - Other Cleanup Activity: State-Lead Cleanup - Entire Site

**Purpose:** EPA CERCLIS Data: Action Code - OS - Other Cleanup Activity: State-Lead Cleanup

**Start Date:** 10/10/2002 **End Date:** **Program:** CECRA **Report Date:** 1/26/2004

**Description:** Site Assessment Activities - Residential area sampling - Residential areas/yards adjacent to railroad bed.

**Purpose:** Characterize extent of arsenic and lead at specific residential properties located adjacent to and downgradient from railroad bed.

**Start Date:** 6/1/2005 **End Date:** **Program:** CECRA **Report Date:**

**Description:** Site Assessment Activities - Collect soil samples from waste piles, tailings & railroad bed for speciation, bioaccessibility and leachability. - Entire Site

**Purpose:** Evaluate waste material speciation, bioaccessibility and leachability for repository placement.

**Start Date:** 7/1/2005 **End Date:** **Program:** CERCLA **Report Date:** 7/19/2005

**Description:** Site Assessment Activities - Southern Cross waste repository slope stability analysis. - Southern Cross mine proposed repository site

**Purpose:** Slope stability analysis for proposed repository site. (See draft Southern Cross repository site characterization and design report - August 1, 2005 Attachment D).

**Start Date:** 7/1/2005 **End Date:** **Program:** CERCLA **Report Date:** 4/20/2007

**Description:** Interim Action - Draft Final Southern Cross Repository Site Characterization & Design Report submitted to EPA by ARCO - Southern Cross

**Purpose:** ARCO's final design report for repository

**Start Date:** 7/31/2007 **End Date:** **Program:** CERCLA **Report Date:** 5/22/2009

**Description:** Interim Action - Removal of mine waste material; anticipate AOC between ARCO and EPA - as of 8/15/2007 AOC not signed; waste repository on Southern Cross LLC property - Southern Cross LLC property: tailings impoundment, waste rock piles; former railroad; residential yards; repository on SCC property

**Purpose:** remove mine waste material w/ arsenic greater than 250 ppm



# GEORGETOWN RAILROAD

Georgetown, Montana

Site Summary

Page 1 of 2

June 8, 2009

Georgetown Railroad, located near Georgetown, is an abandoned railroad spur, which hauled ore to Anaconda from 1912 to 1924. The builders of the railroad used fine-grained mine tailings and waste rock for ballast. This material, coupled with ore spillage from the rail cars, is a potential source of heavy metals contamination of soils and surface water. The Facility also includes mining waste rock and tailings piles in the Southern Cross area.

Approximately five and half miles (approximately 23-acre) of unfenced railroad property passes through residential areas and forest land. In places, the railroad comes within 500 feet of Georgetown Lake and associated wetlands. The North Fork of Flint Creek is down gradient of the railroad.

In November 1990, Jim and Lanora Peterson, heirs to the Emily Lyon property, collected soil samples on their property for metals analysis. The results showed elevated levels of heavy metals.

In April 1991, MDHES completed a CERCLA preliminary assessment to collect information on the site and assess the potential threat to human health and the environment.

In May 1991, MDHES conducted a site investigation, which documented the presence of elevated heavy metals and arsenic in soils along the abandoned railroad.

In April 1992, consultants for the Montana Department of Transportation conducted a site investigation to determine if site contamination could pose hazards during a proposed road construction project. The investigation found elevated levels of metals in some areas of the proposed construction project and recommended certain measures to reduce hazards during and after construction.

A May 1993 CERCLA site investigation by MDHES documented elevated metals and arsenic levels in soils near residences on and down gradient of former railroad property, and in nearby surface water and wetlands.

In June 2000, the US EPA conducted an Expanded Site Investigation to determine the extent of the contamination. Soil, sediment, groundwater, and surface water samples were collected at the site and surrounding areas. The investigation found elevated levels of metals in soil, sediment and surface water samples.

In August 2000, Atlantic Richfield Company (ARCO) voluntarily conducted in vivo analysis of contaminated areas on the Southern Cross Company, LLC owned land to calculate site-specific clean up numbers for the Southern Cross Company land. DEQ (formerly MDHES) has not reviewed or accepted the results of this analysis. In addition, Southern Cross Company, LLC began drilling and digging test pits in the tailings piles located on the Southern Cross owned portion of the site to evaluate content and thickness of the tailings and to evaluate type and depth of native material.

In 2003, ARCO conducted a Residential Area investigation to character and evaluate the extent of lead and arsenic in residential yards. The investigation found lead and arsenic concentrations greater than generic screening levels.

In April 2005 as part of negotiation with the US EPA for a Unilateral Administrative Order (UAO), ARCO submitted Time Critical Removal Action (TCRA) Design Plans to EPA for the removal of ballast material in the abandoned railroad bed and residential yard areas. In August 2005, ARCO submitted a Site Characterization and Repository Design for a repository on Southern Cross Company property.

During the summer of 2006, the US EPA collected samples from the railroad bed material, waste rock piles and tailings pile to evaluate the bioaccessibility and leachability of the material. The results showed that arsenic is bioaccessible and leaches at concentrations greater than DEQ-7/federal Maximum Contaminant Level standards.

In July 2006, the US EPA ended AOC negotiations with ARCO to finalize the TCRA Design Plans and Repository Design. In 2007, ARCO began construction of the repository and removal actions. A single monitoring well was constructed down gradient of the repository.

In 2008, ARCO continued with its removal action. Also in 2008, the TCRA Design Plans and Repository Design was approved by EPA, and ARCO and the EPA signed the AOC. DEQ was not a signatory on the AOC. In 2009, ARCO is expected to conclude its removal action and close the repository. Under its agreement with EPA, ARCO will be

## GEORGETOWN RAILROAD

Georgetown, Montana

Site Summary

Page 2 of 2

responsible for operation and maintenance (O&M) of the repository for a limited time, then transfer O&M responsibilities to Southern Cross Company.

In the spring of 2009, ARCO submitted a construction completion report (CCR) or the TCRA action to EPA. The review of the CCR by EPA is pending.

Because of the rapid growth in the area and due to the elevated concentrations of arsenic and lead, public and local government (Anaconda Deer Lodge County) interest in cleaning up the facility is very high.

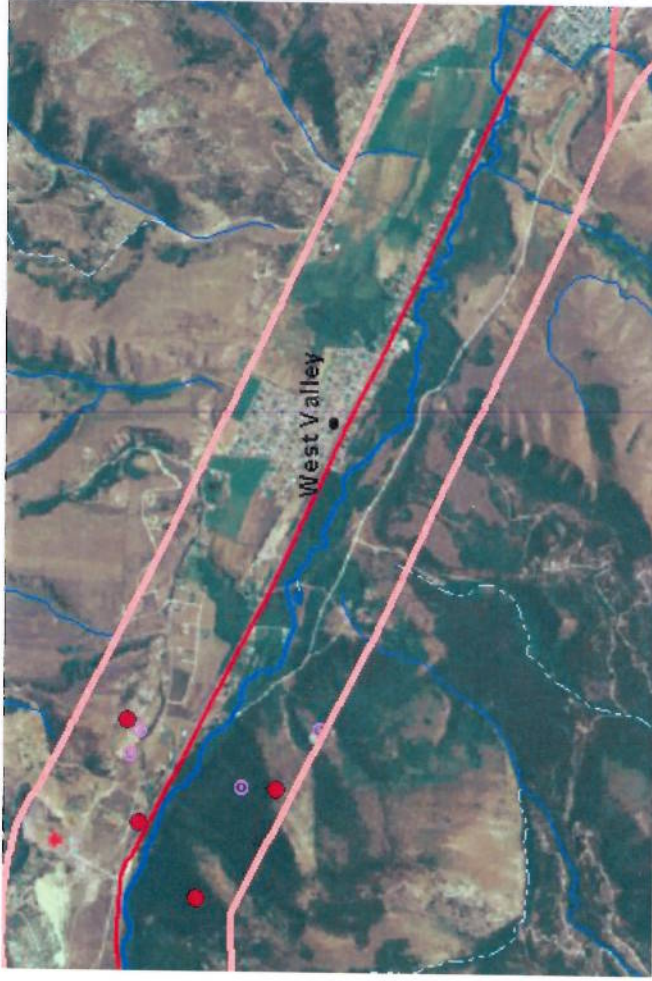
The Montana DEQ CECRA program currently is the lead on the facility and ranked it as high priority.



# Abandoned and Inactive Mines - PHASE-1

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2   Pan   Full Extent



This map is 4.25 miles wide. Photo Date: 8/14/2005

## Location Map



## Data Reports

[DEQ Abandoned Mines Inventory](#)  
[Bureau of Mines & Geology Mine Data](#)  
[Mining Districts Report](#)

## Description

[Click Here](#)  
[Click Here](#)  
[Click Here](#)

[Download Abandoned Mine Inventory Shape File](#)  
[Download Priority Abandoned Mine Points Shape File](#)  
[Download Abandoned/Inactive Mines Shape File](#)  
[Download Mining Districts Shape File](#)

## Identify

### Legend

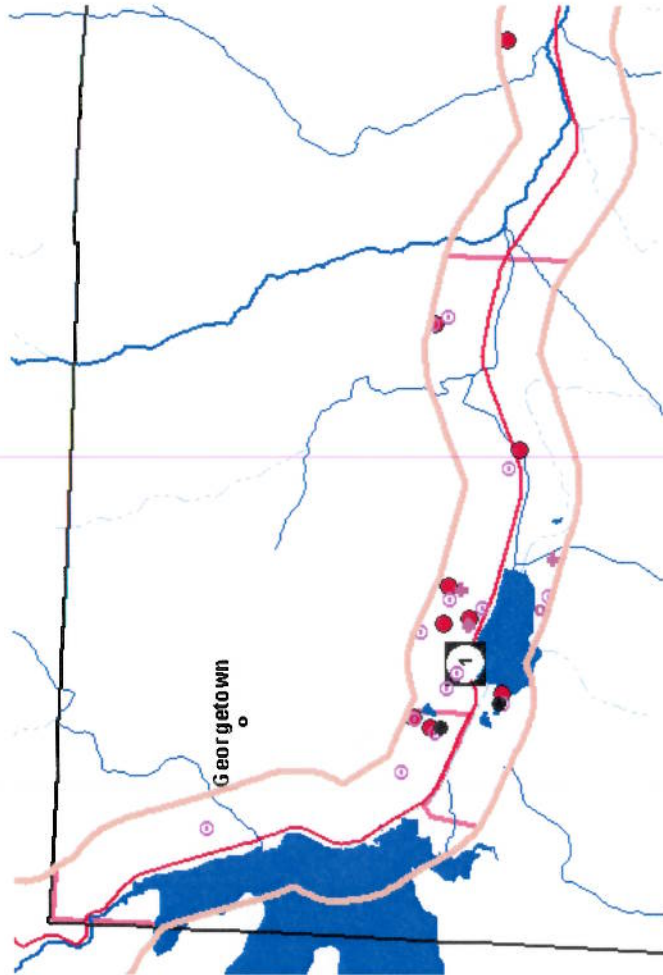
### Metadata

Abandoned Mine Site	Yes
Priority Abandoned Mines (Points for better visibility)	Yes
MBMG Mines Data	
Developed Deposit	
Producer	
Temporary Shutdown	Yes
Past Producer	
Exp Prospect	
Raw Prospect	
Other	
Unknown	
Mining Districts	Yes
County	Yes
Highways	Yes
Interstate Route	
U.S. Route	
Montana Route	
Secondary Route	
Town Population	Yes
0-100	
101-1,000	
1,001-5,000	
Over 5,000	
Streams	Yes
Major river or stream	
Other stream	
Un-named stream	
Water Body	Yes
Lake/Pond	
Swamp/Marsh	
Glacier	

# Abandoned and Inactive Mines - Phase 2

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   [Zoom](#)   [IN](#)   [OUT](#)   [Zoom Factor 2](#)   [Pan](#)   [Full Extent](#)



This map is 8.5 miles wide.

## Location Map



## Data Reports

- [DEQ Abandoned Mines Inventory](#)
- [Bureau of Mines & Geology Mine Data](#)
- [Mining Districts Report](#)

## Description

- [Click Here](#)
- [Click Here](#)
- [Click Here](#)

[Download Abandoned Mine Inventory Shape File](#)

[Download Priority Abandoned Mine Points Shape File](#)

[Download Abandoned/Inactive Mines Shape File](#)

[Download Mining Districts Shape File](#)

## Identify   Legend   Metadata

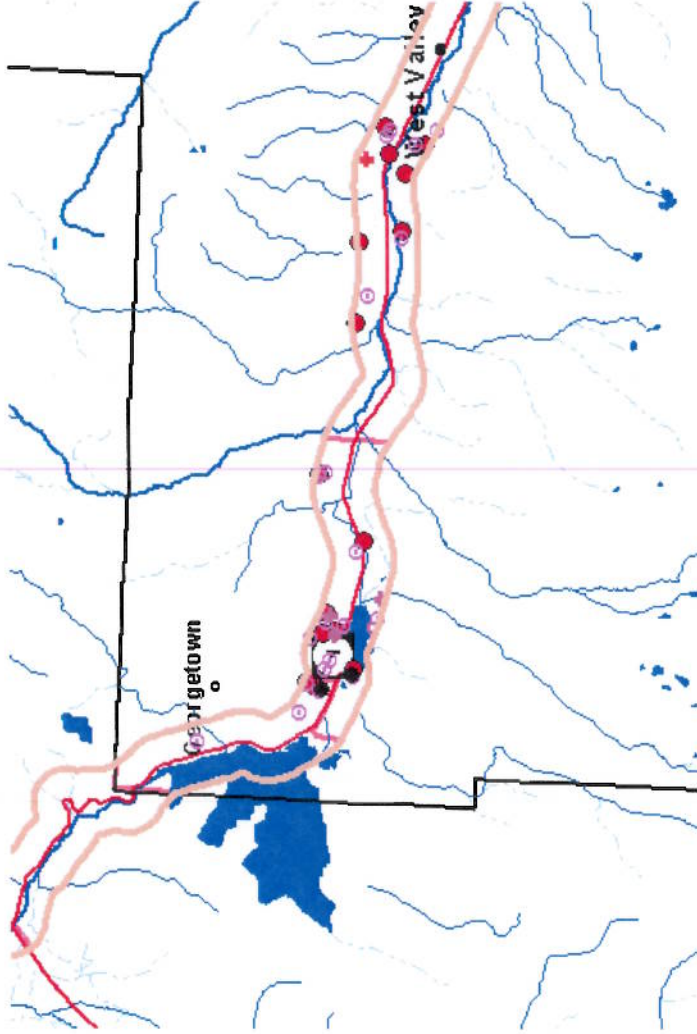
Abandoned Mine Site	Yes
Priority Abandoned Mines (Points for better visibility)	Yes
<b>MBMG Mines Data</b> Developed Deposit Producer Temporary Shutdown Past Producer Exp Prospect Raw Prospect Other Unknown	Yes
Mining Districts	Yes
County	Yes
<b>Highways</b> Interstate Route U.S. Route Montana Route Secondary Route	Yes
<b>Town Population</b> 0-100 101-1,000 1,001-5,000 Over 5,000	Yes
<b>Streams</b> Major river or stream Other stream Un-named stream	Yes
<b>Water Body</b> Lake/Pond Swamp/Marsh Glacier	Yes



## Abandoned and Inactive Mines

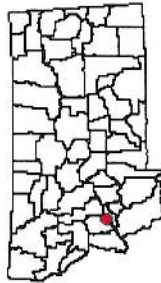
Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor   2   Pan   Full Extent



This map is 17.0 miles wide.

### Location Map



### Data Reports

- [DEQ Abandoned Mines Inventory](#)
- [Bureau of Mines & Geology Mine Data](#)
- [Mining Districts Report](#)
- [Download Abandoned Mine Inventory Shape File](#)
- [Download Priority Abandoned Mine Points Shape File](#)
- [Download Abandoned/Inactive Mines Shape File](#)
- [Download Mining Districts Shape File](#)

### Description

- [Click Here](#)
- [Click Here](#)
- [Click Here](#)

Identify   Legend   Metadata

Abandoned Mine Site	Yes
Priority Abandoned Mines (Points for better visibility)	Yes
<b>MBMG Mines Data</b> Developed Deposit Producer Temporary Shutdown Past Producer Exp Prospect Raw Prospect Other Unknown	Yes
Mining Districts	Yes
County	Yes
<b>Highways</b> Interstate Route U.S. Route Montana Route Secondary Route	Yes
<b>Town Population</b> 0-100 101-1,000 1,001-5,000 Over 5,000	Yes
<b>Streams</b> Major river or stream Other stream Un-named stream	Yes



# EPA CERLIS Sites - PHASE 1

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2   **Pan**   Full Extent



This map is 4.25 miles wide. Photo Date: 8/14/2005

Location Map



Data Reports

[Cerclis List](#)

Description

[Click Here](#)

[Download EPA Superfund Sites Shape File](#)

Identify

Legend

Metadata

EPA Superfund Site

Yes

Hydrologic Unit

Yes

Highways

Interstate Route

U.S. Route

Montana Route

Secondary Route

Yes

Town Population

0-100

101-1,000

1,001-5,000

Over 5,000

Yes

Streams

Major river or stream

Other stream

Un-named stream

Yes

Water Body

Lake/Pond

Swamp/Marsh

Glacier

Yes

[Select a Background Image:](#)

2005 Color Photo

You may view the background image by itself on the [Topofinder](#).

[Click here for a printable version](#)

[HELP](#)

# EPA CERLIS Sites - Phase 2

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List

Zoom

IN

OUT

Zoom Factor 2

Pan

Full Extent

Location Map

Data Reports

Cerclis List

Description

Click Here

Download EPA Superfund Sites Shape File

Identify

Legend

Metadata

EPA Superfund Site

Yes

Hydrologic Unit

Yes

Highways

Interstate Route

U.S. Route

Montana Route

Secondary Route

Yes

Town Population

0-100

101-1,000

1,001-5,000

Over 5,000

Yes

Streams

Major river or stream

Other stream

Un-named stream

Yes

Water Body

Lake/Pond

Swamp/Marsh

Glacier

Yes

Select a Background Image:

None

Click here for a printable version

HELP



# EPA Toxic Release Inventory Sites - PHASE 1

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2   Pan   Full Extent



This map is 4.25 miles wide. Photo Date: 8/14/2005

Location Map



Data Reports

[EPA Toxic Release List](#)

[Download EPA Toxic Release Inventory Shape File](#)

Description

[Click Here](#)

Identify   Legend   Metadata

Toxic Release Site   No

Hydrologic Unit   Yes

**Highways**  
 Interstate Route   Yes  
 U.S. Route  
 Montana Route  
 Secondary Route

**Town Population**  
 0-100   Yes  
 101-1,000  
 1,001-5,000  
 Over 5,000

**Streams**  
 Major river or stream   Yes  
 Other stream  
 Un-named stream

**Water Body**  
 Lake/Pond   Yes  
 Swamp/Marsh  
 Glacier

Select a Background Image:

2005 Color Photo   
 You may view the background image by itself on the [Topofinder](#).

[Click here for a printable version](#)

[HELP](#)

## EPA Toxic Release Inventory Sites - PHASE 2

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

[Back To Data List](#)

[Zoom](#)

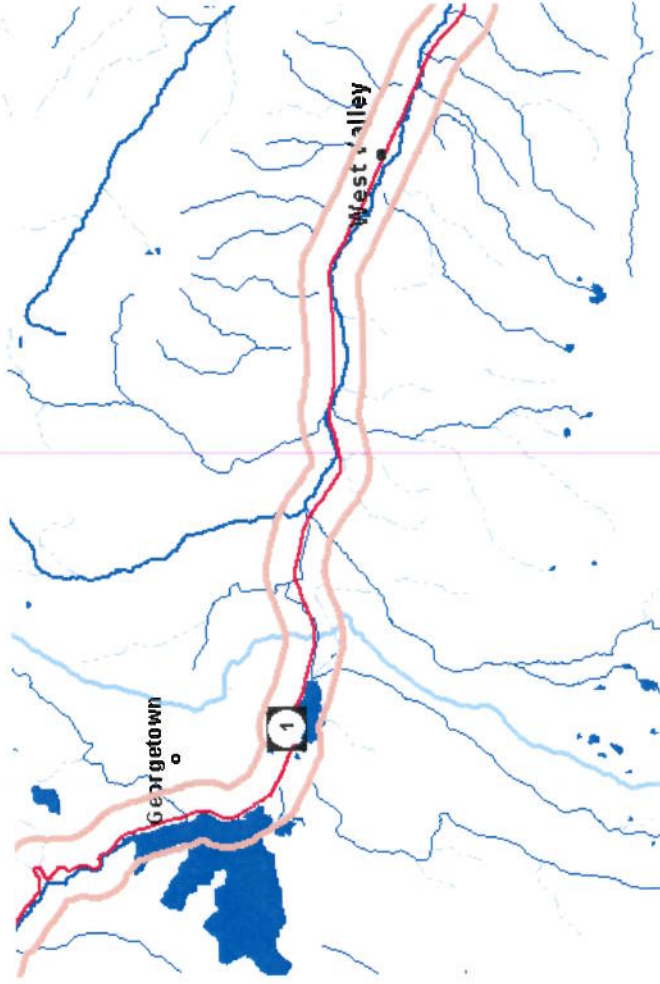
[IN](#)

[OUT](#)

[Zoom Factor 2](#)

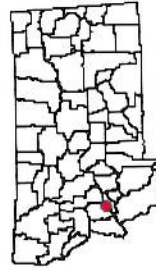
[Pan](#)

[Full Extent](#)



This map is 17.0 miles wide.

[Location Map](#)



[Data Reports](#)

[EPA Toxic Release List](#)

[Download EPA Toxic Release Inventory Shape File](#)

[Description](#)

[Click Here](#)

[Identify](#)

[Legend](#)

[Metadata](#)

☐ Toxic Release Site

No

☐ Hydrologic Unit

Yes

☐ Highways

Interstate Route

U.S. Route

Montana Route

... Secondary Route

Yes

☐ Town Population

0-100

101-1,000

1,001-5,000

Over 5,000

Yes

☐ Streams

Major river or stream

Other stream

Un-named stream

Yes

☐ Water Body

Lake/Pond

Swamp/Marsh

Glacier

Yes

[Select a Background Image:](#)

None

[Click here for a printable version](#)

[HELP](#)



# Crude Oil Pipelines - Phase I

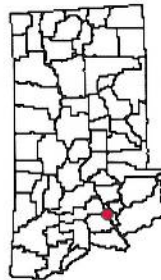
Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2    Pan   Full Extent



This map is 4.25 miles wide. Photo Date: 8/14/2005

Location Map



Data Reports

[Pipeline Summary](#)

[Download Crude Oil Pipelines Shape File](#)

Description

[Click Here](#)

Identify

Legend

Metadata

--- Crude Oil Pipeline

Yes

 Hydrologic Unit

Yes

Highways

--- Interstate Route

--- U.S. Route

--- Montana Route

--- Secondary Route

Yes

Town Population

o 0-100

o 101-1,000

@ 1,001-5,000

@ Over 5,000

Yes

Streams

--- Major river or stream

--- Other stream


--- Un-named stream

Yes

Water Body


 Lake / Pond

 Swamp / Marsh

 Glacier

Yes

[Select a Background Image:](#)

2005 Color Photo 

You may view the background image by itself on the [Topofinder](#).

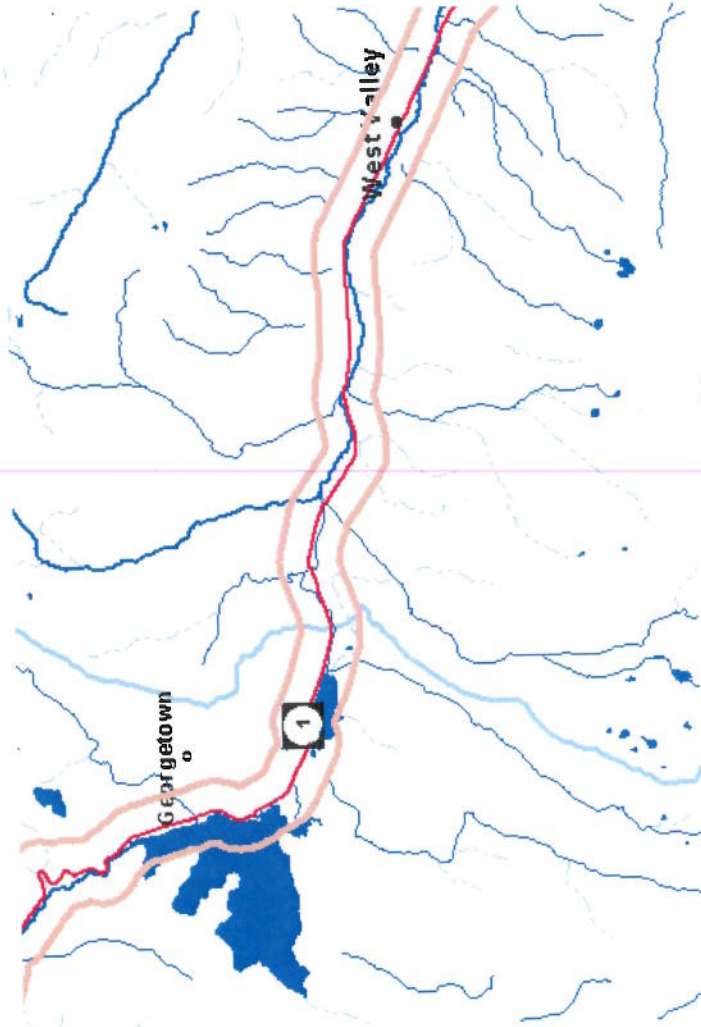
[Click here for a printable version](#)

[HELP](#)

## Crude Oil Pipelines - PHASE 2

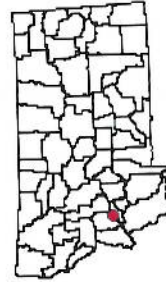
Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   [Zoom](#)   [IN](#)   [OUT](#)   [Zoom Factor 2](#)   [Pan](#)   [Full Extent](#)



This map is 17.0 miles wide.

Location Map



Data Reports

[Pipeline Summary](#)

Description

[Click Here](#)

[Download Crude Oil Pipelines Shape File](#)

Identify   [Legend](#)   Metadata

<a href="#">--- Crude Oil Pipeline</a>	Yes
<a href="#">Hydrologic Unit</a>	Yes
<b>Highways</b> <a href="#">Interstate Route</a> <a href="#">U.S. Route</a> <a href="#">Montana Route</a> <a href="#">Secondary Route</a>	Yes
<b>Town Population</b> <a href="#">0-100</a> <a href="#">101-1,000</a> <a href="#">1,001-5,000</a> <a href="#">Over 5,000</a>	Yes
<b>Streams</b> <a href="#">Major river or stream</a> <a href="#">Other stream</a> <a href="#">Un-named stream</a>	Yes
<b>Water Body</b> <a href="#">Lake/Pond</a> <a href="#">Swamp/Marsh</a> <a href="#">Glacier</a>	Yes

Select a Background Image:

[None](#)  
[Click here for a printable version](#)

[HELP](#)

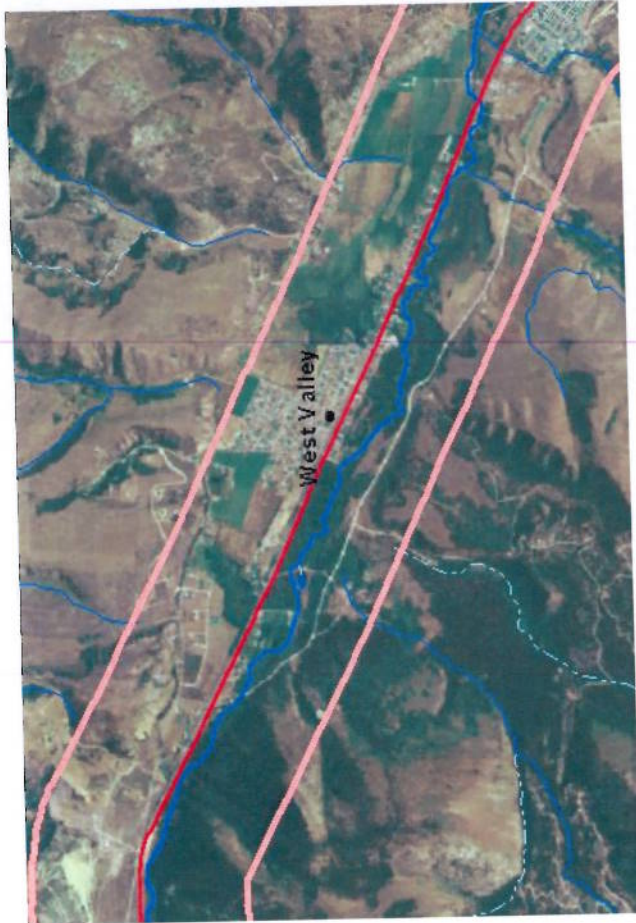


Landfills

Landfills - PHASE 1

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List   Zoom   IN   OUT   Zoom Factor 2   Pan   Full Extent



This map is 4.25 miles wide. Photo Date: 8/14/2005

Location Map



Data Reports

Landfill Summary

[Download Landfills Shape File](#)

Description

[Click Here](#)

Identify   Legend   Metadata

<b>Landfills</b> Open Closed	Yes
<b>Hydrologic Unit</b> 	Yes
<b>Highways</b> Interstate Route U.S. Route Montana Route ... Secondary Route	Yes
<b>Town Population</b> 0-100 101-1,000 1,001-5,000 Over 5,000	Yes
<b>Water Body</b> Lake/Pond Swamp/Marsh Glacier	Yes
<b>Streams</b> Major river or stream Other stream Un-named stream	Yes

Select a Background Image:

2005 Color Photo

You may view the background image by itself on the Topofinder.

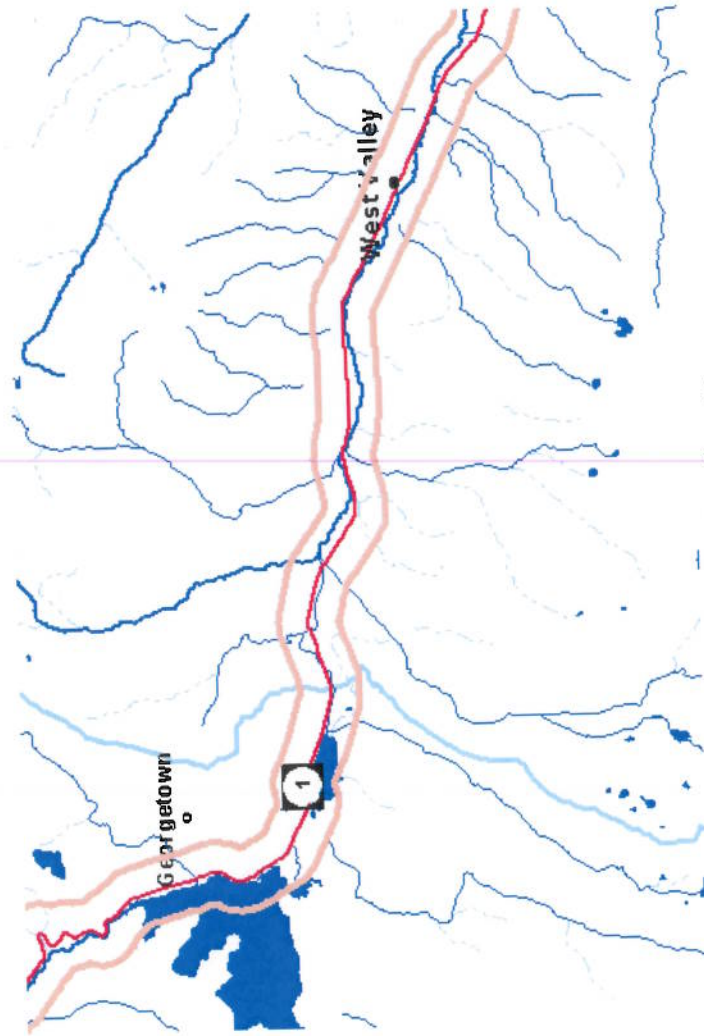
[Click here for a printable version](#)

[HELP](#)

# Landfills - PHASE 2

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List    Zoom    IN    OUT    Zoom Factor 2    ■ Pan    Full Extent



This map is 17.0 miles wide.

Description

[Click Here](#)

Data Reports

[Landfill Summary](#)

[Download Landfills Shape File](#)

Location Map



Identify    Legend    Metadata

**Landfills**  
 Open  
 Closed

Yes

 Hydrologic Unit

Yes

**Highways**  
 Interstate Route  
 U.S. Route  
 Montana Route  
 Secondary Route



Yes

**Town Population**  
 0-100  
 101-1,000  
 1,001-5,000  
 Over 5,000

Yes

**Water Body**  
 Lake/Pond  
 Swamp/Marsh  
 Glacier

Yes

**Streams**  
 Major river or stream  
 Other stream  
 Un-named stream

Yes

Select a Background Image:

None ■

[Click here for a printable version](#)

[HELP](#)



# Railroad Right-of-Way - PHASE 1

Selection Info: Highway = MT1, with a buffer of 0.5 Miles

Back To Data List    Zoom    IN    OUT    Zoom Factor 2      Pan



This map is 4.25 miles wide. Photo Date: 8/14/2005

Location Map



Data Reports

[Railroad Summary](#)

[Download Railroads Shape File](#)

Description

[Click Here](#)

Identify

Legend

Metadata

.... Railroad

Yes

  Hydrologic Unit

Yes

Highways

Interstate Route

U.S. Route

Montana Route

... Secondary Route

Yes

Town Population

o 0-100

• 101-1,000

@ 1,001-5,000

⊙ Over 5,000

Yes

Water Body

Lake/Pond

Swamp/Marsh

Glacier

Yes

Streams

Major river or stream

Other stream

Un-named stream

Yes

[Select a Background Image:](#)

2005 Color Photo  

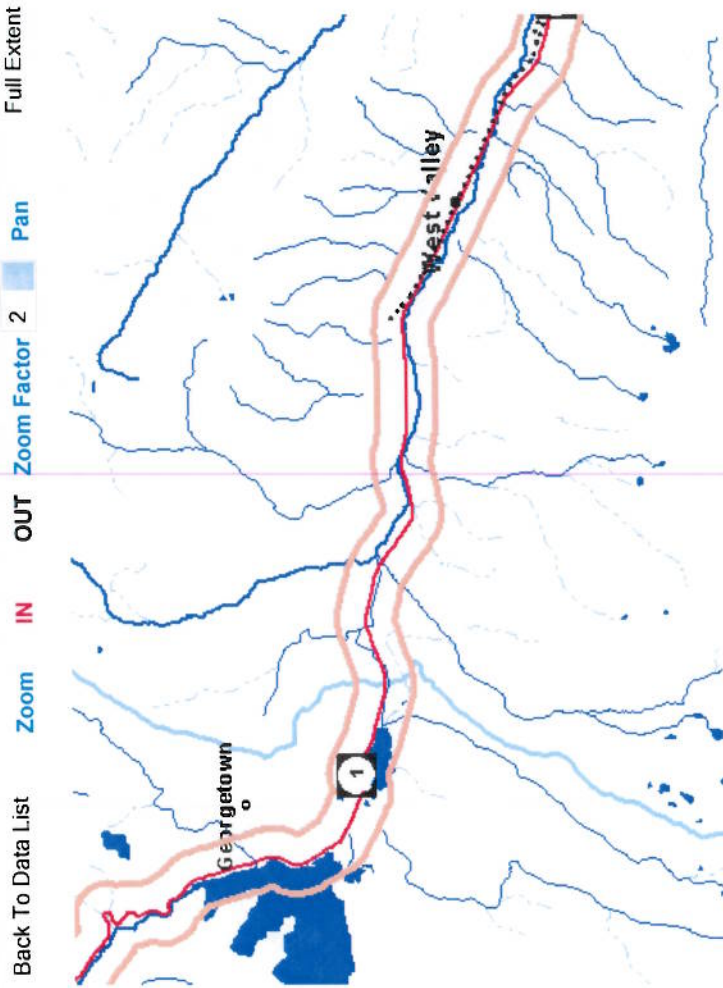
You may view the background image by itself on the [Topofinder](#).

[Click here for a printable version](#)

[HELP](#)

# Railroad Right-of-Way - Phase 2

Selection Info: Highway = MT1, with a buffer of 0.5 Miles



This map is 17.0 miles wide.

Location Map



Data Reports

[Railroad Summary](#)

[Download Railroads Shape File](#)

Description

[Click Here](#)

Full Extent

[Pan](#)

[Zoom Factor 2](#)

[OUT](#)

[IN](#)

[Zoom](#)

[Back To Data List](#)

Identify

Legend

Metadata

.... Railroad

Yes

Hydrologic Unit

Yes

Highways  
Interstate Route  
U.S. Route  
Montana Route  
... Secondary Route

Yes

Town Population  
o 0-100  
• 101-1,000  
@ 1,001-5,000  
⊕ Over 5,000

Yes

Water Body  
Lake/Pond  
Swamp/Marsh  
Glacier

Yes

Streams  
Major river or stream  
Other stream  
Un-named stream

Yes

Select a Background Image:

None

[Click here for a printable version](#)

[HELP](#)

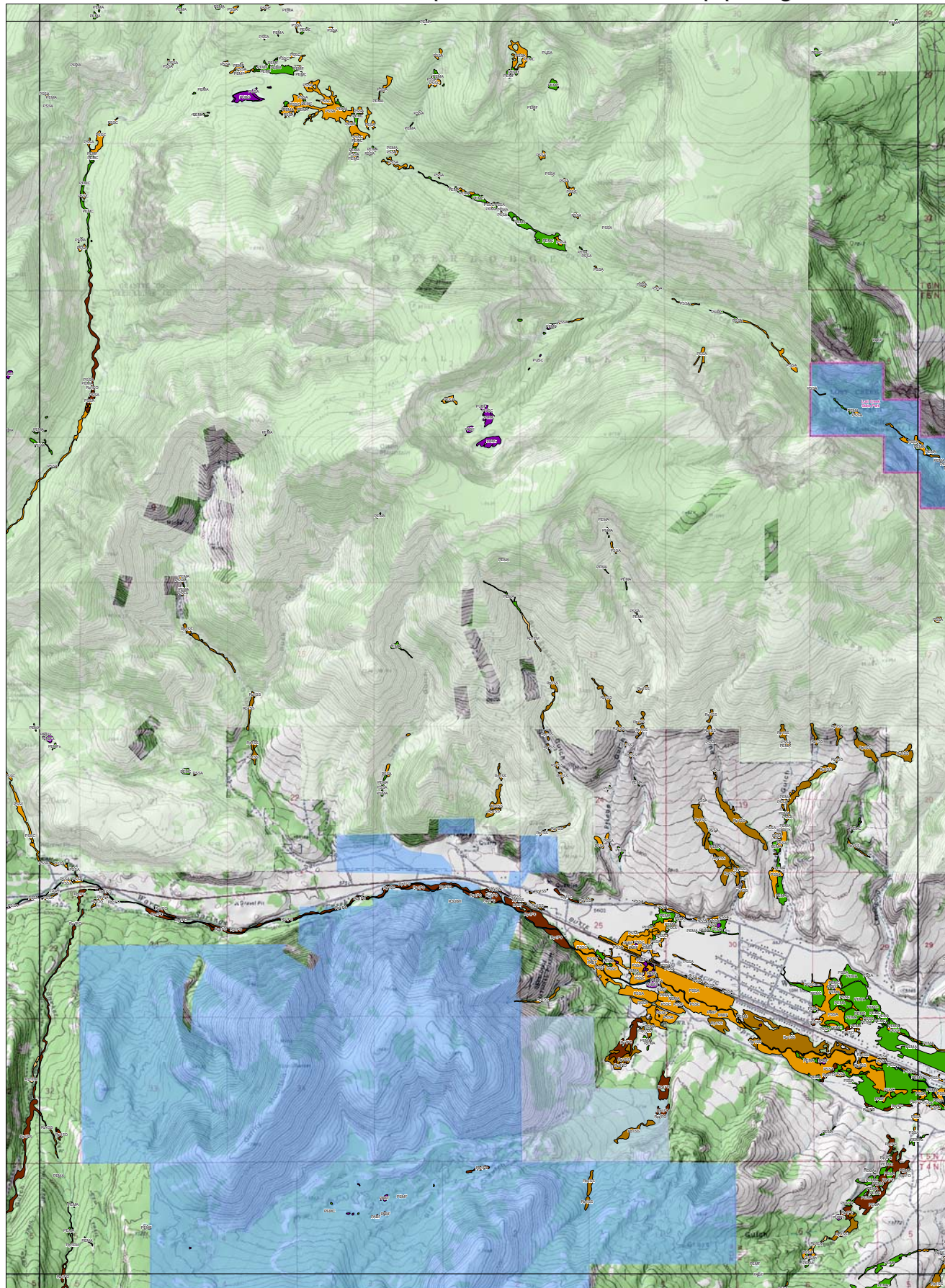
Appendix E:  
2008 Water Quality Information from DEQ's Clean Water Act  
Information Center

Aquatics

Wetland



# Wetland and Riparian Area Mapping



**Wetland and Riparian Mapping**

- Lacustrine
- Freshwater Pond
- Freshwater Emergent Wetland
- Freshwater Shrub Wetland
- Freshwater Forested Wetland
- Riverine
- Riparian Emergent
- Riparian Shrub
- Riparian Forested

**Ownership**

- Special Designations
- Conservation Easements
- US Bureau of Land Management
- US Bureau of Reclamation
- US Fish and Wildlife Service
- National Park Service
- US Forest Service
- USDA (Ag Research Stations)
- Army Corps of Engineers
- Other Department of Defense
- Undifferentiated State
- State Trust Lands
- Montana Fish, Wildlife & Parks
- State -- University, Institutions, MDT
- DNRC (Water Project Lands)
- Local Government
- US Bureau of Indian Affairs Trust Lands
- Tribal Lands
- Plum Creek Timber Company
- Private Land Trusts

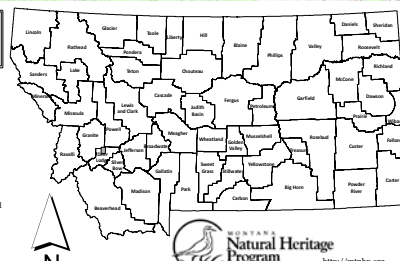
Quad Code - 4611321  
Quad Name - West Valley

The MTHNP wetland and riparian mapping has gone through two stages of internal review. It has been field verified and approved by the U.S. Fish and Wildlife Service's (USFWS) National Wetland Inventory (NWI). Finalized mapping is available for download from the USFWS as well as from NTHS.

The wetland and riparian mapping is not an exhaustive or comprehensive inventory of wetland and riparian areas within the mapping boundary. Field verification of the absence or presence of wetland and riparian areas will always be an important obligation of users of our data. Additionally, the NWI definition of a wetland is more inclusive than the definition of a jurisdictional wetland, and thus the wetland boundaries shown in our dataset cannot substitute for boundaries mapped in a wetland delineation.

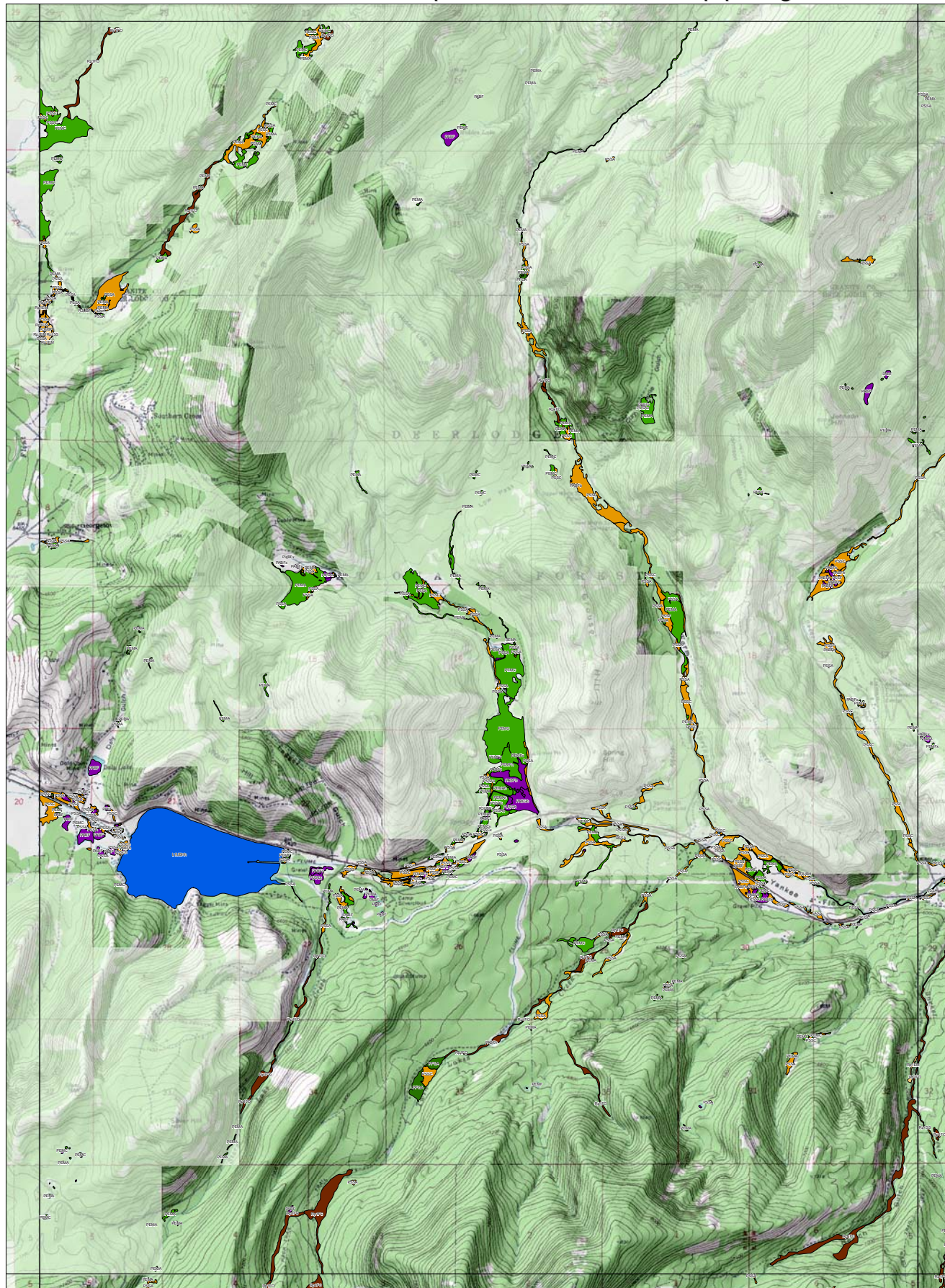
Wetland and Riparian mapping is mapped to the FGWC and USFWS National Wetland Inventory standards using the 2003 NAIP imagery at a 1:24,000 scale. Thus, the data are intended for use in publications, at a scale of 1:12,000 or smaller. Due to the scale, the primary intended use is for regional and watershed data display and analysis, rather than specific project data analysis. The map products were neither designed nor intended to represent legal or regulatory products.

Data Sources: The stewardship data was created by the Montana Natural Heritage Program. All other data layers in this map were obtained from the Montana GIS Portal which is maintained by NTHS.





# Wetland and Riparian Area Mapping



**Wetland and Riparian Mapping**

- Lacustrine
- Freshwater Pond
- Freshwater Emergent Wetland
- Freshwater Shrub Wetland
- Freshwater Forested Wetland
- Riverine
- Riparian Emergent
- Riparian Shrub
- Riparian Forested

**Ownership**

- Special Designations
- Conservation Easements
- US Bureau of Land Management
- US Bureau of Reclamation
- US Fish and Wildlife Service
- National Park Service
- US Forest Service
- USDA (Ag Research Stations)
- Army Corps of Engineers
- Other Department of Defense
- Undifferentiated State
- State Trust Lands
- Montana Fish, Wildlife & Parks
- State -- University, Institutions, MDT
- DNRC (Water Project Lands)
- Local Government
- US Bureau of Indian Affairs Trust Lands
- Tribal Lands
- Plum Creek Timber Company
- Private Land Trusts

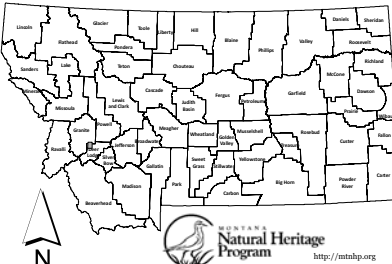
**Quad Code - 4611322**  
**Quad Name - Silver Lake**

The MTNHP wetland and riparian mapping has gone through two stages of internal review. It has been field verified and approved by the U.S. Fish and Wildlife Service's (USFWS) National Wetland Inventory (NWI). Finalized mapping is available for download from the USFWS as well as from NHRIS.

The wetland and riparian mapping is not an exhaustive or comprehensive inventory of wetland and riparian areas within the mapping boundary. Field verification of the absence or presence of wetland and riparian areas will always be an important obligation of users of our data. Additionally, the NWI definition of a wetland is more inclusive than the definition of a jurisdictional wetland, and thus the wetland boundaries shown in our dataset cannot substitute for boundaries mapped in a wetland delineation.

Wetland and Riparian mapping is mapped to the RIGEC and USFWS National Wetland Inventory standards using the 2001 NAIP imagery at a 1:2,000 scale. Thus, the data are intended for use in publications, at a scale of 1:12,000 or smaller. Due to the scale, the primary intended use is for regional and watershed data display and analysis, rather than specific project data analysis. The map products were neither designed nor intended to represent legal or regulatory products.

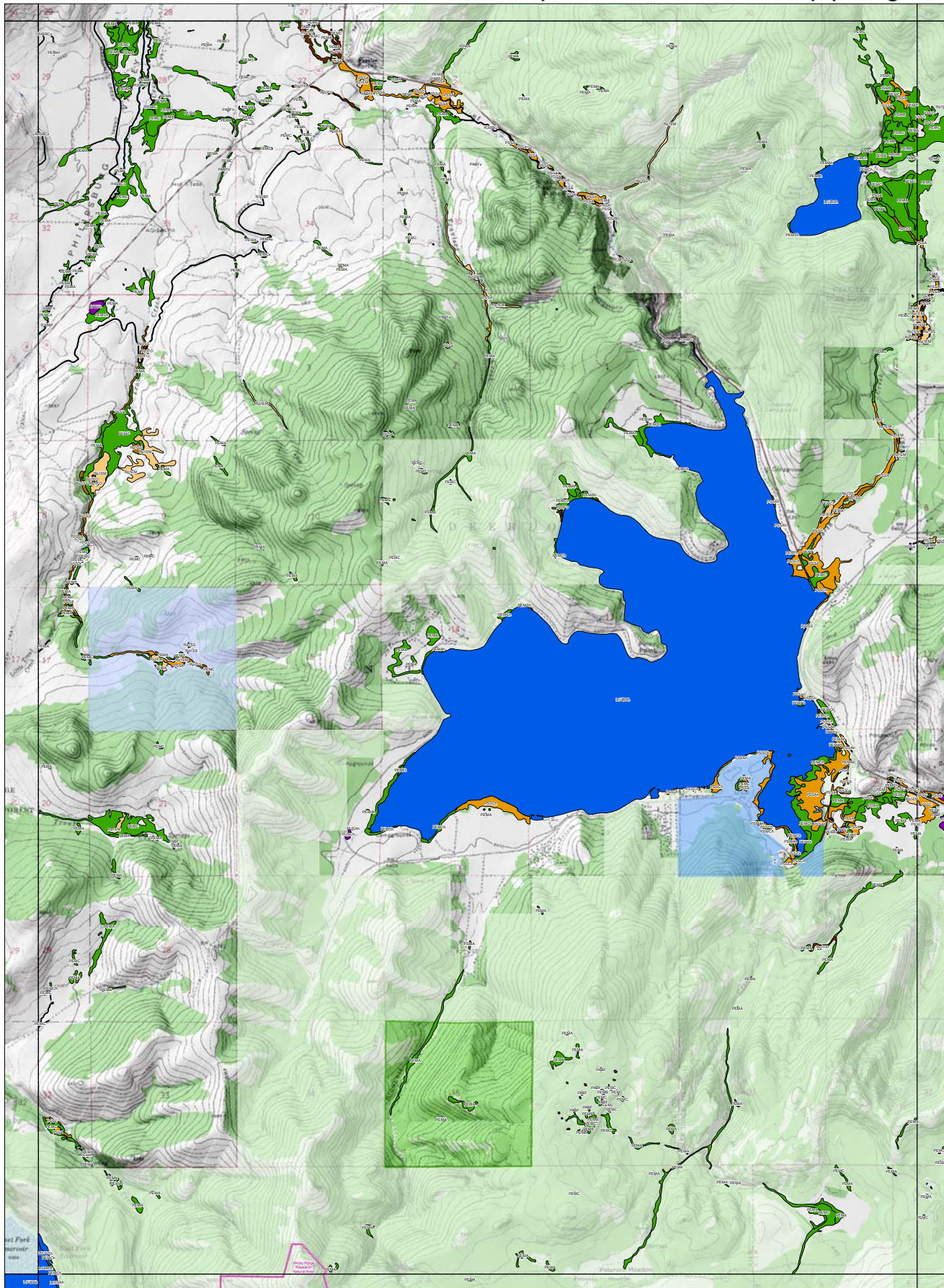
Data Sources: The stewardship data was created by the Montana Natural Heritage Program. All other data layers in this map were obtained from the Montana GIS Portal which is maintained by NHRIS.



0.5 0.25 0 0.5 Miles  
 1 0.5 0 1 Kilometers  
 1:15,250



# Provisional Wetland and Riparian Area Mapping



Wetland and Riparian Mapping	
	Lacustrine
	Freshwater Pond
	Freshwater Emergent Wetland
	Freshwater Shrub Wetland
	Freshwater Forested Wetland
	Riverine
	Riparian Emergent
	Riparian Shrub
	Riparian Forested

Ownership	
	Special Designations
	Conservation Easements
	US Bureau of Land Management
	US Bureau of Reclamation
	US Fish and Wildlife Service
	National Park Service
	US Forest Service
	USDA (Ag Research Stations)
	Army Corps of Engineers
	Other Department of Defense
	Undifferentiated State
	State Trust Lands
	Montana Fish, Wildlife & Parks
	State - University, Institutions, MDT
	DNR (Water Project Lands)
	Local Government
	US Bureau of Indian Affairs Trust Lands
	Tribal Lands
	Plum Creek Timber Company
	Private Land Trusts

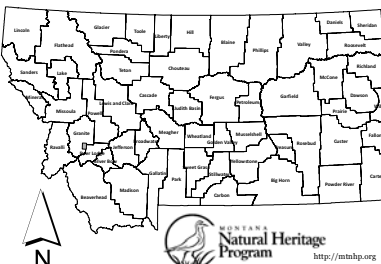
**Quad Code - 4611323**  
**Quad Name - Georgetown Lake**

MTNHP provisional wetland mapping has gone through two stages of internal review, but has not been field verified or approved by the U.S. Fish and Wildlife Service's (USFWS) National Wetland Inventory (NWI). Interested parties are encouraged to obtain the most current information possible from MTNHP, rather than using older products.

The provisional wetland mapping is not an exhaustive or comprehensive inventory of wetland and riparian areas within the mapping boundary. Field verification of the absence or presence of wetland and riparian areas will always be an important obligation of users of our data. Additionally, the NWI definition of a wetland is more inclusive than the definition of a jurisdictional wetland, and thus the wetland boundaries shown in our dataset cannot substitute for boundaries mapped in a wetland delineation.

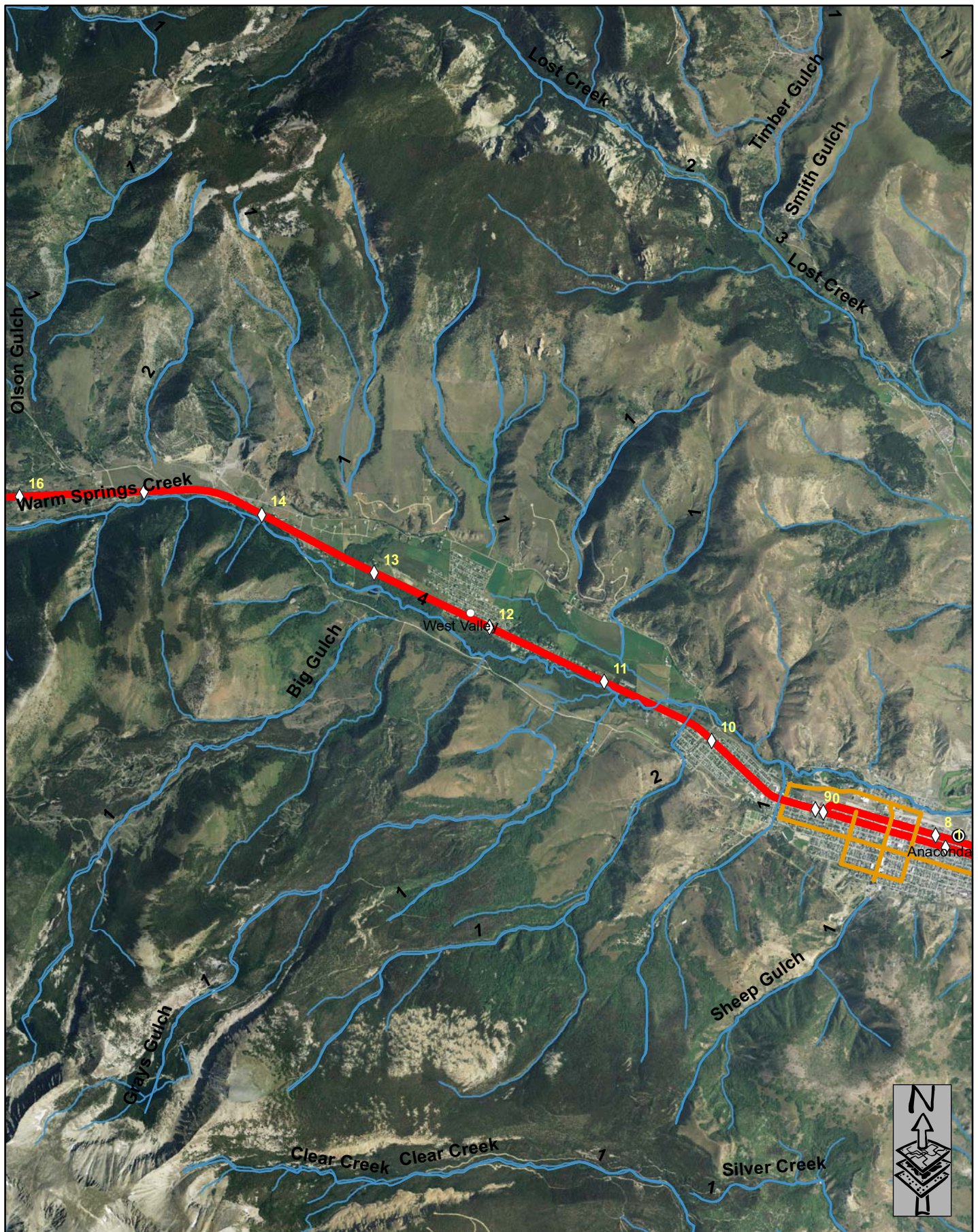
Wetland and Riparian mapping is mapped to the FGEC and USFWS National Wetland Inventory standards using the 2001 NAD imagery at a 1:24,000 scale. Thus, the data are intended for use in publications, at a scale of 1:12,000 or smaller. Due to the scale, the primary intended use is for regional and watershed data display and analysis, rather than specific project data analysis. The map products were neither designed nor intended to represent legal or regulatory products.

Data Sources: The stewardship data was created by the Montana Natural Heritage Program. All other data layers in this map were obtained from the Montana GIS Portal which is maintained by NHRP.



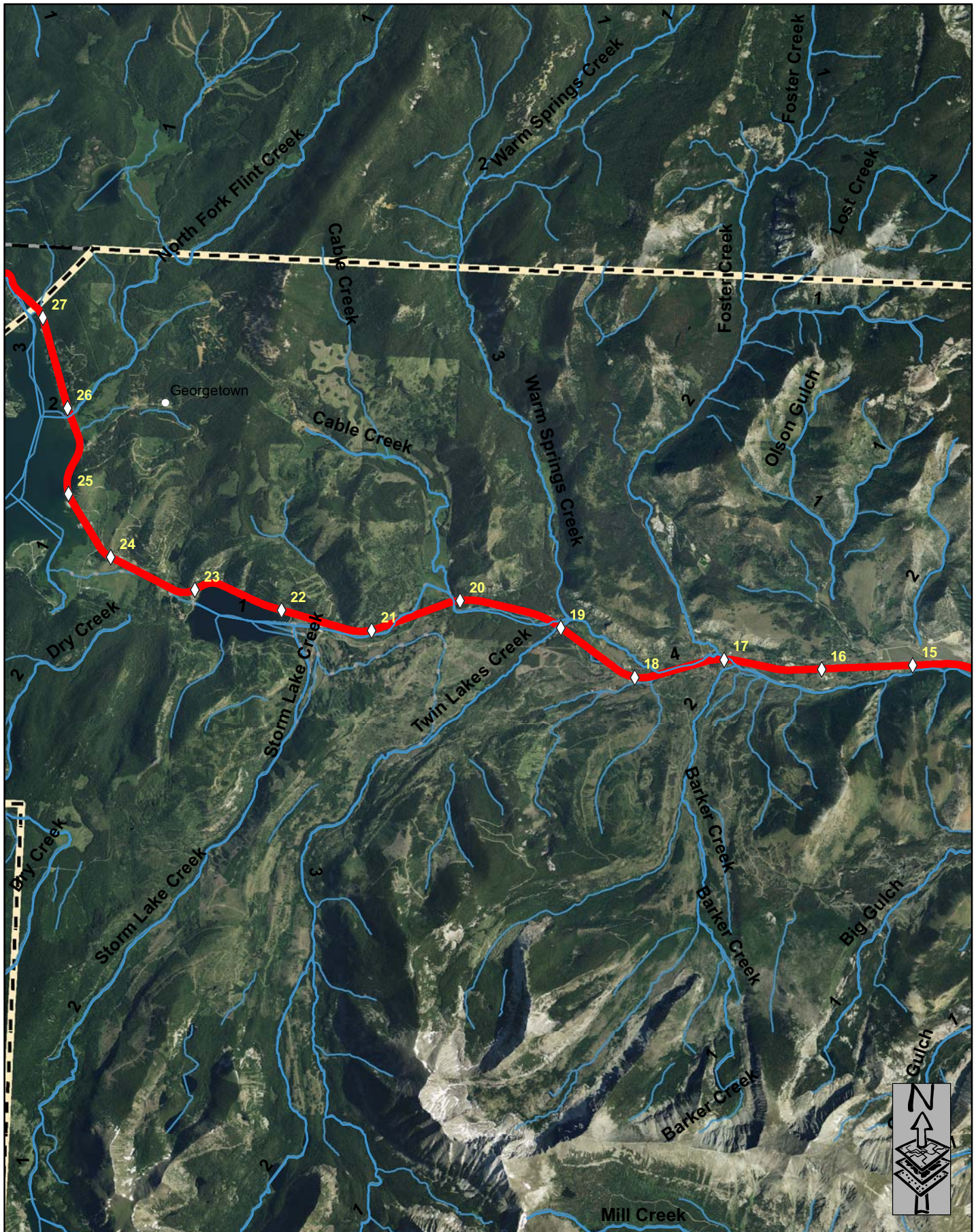


MT1- Anaconda to Georgetown Lake Corridor Study  
Phase 1 RP 10.5 to RP 14.5  
Streams and other Waterbodies





MT1- Anaconda to Georgetown Lake Corridor Study  
Phase II RP 14.5 to RP 27.5  
Streams and other Waterbodies





Warm Springs Creek

River Mile: 0 to 32.6

Miles: 32.6

Total Stream Miles: 32.6

HUC: Upper Clark Fork (17010201)

Tributary To: Clark Fork River

Regions: Region 2

Counties: Deer Lodge; Granite

## Fish Distribution

[Download Data](#)

Begin Mile	End Mile	Species	Abundance	Use Type	Life History	Origin	Genetic Status	Data Rating	Data Source
13.1	29.4	Brook Trout	Rare	Year-round resident	Not applicable	Introduced	Not Applicable	Extrapolated from multiple surveys/observations	FWP
14	28.4	Brook X Bull Trout hybrid	Rare	Year-round resident	Not applicable	Not applicable	Not Applicable	Extrapolated from multiple surveys/observations	FWP
0	18.2	Brown Trout	Abundant	Both resident and Fluvial/Adfluvial populations	Not applicable	Introduced	Not Applicable	Extrapolated from multiple surveys/observations	FWP
18.2	24.4	Brown Trout	Rare	Unknown	Not applicable	Introduced	Not Applicable	Extrapolated from a single survey/observation	FWP
12.3	24.4	Bull Trout	Rare	Unknown	Not applicable	Native	Unknown	Extrapolated from multiple surveys/observations	FWP
24.4	24.4	Bull Trout	Rare	Year-round resident	Not applicable	Native	Unknown	Extrapolated from multiple surveys/observations	FWP
24.4	32.6	Bull Trout	Unknown	Year-round resident	Not applicable	Native	Genetically pure, determined by genetic analysis	Extrapolated from multiple surveys/observations	FWP
0	22.3	Longnose Sucker	Abundant	Year-round resident	Not applicable	Native	Not Applicable	No Survey, Professional judgment	FWP
0	12.9	Mountain Whitefish	Rare	Year-round resident	Not applicable	Native	Not Applicable	No Survey, Professional judgment	FWP
0	11.6	Rainbow Trout	Rare	Year-round resident	Not applicable	Introduced	Not Applicable	Extrapolated from multiple surveys/observations	FWP
11.6	25	Rainbow Trout	Common	Year-round resident	Resident	Introduced	Not Applicable	Extrapolated from multiple surveys/observations	fwp
24.4	32.6	Sculpin	Unknown	Year-round resident	Not applicable	Native	Not Applicable	Extrapolated from a single survey/observation	FWP
0	26.1	Slimy Sculpin	Common	Year-round resident	Resident	Native	Not Applicable	Extrapolated from multiple	FWP

								surveys/observations	
0	4	Westslope Cutthroat Trout	Rare	Year-round resident	Resident	Native	Potentially hybridized with records of contaminating species	Extrapolated from multiple surveys/observations	FWP
9.4	10.7	Westslope Cutthroat Trout	Rare	Year-round resident	Resident	Native	Potentially hybridized with records of contaminating species	Extrapolated from multiple surveys/observations	FS
10.7	15.3	Westslope Cutthroat Trout	Rare	Year-round resident	Resident	Native	Potentially hybridized with records of contaminating species	Extrapolated from multiple surveys/observations	FS
15.3	24.5	Westslope Cutthroat Trout	Rare	Year-round resident	Resident	Native	Potentially hybridized with records of contaminating species	Extrapolated from multiple surveys/observations	FS
24.5	32.5	Westslope Cutthroat Trout	Common	Year-round resident	Resident	Native	Genetically pure, determined by genetic analysis	Extrapolated from multiple surveys/observations	FS
13.1	24.1	Westslope X Rainbow	Abundant	Year-round resident	Resident	Not applicable	Not Applicable	Extrapolated from multiple surveys/observations	fwp

## Population Surveys

[Download Data](#)

## Section: QUAN1

River Miles: 0 to 0.1

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/22/1991	Tohtz, Joel	Brown Trout	200	per 1000 ft.	Multi-pass, maximum likelihood	-	-	-	N/A	Backpack shocking	Medium quality	FWP
7/24/1990	Tohtz, Joel	Brown Trout	410	per 1000 ft.	Multi-pass, maximum likelihood	-	-	-	N/A	Backpack shocking	Medium quality	FWP
11/8/1989	Tohtz, Joel	Brown Trout	212	per 1000 ft.	Multi-pass, maximum likelihood	-	-	-	N/A	Backpack shocking	Medium quality	FWP

## Section: QUAN2

River Miles: 0 to 0.1

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
10/1/1991	Tohtz, Joel	Brown Trout	142	per 1000 ft.	Multi-pass, maximum	-	-	-	N/A	Backpack shocking	Medium quality	FWP



					likelihood							
7/23/1991	Tohtz, Joel	Brown Trout	236	per 1000 ft.	Multi-pass, maximum likelihood	-	-	-	N/A	Backpack shocking	Medium quality	FWP
7/25/1990	Tohtz, Joel	Brown Trout	261	per 1000 ft.	Multi-pass, maximum likelihood	-	-	-	N/A	Backpack shocking	Medium quality	FWP
11/12/1989	Tohtz, Joel	Brown Trout	329	per 1000 ft.	Multi-pass, maximum likelihood	-	-	-	N/A	Backpack shocking	Medium quality	FWP

**Section: Wildlife Management Area**  
**River Miles: 3.4 to 3.5**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
10/2/2008	Lindstrom, Jason	Brown Trout	553	no estimate, counts only	Total number captured or presence only	63	521	211.6	mm	Electrofishing	Medium quality	FWP
10/2/2008	Lindstrom, Jason	Westslope X Rainbow	1	no estimate, counts only	Total number captured or presence only	-	-	250	mm	Electrofishing	Medium quality	FWP
9/25/2008	Lindstrom, Jason	Brown Trout	535	no estimate, counts only	Total number captured or presence only	65	531	211.9	mm	Electrofishing	Medium quality	FWP
9/14/2007	Lindstrom, Jason	Brown Trout	552	no estimate, counts only	Total number captured or presence only	68	509	215.9	mm	Electrofishing	Good quality	FWP
9/14/2007	Lindstrom, Jason	Westslope Cutthroat Trout	1	no estimate, counts only	Total number captured or presence only	-	-	168	mm	Electrofishing	Good quality	FWP
9/6/2007	Lindstrom, Jason	Brown Trout	552	no estimate, counts only	Total number captured or presence only	61	542	218.7	mm	Electrofishing	Good quality	FWP
9/6/2007	Lindstrom, Jason	Westslope Cutthroat Trout	1	no estimate, counts only	Total number captured or presence only	-	-	364	mm	Electrofishing	Good quality	FWP
9/6/2007	Lindstrom, Jason	Westslope X Rainbow	1	no estimate, counts only	Total number captured or presence only	-	-	166	mm	Electrofishing	Good quality	FWP

**Section: Section 32 - Lower Meanders****River Miles: 9 to 9.1**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
9/19/2007	Lindstrom, Jason	Brown Trout	177	no estimate, counts only	Total number captured or presence only	71	437	191.3	mm	Electrofishing	Good quality	FWP
9/19/2007	Lindstrom, Jason	Rainbow Trout	1	no estimate, counts only	Total number captured or presence only	-	-	360	mm	Electrofishing	Good quality	FWP
9/19/2007	Lindstrom, Jason	Westslope X Rainbow	1	no estimate, counts only	Total number captured or presence only	-	-	312	mm	Electrofishing	Good quality	FWP

**Section: Section 32 - Top Channelized****River Miles: 9.9 to 10**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
9/19/2007	Lindstrom, Jason	Brown Trout	194	no estimate, counts only	Total number captured or presence only	63	419	125.7	mm	Electrofishing	Good quality	FWP
9/19/2007	Lindstrom, Jason	Rainbow Trout	1	no estimate, counts only	Total number captured or presence only	-	-	415	mm	Electrofishing	Good quality	FWP

**Section: Below Meyers Dam****River Miles: 18 to 18.1**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
9/21/2007	Lindstrom, Jason	Brook Trout	7	no estimate, counts only	Total number captured or presence only	150	234	190.7	mm	Electrofishing	Good quality	FWP
9/21/2007	Lindstrom, Jason	Brown Trout	371	no estimate, counts only	Total number captured or presence only	66	467	251.1	mm	Electrofishing	Good quality	FWP
9/21/2007	Lindstrom, Jason	Rainbow Trout	16	no estimate, counts only	Total number captured or presence only	132	423	300.6	mm	Electrofishing	Good quality	FWP



					only							
9/21/2007	Lindstrom, Jason	Westslope Cutthroat Trout	17	no estimate, counts only	Total number captured or presence only	77	398	227.4	mm	Electrofishing	Good quality	FWP
9/21/2007	Lindstrom, Jason	Westslope X Rainbow	11	no estimate, counts only	Total number captured or presence only	124	397	225.3	mm	Electrofishing	Good quality	FWP

Section: N/A

River Miles: 18.7 to 18.8

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
9/2/1993	Gerdes, Steve	Bull Trout	1	no estimate, counts only	Total number captured or presence only	-	-	-	N/A	Backpack shocking	Medium quality	FS
9/2/1993	Gerdes, Steve	Westslope Cutthroat Trout	5	no estimate, counts only	Total number captured or presence only	6.5	8.5	-	in	Backpack shocking	Medium quality	FS

Section: Garrity Game Check Station

River Miles: 20.1 to 20.2

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
9/20/2007	Lindstrom, Jason	Brook Trout	3	no estimate, counts only	Total number captured or presence only	144	240	180	mm	Electrofishing	Good quality	FWP
9/20/2007	Lindstrom, Jason	Brown Trout	8	no estimate, counts only	Total number captured or presence only	64	428	253.4	mm	Electrofishing	Good quality	FWP
9/20/2007	Lindstrom, Jason	Bull Trout	11	no estimate, counts only	Total number captured or presence only	69	323	186.6	mm	Electrofishing	Good quality	FWP
9/20/2007	Lindstrom, Jason	Rainbow Trout	15	no estimate, counts only	Total number captured or presence only	74	351	195.7	mm	Electrofishing	Good quality	FWP
9/20/2007	Lindstrom, Jason	Slimy Sculpin	21	no estimate, counts only	Total number captured or presence	50	110	70.7	mm	Electrofishing	Good quality	FWP

					only							
9/20/2007	Lindstrom, Jason	Westslope Cutthroat Trout	113	no estimate, counts only	Total number captured or presence only	52	370	192.2	mm	Electrofishing	Good quality	FWP
9/20/2007	Lindstrom, Jason	Westslope X Rainbow	25	no estimate, counts only	Total number captured or presence only	64	422	167.5	mm	Electrofishing	Good quality	FWP

**Section:** Below Confluence of Upper Forks**River Miles:** 22.2 to 22.3

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/5/2007	Lindstrom, Jason	Bull Trout	1	no estimate, counts only	Total number captured or presence only	-	-	240	mm	Electrofishing	Good quality	FWP
7/5/2007	Lindstrom, Jason	Westslope Cutthroat Trout	7	no estimate, counts only	Total number captured or presence only	53	210	164.4	mm	Electrofishing	Good quality	FWP

**Section:** N/A**River Miles:** 24.5 to 24.6

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/21/1993	Gerdes, Steve	Westslope Cutthroat Trout	24	no estimate, counts only	Total number captured or presence only	4.9	8.1	-	in	Backpack shocking	Medium quality	FS
7/17/1993	Gerdes, Steve	Brook Trout	1	no estimate, counts only	Total number captured or presence only	-	-	-	N/A	Backpack shocking	Medium quality	FS
7/17/1993	Gerdes, Steve	Bull Trout	3	no estimate, counts only	Total number captured or presence only	3.9	10.2	-	in	Backpack shocking	Medium quality	FS
7/17/1993	Gerdes, Steve	Westslope Cutthroat Trout	2	no estimate, counts only	Total number captured or presence only	5.5	11.3	-	in	Backpack shocking	Medium quality	FS
7/14/1993	Gerdes, Steve	Brook Trout	6	no estimate, counts only	Total number captured or presence only	2.8	8.1	-	in	Backpack shocking	Medium quality	FS



					only							
7/14/1993	Gerdes, Steve	Westslope Cutthroat Trout	5	no estimate, counts only	Total number captured or presence only	3	5.3	-	in	Backpack shocking	Medium quality	FS
7/12/1993	Gerdes, Steve	Westslope Cutthroat Trout	4	no estimate, counts only	Total number captured or presence only	3.4	6.7	-	in	Backpack shocking	Medium quality	FS

Section: N/A

River Miles: 24.7 to 24.8

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
8/19/2009	Young, Michael	Brook Trout	3	no estimate, counts only	Total number captured or presence only	185	265	213.3	mm	Electrofishing	Medium quality	FS
8/19/2009	Young, Michael	Bull Trout	3	no estimate, counts only	Total number captured or presence only	95	155	120	mm	Electrofishing	Medium quality	FS
8/19/2009	Young, Michael	Sculpin	2	no estimate, counts only	Total number captured or presence only	65	90	77.5	mm	Electrofishing	Medium quality	FS
8/19/2009	Young, Michael	Westslope Cutthroat Trout	10	no estimate, counts only	Total number captured or presence only	145	350	251.5	mm	Electrofishing	Medium quality	FS

Section: Above Veronica Trail Road

River Miles: 24.9 to 25

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/28/2008	Peterson, Doug	Brook Trout	2	no estimate, counts only	Total number captured or presence only	131	227	179	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Brook X Bull Trout hybrid	3	no estimate, counts only	Total number captured or presence only	140	223	182	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Bull Trout	1	no estimate, counts only	Total number captured or presence only	-	-	385	mm	Electrofishing	Good quality	FWP

					only							
7/28/2008	Peterson, Doug	Sculpin	11	no estimate, counts only	Total number captured or presence only	30	91	70.6	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Westslope Cutthroat Trout	4	no estimate, counts only	Total number captured or presence only	117	225	159	mm	Electrofishing	Good quality	FWP
9/4/2007	Lindstrom, Jason	Brook Trout	9	no estimate, counts only	Total number captured or presence only	66	201	146.3	mm	Electrofishing	Good quality	FWP
9/4/2007	Lindstrom, Jason	Rainbow Trout	1	no estimate, counts only	Total number captured or presence only	-	-	148	mm	Electrofishing	Good quality	FWP
9/4/2007	Lindstrom, Jason	Slimy Sculpin	11	no estimate, counts only	Total number captured or presence only	44	110	67.7	mm	Electrofishing	Good quality	FWP
9/4/2007	Lindstrom, Jason	Westslope Cutthroat Trout	16	no estimate, counts only	Total number captured or presence only	40	308	138.9	mm	Electrofishing	Good quality	FWP

**Section: Warm Springs Creek (site 2)****River Miles: 27.5 to 27.6**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/28/2008	Peterson, Doug	Brook Trout	14	no estimate, counts only	Total number captured or presence only	74	246	145.5	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Brook X Bull Trout hybrid	2	no estimate, counts only	Total number captured or presence only	187	198	192.5	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Bull Trout	5	no estimate, counts only	Total number captured or presence only	149	419	260.2	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Westslope Cutthroat Trout	10	no estimate, counts only	Total number captured or presence only	52	311	141.9	mm	Electrofishing	Good quality	FWP



**Section: Warm Springs Creek (site 5)****River Miles: 28.4 to 28.5**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/29/2008	Peterson, Doug	Brook Trout	34	no estimate, counts only	Total number captured or presence only	64	235	133	mm	Electrofishing	Good quality	FWP
7/29/2008	Peterson, Doug	Bull Trout	16	no estimate, counts only	Total number captured or presence only	96	249	214.9	mm	Electrofishing	Good quality	FWP
7/29/2008	Peterson, Doug	Westslope Cutthroat Trout	1	no estimate, counts only	Total number captured or presence only	-	-	80	mm	Electrofishing	Good quality	FWP

**Section: N/A****River Miles: 28.5 to 28.6**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
8/19/2009	Young, Michael	Brook Trout	7	no estimate, counts only	Total number captured or presence only	125	255	177.9	mm	Electrofishing	Medium quality	FS
8/19/2009	Young, Michael	Bull Trout	2	no estimate, counts only	Total number captured or presence only	50	580	315	mm	Electrofishing	Medium quality	FS
8/19/2009	Young, Michael	Westslope Cutthroat Trout	5	no estimate, counts only	Total number captured or presence only	100	300	176	mm	Electrofishing	Medium quality	FS

**Section: Warm Springs Creek (site 3)****River Miles: 28.7 to 28.8**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/28/2008	Peterson, Doug	Brook Trout	10	no estimate, counts only	Total number captured or presence only	94	239	139.9	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Brook X Bull Trout hybrid	2	no estimate, counts only	Total number captured or presence	352	356	354	mm	Electrofishing	Good quality	FWP

					only							
7/28/2008	Peterson, Doug	Bull Trout	7	no estimate, counts only	Total number captured or presence only	221	259	239.7	mm	Electrofishing	Good quality	FWP
7/28/2008	Peterson, Doug	Westslope Cutthroat Trout	2	no estimate, counts only	Total number captured or presence only	132	141	136.5	mm	Electrofishing	Good quality	FWP

**Section: Warm Springs Creek (site 4)****River Miles: 28.9 to 29**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
7/29/2008	Peterson, Doug	Brook Trout	16	no estimate, counts only	Total number captured or presence only	75	248	167.8	mm	Electrofishing	Good quality	FWP
7/29/2008	Peterson, Doug	Bull Trout	3	no estimate, counts only	Total number captured or presence only	229	236	233.7	mm	Electrofishing	Good quality	FWP
7/29/2008	Peterson, Doug	Westslope Cutthroat Trout	5	no estimate, counts only	Total number captured or presence only	105	293	176.4	mm	Electrofishing	Good quality	FWP

**Section: Below Bridge Crossing - Upper****River Miles: 29 to 29.1**

Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
9/4/2007	Lindstrom, Jason	Brook Trout	9	no estimate, counts only	Total number captured or presence only	93	303	195.6	mm	Electrofishing	Good quality	FWP
9/4/2007	Lindstrom, Jason	Brook X Bull Trout hybrid	1	no estimate, counts only	Total number captured or presence only	-	-	358	mm	Electrofishing	Good quality	FWP
9/4/2007	Lindstrom, Jason	Bull Trout	12	no estimate, counts only	Total number captured or presence only	208	232	218.9	mm	Electrofishing	Good quality	FWP
9/4/2007	Lindstrom, Jason	Westslope Cutthroat Trout	8	no estimate, counts only	Total number captured or presence only	104	265	156.8	mm	Electrofishing	Good quality	FWP



					only							
Section: N/A												
River Miles: 32.5 to 32.6												
Date	Collector	Species	Est.	Sec. Unit	Method	Length				Gear	Data	
						Min	Max	Avg.	Unit		Rating	Source
8/19/2009	Young, Michael	Westslope Cutthroat Trout	36	no estimate, counts only	Total number captured or presence only	100	185	130.9	mm	Electrofishing	Medium quality	FS

**Genetic Samples**[Download Data](#)

<b>Date:</b> 7/14/1993			
<b>Sample #:</b> 762			
<b>Collector:</b> Sanborn, Brian		<b>Target Species:</b> Bull Trout	
<b>River Miles:</b> 26.2 to 26.3		<b># of Fish:</b> 3	
<b>Analysis Type:</b> Allozymes		<b>Comments:</b>	
<b>Analyzer:</b> Leary, Robb			
Species Name	Percent	Count	Hybrid
Bull Trout	100	-	-
<b>Date:</b> 7/16/1986			
<b>Sample #:</b> 169			
<b>Collector:</b> Hadley, Wayne		<b>Target Species:</b> Westslope Cutthroat Trout	
<b>River Miles:</b> 30.7 to 30.8		<b># of Fish:</b> 21	
<b>Analysis Type:</b> Allozymes		<b>Comments:</b>	
<b>Analyzer:</b> Leary, Robb			
Species Name	Percent	Count	Hybrid
Westslope Cutthroat Trout	100	-	-

**Fish Stocking**

No Data Found

**Habitat Measurements**[Download Data](#)

<b>Section:</b> Wildlife Management Area					
<b>River Miles:</b> 3.4 to 3.5					
Date	Time	Collector	Parameter	Value	Unit
9/25/2008		Lindstrom, Jason	Conductivity	326	µS/cm
9/25/2008		Lindstrom, Jason	Water Temp	7.6	Deg C
9/25/2008		Lindstrom, Jason	Water Temp	10.2	Deg C

**Bull Trout Core Areas**

Begin Mile	End Mile
2.673	32.6

**Bull Trout Node Areas**

Selection is not within a Bull Trout Node Area

**Angling Days Per Year**[Download Data](#)

<b>River Miles:</b> 0 to 32.6								
Year	Total		Resident		Non Resident		Ranking	
	Days Fished(+S.D.)	Trips	Days Fished(+S.D.)	Trips	Days Fished(+S.D.)	Trips	State	Region

2007	3,739 (+- 1,381)	56	2,599 (+- 1,009)	37	1,140 (+- 943)	19	118	19
2005	1,912 (+- 545)	34	1,767 (+- 533)	32	145 (+- 116)	2	190	32
2003	6,183 (+- 1,747)	132	5,439 (+- 1,718)	116	744 (+- 316)	16	96	15
2001	7,206 (+- 2,649)	141	6,863 (+- 2,643)	130	343 (+- 164)	11	79	13
1999	5,842 (+- 1,479)	130	4,287 (+- 1,145)	101	1,555 (+- 936)	29	108	17

**Fisheries Resource Value**[Download Data](#)

Begin Mile	End Mile	Sport Class	Habitat Class	Final Rating
0	22.3	3	1	Outstanding (1)
22.3	24.4	4	1	Outstanding (1)
24.4	32.6	3	1	Outstanding (1)

**Dewatered Concern Areas**

No Data Found

**FWP Instream Flow Protection/Quantification**

No Data Found

**FWP Water Leases**

No Data Found

**Protected Areas**[Download Data](#)

<b>River Miles: 24.4 to 32.6</b>		
Protection Type	Reason (fish)	Reason (wildlife)
NWPPC Wildlife Protected Area	no data	Big game critical wintering/spring area

**Special Fishing Regulations**

No Data Found

**Stream Restoration Projects**

No Data Found

**FWP Management**

Begin Mile	End Mile	Region	District	Water Type
0	32.6	2	Western	Trout Water

**Fishing Logs**[Download Data](#)

Quarters based on calendar year (example: qtr 1 is Jan - Mar)					
Year	Quarter	Log Number	Species	# Caught	Hours
2009	2	7177	Brown Trout	1	4
2009	2	7177	Rainbow Trout	3	4

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Tohtz, Joel	Io, Survey And Inventory Of Coldwater Streams: Upper Clark Fork EPP, July 1, 1993 Through June 30, 1994, Statewide Fisheries Investigations	1994	Montana Department of Fish, Wildlife, and Parks	<a href="#">17424</a>
Tohtz, Joel	Io, Survey And Inventory Of Coldwater Streams: Upper Clark EPP, July 1, 1992 Through June 30, 1993, Statewide Fisheries Investigations	1993	Montana Department of Fish, Wildlife, and Parks	<a href="#">17501</a>
Tohtz, Joel	Io, Survey And Inventory Of Coldwater Streams: Upper Clark EPP, October 21, 1991 Through June 30, 1992; August 1992, Statewide Fisheries Investigations	1992	Montana Department of Fish, Wildlife, and Parks	<a href="#">17307</a>
Usfs Et Al	Wsct Assessment, 1/1/2003	2003	U.S. Forest Service	
Vashro, James E.	Ia, Inventories And Surveys Of The Upper Clark Fork And Blackfoot Rivers, July 1, 1977 To June 30, 1982; June 15, 1983,western Montana Fishery Investigation	1983	Montana Department of Fish, Wildlife, and Parks	
Vashro, James E.	Ia, Inventory And Surveys Of The Upper Clark Fork River, Blackfoot River And Rock Creek Drainages, July 1, 1982 To June 30, 1983; November 1, 1983,inventory Of Waters Of The Project Area	1983	Montana Department of Fish, Wildlife, and Parks	
Vashro, James, And Donald Peters	Ia, Inventories And Surveys Of The Upper Clark Fork River And Blackfoot Drainages, July 1, 1976 To June 30, 1977; September 1977,western Montana Fishery Investigation	1977	Montana Fish and Game Department	
Vincent, E. Richard	Whirling Disease Report, 1997-98; January 12, 2000,project 3860	2000	Montana Department of Fish, Wildlife, and Parks	<a href="#">29152</a>
Young, Michael	Report of fish taken under Scientific Collector Permit SCP-19-09 and SCP-19A-09	2009	U.S. Forest Service	<a href="#">43033</a>



# Clean Water Act Information Center

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## 2010 Water Quality Information

### Water Information

<b>Waterbody Id</b>	MT76G002_011	<b>Water Type</b>	RIVER
<b>Name</b>	Warm Springs Creek	<b>Hydro Unit</b>	17010201 - Upper Clark Fork
<b>Size (Miles/Acres)</b>	14.7	<b>Basin</b>	Columbia
<b>Ecoregion</b>	Middle Rockies	<b>Watershed</b>	Upper Clark Fork
<b>County</b>	DEER LODGE, GRANITE	<b>Use Class</b>	A-1
<b>TMDL Planning Area</b>	Upper Clark Fork	<b>Trophic Status and Trend</b>	NA
<b>Location</b>	WARM SPRINGS CREEK, headwaters to Meyers Dam, T5N R12W S25		
<b>Water Quality Category</b>	4C - TMDLs are not required; no pollutant-related use impairment identified.		

### Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information	Not Assessed
Agricultural	✓					
Aquatic Life		✓				
Cold Water Fishery		✓				
Drinking Water					✓	
Industrial	✓					
Primary Contact Recreation	✓					

### Impairment Information

Probable Causes	Probable Sources	Associated Uses	TMDL Completed
Physical substrate habitat alterations	Channelization Highway/Road/Bridge Runoff (Non-construction Related)	Aquatic Life Cold Water Fishery	NO

### Assessment Information

Assessment Type	Associated Uses	Confidence
BIOLOGICAL	Aquatic Life Cold Water Fishery	GOOD
HABITAT	Aquatic Life	GOOD
PHYSICAL/CHEMICAL	Agricultural Aquatic Life Cold Water Fishery Industrial Primary Contact Recreation	GOOD
Assessment Method	Associated Uses	
NA	NA	

### Comments

<b>Overall Assessment</b>	
WATERBODY: Clark Fork tributaries upstream of Little Blackfoot River	
<b>Use</b>	<b>Comment</b>

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

ASSESSMENT UNIT INFORMATION

Reporting Cycle: 2010

Assessment Unit: MT76G002\_011

Name: Warm Springs Creek

Location Description: WARM SPRINGS CREEK, headwaters to Meyers Dam, T5N R12W S25

Water Type: RIVER      Size (Miles/Acres) 14.74 MILES

Use Class: A-1

Hydrologic Unit Code: 17010201

Basin: Columbia

Watershed: Upper Clark Fork

County: DEER LODGE CO, GRANITE CO

Ecoregion: Middle Rockies

TMDL Planning Area: Upper Clark Fork

HUC Name: Upper Clark Fork

MONITORING INFORMATION

Date Assessed: 06/05/2006

Assessed By: Strohmayer, Sheena

Next Scheduled Monitoring Date:



# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

## CITATIONS

Citation	Location	Biological Data	Habitat Data	Chemistry Data
Spindler, John C. ; Brinck, Claiborne W. (1959), An Extensive Chemical, Physical, Bacteriological, & Biological Survey: Columbia River Drainage in Montana, Report No. 59-1	DEQ Metcalf Stacks	algae; fecal coliforms; macroinvertebrates; other bacteriological data		General; common ions, pH, conductivity, miscellaneous; metals; quantitative physical data; toxicity tests
Environmental Protection Agency (1972), A Water Quality Study of the Upper Clark Fork River and Selected Tributaries	DEQ Metcalf Stacks	fish; macroinvertebrates		metals; quantitative physical data; toxicity tests
Botz, Maxwell K. ; Casne, Edward W. (1975), Water Quality Inventory and Management Plan: Upper Clark Fork Basin, Montana	DEQ Metcalf Stacks		Land use; riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Bahls, Loren L. ; Ingman, Gary L. (1979), An Assessment of Mining Impacts on Quality of Surface Waters in the Flint Creek Range, Montana	DEQ Metcalf Stacks	algae; macroinvertebrates	riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Knudson, Ken (1984), Preliminary Assessment of Impacts to the Trout Fishery- Upper Clark Fork River, Montana	DEQ Metcalf Stacks	fish		common ions, pH, conductivity, miscellaneous; metals; toxicity tests
Unknown (1985), Montana Interagency Stream Fishery Data for the Upper Clark Fork HUC	DEQ PPA Data Archive	algae; fish; other bacteriological data	riparian &/or instream surveys & physical features	quantitative physical data
Montana Department of Fish, Wildlife, and Parks (1986), Application for Reservations of Water in the Upper Clark Fork River Basin	DEQ Metcalf Stacks	fish; wildlife	riparian &/or instream surveys & physical features	quantitative physical data

# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

Citation	Location	Biological Data	Habitat Data	Chemistry Data
Phillips, Glenn R. ; Hill, Kurt ; Humphrey, Ann B. (1987), Statewide Water Pollution Studies Triennial Report, 1984-1986, Pollution Control Information Series, Technical Report No. 6	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; metals; quantitative physical data; toxicity tests
Bahls, Loren L. (1988), Montana Nonpoint Source Assessment Report	DEQ Metcalf Stacks	algae; other bacteriological data	Land use; riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; major nutrients; quantitative physical data
Montana Department of Fish, Wildlife, and Parks (1991), Dewatered Streams List, 1991	DEQ Metcalf Stacks		riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; quantitative physical data
Montana Department of Natural Resources and Conservation (1991), Upper Clark Fork Basin Water Reservation Applications: Final Environmental Impact Statement	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	major nutrients; metals; quantitative physical data
Ingman, Gary L. (1992), Assessment of Phosphorus and Nitrogen Sources in the Clark Fork River Basin	DEQ Metcalf Stacks			major nutrients; quantitative physical data
Thomas, Ginger (1992), Status Report : Bull Trout in Montana	DEQ Metcalf Stacks	fish	riparian &/or instream surveys & physical features	quantitative physical data
Weber, Erich E. (1993), An Assessment of Biological Integrity and Impairment of Aquatic Life in the Clark Fork River and its Major Tributaries Based on the Structure and Composition of Algae Associations in the Periphyton Community August 1991 & 1992	DEQ Metcalf Stacks	algae		



# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

Citation	Location	Biological Data	Habitat Data	Chemistry Data
Lambing, John H. ; Hornberger, Michelle I. ; Axtmann, Ellen V. ; Pope, Daniel F. (1994), Water-Quality, Bed-Sediment, and Biological Data (October 1992 through September 1993) and Statistical Summaries of Water-Quality Data (March 1985 through September 1993) for Streams in the Upper Clark Fork Basin, Montana, Open-File Report 94-375	DEQ Metcalf Stacks			benthic sediment data; common ions, pH, conductivity, miscellaneous; metals; quantitative physical data
Environmental Science and Engineering, Inc. (1995), Anaconda Regional Water and Waste Operable Unit Final Draft Remedial Investigation Report: Section 3	DEQ Metcalf Stacks		riparian &/or instream surveys & physical features	benthic sediment data; common ions, pH, conductivity, miscellaneous; metals; quantitative physical data
Hornberger, Michelle I. ; Lambing, John H. ; Luoma, Samuel N. ; Axtmann, Ellen V. (1997), Spatial and Temporal Trends of Trace Metals in Surface Water, Bed Sediment, and Biota of the Upper Clark Fork Basin, Montana, 1985-95, Open-File Report 97-669	DEQ Metcalf Stacks			benthic sediment data; bioaccumulation; common ions, pH, conductivity, miscellaneous; metals; quantitative physical data; toxicity tests
(1997), Pre 1997 Field Assessments	Assessment Record	algae; chlorophyll; fecal coliforms; fish; macroinvertebrates	Land use; photo points; riparian &/or instream surveys & physical features	Rosgen type; benthic sediment data; bioaccumulation; common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Dodge, Kent A. ; Hornberger, Michelle I. ; Axtmann,	DEQ Metcalf Stacks			benthic sediment data;

# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

Citation	Location	Biological Data	Habitat Data	Chemistry Data
Ellen V. (1998), Water-Quality, Bed-Sediment, and Biological Data (October 1996 through September 1997) and Statistical Summaries of Data for Streams in the Upper Clark Fork Basin, Montana, Open-File Report 98-407				common ions, pH, conductivity, miscellaneous; metals; quantitative physical data; toxicity tests
Lambing, John H. (1998), Estimated 1996-97 and Long-Term Average Annual Loads for Suspended Sediment and Selected Trace Metals in Streamflow of the Upper Clark Fork Basin from Warm Springs to Missoula, Montana, Water-Resources Investigations Report 98-4137	DEQ Metcalf Stacks			benthic sediment data; common ions, pH, conductivity, miscellaneous; metals; quantitative physical data
Shields, Ronald R. ; White, Melvin K. ; Ladd, Patricia B. ; Chambers, Clarence L. ; Dodge, Kent A. (1998), Water Resources Data: Montana Water Year 1997, USGS Water-Data Report MT-97-1	DEQ Metcalf Stacks	fish		benthic sediment data; common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data
Montana Department of Fish, Wildlife, and Parks (1999), Montana Rivers Information System (MRIS)	Assessment Record	algae; fish; macroinvertebrates; wildlife	Land use; riparian &/or instream surveys & physical features	common ions, pH, conductivity, miscellaneous; quantitative physical data
Reiland, Eric William ; Suplee, Michael W. (1999), Completed and Projected Fisheries Improvement Projects in the Upper Clark Fork Basin: Personal Communication with Mike Suplee on 7/06/1999	Assessment Record		riparian &/or instream surveys & physical features	Rosgen type
Reiland, Eric William (1999), Completed and Current Fish Habitat Restoration Projects	Assessment Record	fish	riparian &/or instream surveys & physical features	

# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

Citation	Location	Biological Data	Habitat Data	Chemistry Data
U.S. Geological Survey (199n), USGS Water Data for the Nation - NWIS	Assessment Record	algae; chlorophyll; fecal coliforms; fish; other bacteriological data	Land use; riparian &/or instream surveys & physical features	benthic sediment data; bioaccumulation; common ions, pH, conductivity, miscellaneous; major nutrients; metals; organics; quantitative physical data
Environmental Protection Agency (2000), Montana View (MTView)	Assessment Record	chlorophyll; fecal coliforms; fish		bioaccumulation; common ions, pH, conductivity, miscellaneous; major nutrients; metals; organics; quantitative physical data
U.S. Geological Survey (2001), Quarterly Report of Activities for Long-Term Clark Fork Monitoring Program: April 1998 through September 2001	DEQ PPA Data Archive		riparian &/or instream surveys & physical features	benthic sediment data; common ions, pH, conductivity, miscellaneous; metals; quantitative physical data
Berscheid, Jolene (2006), STORET/Storease Data Archive [Electronic Resource]	DEQ Metcalf Multimedia Case	General; algae; chlorophyll; fecal coliforms; fish; macroinvertebrates; other bacteriological data	General; Land use; riparian &/or instream surveys & physical features	General; Rosgen type; benthic sediment data; common ions, pH, conductivity, miscellaneous; imagery data; major nutrients; metals; organics; quantitative physical data
(nnnn), USFS Field Data	Assessment Record	chlorophyll; fish;	Land use; photo	Rosgen type; benthic

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

Citation	Location	Biological Data	Habitat Data	Chemistry Data
		macroinvertebrates	points; riparian &/or instream surveys & physical features	sediment data; common ions, pH, conductivity, miscellaneous; major nutrients; metals; quantitative physical data

Comments:    Only format in c-s linkage

# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

## DATA MATRIX Biological Data

### Comments:

Near Clay Charlie Gulch (Lower Warm Springs campground)

Data Type	Comments	Catalog Number	Citation
algae	(DR8 Citation: Roberts, M. 1991. Montana Dept. of Environmental Quality Field Assessment.) General observations of stream algae: No algal or macrophyte growth observed	Common.General.DR 8	(1997), Pre 1997 Field Assessments
fish	Fish Population sampling 1983: A few bull trout and numerous westslope cutthroat trout. Juveniles of all species present. Cutthroat over 6" = 502 fish/mile	Columbia.General.wr 062	Montana Department of Fish, Wildlife, and Parks (1986), Application for Reservations of Water in the Upper Clark Fork River Basin
fish	Bull trout in Warm Springs Creek: Resident population of bull trout present	Columbia.General.fh7 88	Thomas, Ginger (1992), Status Report : Bull Trout in Montana
Between Foster Creek and Meyers dam			

Data Type	Comments	Catalog Number	Citation
algae	(DR8 Citation: Roberts, M. 1991. Montana Dept. of Environmental Quality Field Assessment.) General observations of stream algae: Aquatic plant life common but normal for the stream	Common.General.DR 8	(1997), Pre 1997 Field Assessments
fish	(DR8 Citation: Montana Dept. of Fish, Wildlife and Parks. 1992. Montana Rivers Information System (MRIS) Database.) Fish Population Sampling 1989-93: Brown trout population ranges from 142-410 fish/1000ft. (750-2165 fish/mile)	Common.General.DR 8	Montana Department of Fish, Wildlife, and Parks (1999), Montana Rivers Information System (MRIS)
Headwaters			

Data Type	Comments	Catalog Number	Citation
algae	(DR8 Citation: Roberts, M. 1991. Montana Dept. of Environmental Quality Field Assessment.) General	Common.General.DR 8	(1997), Pre 1997 Field Assessments



Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

Data Type	Comments	Catalog Number	Citation
	observations of stream algae: No algal or macrophyte growth observed		
Near Barker and Foster Creek			
Data Type	Comments	Catalog Number	Citation
fish	(DR8 Citation: Montana Dept. of Fish, Wildlife and Parks. 1992. Montana Rivers Information System (MRIS) Database.) Fish Population Sampling 1989-93: Westslope cutthroat; 95t/1000ft (502 fish/mile)	Common.General.DR 8	Montana Department of Fish, Wildlife, and Parks (1999), Montana Rivers Information System (MRIS)

# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

## DATA MATRIX

### Habitat Data

#### Comments:

Near Clay Charlie Gulch (Lower Warm Springs campground)

Data Type	Comments	Catalog Number	Citation
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riparian &/or instream surveys & physical features (DR8 Citation: Roberts, M. 1991. Montana Dept. of Environmental Quality Field Assessment.) Instream and riparian assessment 1991: Overall, impacts from use minimal.

Between Foster Creek and Meyers dam

Data Type	Comments	Catalog Number	Citation
-----------	----------	----------------	----------

riparian &/or instream surveys & physical features (DR8 Citation: Roberts, M. 1991. Montana Dept. of Environmental Quality Field Assessment.) Instream and riparian assessment 1991: Bank instability along frontage road, riparian area disturbed and removed in the proximity of Highway 10A, channelization has led to a lack of pools.

### Headwaters

Data Type	Comments	Catalog Number	Citation
-----------	----------	----------------	----------

riparian &/or instream surveys & physical features (DR8 Citation: Roberts, M. 1991. Montana Dept. of Environmental Quality Field Assessment.) Instream and riparian assessment 1991: SMZ's appeared in good condition; lodgepole pine regeneration good.

Near Barker and Foster Creek

Data Type	Comments	Catalog Number	Citation
-----------	----------	----------------	----------

photo points (DR8 Citation: Roberts, M. 1991. Montana Dept. of Environmental Quality Field Assessment.) Photos of Warm Springs Creek 1991: Stream flow adjacent to

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

Data Type	Comments	Catalog Number	Citation
	road with road fill eroding into stream		

# Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

## DATA MATRIX Chemistry Data

Comments:

Near Clay Charlie Gulch (Lower Warm Springs campground)			
Data Type	Comments	Catalog Number	Citation
common ions, pH, conductivity, miscellaneous	Common ions, pH, TSS: Nothing of note. Single highest suspended sediment was 20.5 mg/L (OK)	Common.General.DR 8	(nnnn), USFS Field Data
metals	Metals 1975-82 Forest Service: No metals exceed standards	Common.General.DR 8	(nnnn), USFS Field Data
quantitative physical data	Requested flows: FW&P's requested 31-50 CFS to maintain fishery and water quality of CFR	Columbia.General.wr 062	Montana Department of Fish, Wildlife, and Parks (1986), Application for Reservations of Water in the Upper Clark Fork River Basin
Between Foster Creek and Meyers dam			
Data Type	Comments	Catalog Number	Citation
metals	Metals 1975-82 Forest Service: No metals exceed standards	Common.General.DR 8	(nnnn), USFS Field Data
quantitative physical data	Requested flows: FW&P's requested 31-50 CFS to maintain fishery and water quality of CFR	Columbia.General.wr 062	Montana Department of Fish, Wildlife, and Parks (1986), Application for Reservations of Water in the Upper Clark Fork River Basin
Near Barker and Foster Creek			
Data Type	Comments	Catalog Number	Citation
quantitative physical data	Requested flows: FW&P's requested 31-50 CFS to maintain fishery and water quality of CFR	Columbia.General.wr 062	Montana Department of Fish, Wildlife, and Parks (1986), Application for Reservations of Water in the Upper Clark Fork River Basin

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

DATA EVALUATION

Data Evaluation - Drinking Water

SCD:      No

Comments      Few metals data found, all were below criteria of detection. Given mining history of this valley, INSUFFICIENT DATA.

Score/Information	Category	Description
.	Print Comment	Comments only provided; no other data evaluation categories selected.



Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

DATA EVALUATION

Data Evaluation - Recreation

SCD:      Yes

Comments      Observations of dewatering, excess algal growth would have been made in field survey. SUFFICIENT DATA.

Score/Information	Category	Description
.	Print Comment	Comments only provided; no other data evaluation categories selected.

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

DATA EVALUATION

Data Evaluation - Aquatic Life & Fisheries (Streams) Biology Criteria

SCD:      Yes      Biological Score:      2

Comments      Fisheries data, score of 2.

Score/Information	Category	Description
.	Print Comment	Comments only provided; no other data evaluation categories selected.

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

DATA EVALUATION

Data Evaluation - Aquatic Life & Fisheries (Streams) Chemistry Criteria

SCD:      Yes      Chemistry Score:      2

Comments      Common ions and other data. Score of 2.

Score/Information	Category	Description
.	Print Comment	Comments only provided; no other data evaluation categories selected.

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

DATA EVALUATION

Data Evaluation - Aquatic Life & Fisheries (Streams) Habitat Criteria

SCD:      Yes      Habitat Score:      3

Comments      DEQ field assessment from 1991, score of 3.

Score/Information	Category	Description
.	Print Comment	Comments only provided; no other data evaluation categories selected.

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

SUMMARY

Listing History 2006

Listing History 2008

Listing History 2010



## Montana DEQ - Water Quality Standards Attainment Record

**Reporting Cycle:** 2010      **Assessment Record:** MT76G002\_011      **Status:** Completed

### Overall Condition of Segment

Site/Reach Name: Headwaters. Site/Reach Condition: No impairment. Site/Reach Name: Near Clay Charlie Gulch (Lower Warm Springs campground).  
Site/Reach Condition: No impairment. Site/Reach Name: Near Barker and Foster Creek. Site/Reach Condition: Moderate impairment. Comments: Road fill from adjacent frontage road is eroding into stream. Site/Reach Name: Between Foster Creek and Meyers dam. Site/Reach Condition: Moderate impairment. Comments: Bank instability along frontage road, riparian area disturbed and removed in the proximity of Highway 10A. Channelization. Aquatic Life & Cold Water Fishery: Problems with this reach are mainly habitat related (bank erosion, channelization, etc) and are focused near the lower end of the reach. Primary Contact (recreation): No indications of significant dewatering or algal blooms in this segment.

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

USE SUPPORT DECISION

Use Class	A-1	Biology Score	2	Habitat Score	3	Chemistry Score	2	Total Score	7
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Trophic Status:

Trophic Trend:

Uses	SCD	Method, Data, and Information Used	Assessment Type and Confidence	Test Used	Use Support	Partial Use Support Flag	Use Support Threatened Certainty
Aquatic Life	Yes		BIOLOGICAL-GOOD, HABITAT-GOOD, PHYSICAL/CHEMICAL-GOOD		Not Supporting	Yes	No
Cold Water Fishery	Yes		BIOLOGICAL-GOOD, PHYSICAL/CHEMICAL-GOOD		Not Supporting	Yes	No
Agricultural	Yes		PHYSICAL/CHEMICAL-GOOD	NA	Fully Supporting	No	No
Industrial	Yes		PHYSICAL/CHEMICAL-GOOD	NA	Fully Supporting	No	No
Drinking Water	No			NA	Insufficient Information	No	No
Primary Contact Recreation	Yes		PHYSICAL/CHEMICAL-GOOD	NA	Fully Supporting	No	No
ADB- Method Number and Description							

Montana DEQ - Water Quality Standards Attainment Record

Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

IMPAIRMENT INFORMATION

IMPAIRMENT INFORMATION		
Uses	Cause (Confidence): Source(Confirmed)	Observed Effects
Aquatic Life	344 (): 20 (N), 49 (N)	
Cold Water Fishery	344 (): 20 (N), 49 (N)	
Agricultural		
Industrial		
Drinking Water		
Primary Contact Recreation		
ADB- Cause Number and Description		
ADB- Cause Number and Description	ADB- Source Number and Description	ADB- Observed Effect Number and Description
344-Physical substrate habitat alterations	20-Channelization 49-Highway/Road/Bridge Runoff (Non-construction Related)	

DELISTINGS

Cause	Delisting Reason	Delisting Date	Comments
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Montana DEQ - Water Quality Standards Attainment Record

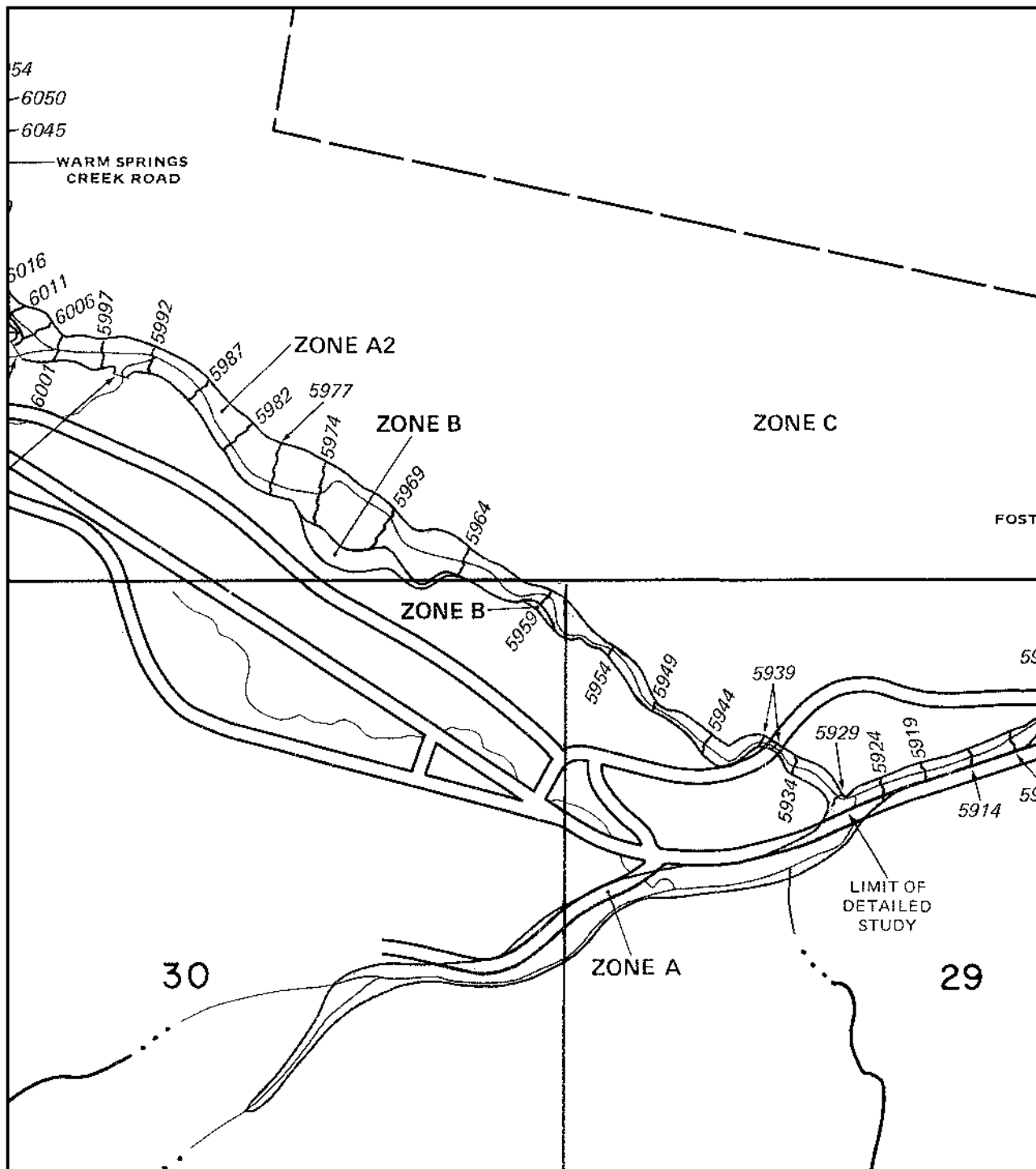
Reporting Cycle: 2010      Assessment Record: MT76G002\_011      Status: Completed

CATEGORY INFORMATION

Previous Cycle	
Cycle	2008
Category	4C - Identified threats or impairments result from pollution categories such as dewatering or habitat modification and, thus, the calculation of a Total Maximum Daily Load (TMDL) is not required
User Defined Category	N/A
Current Cycle	
Cycle	2010
Category	4C - Identified threats or impairments result from pollution categories such as dewatering or habitat modification and, thus, the calculation of a Total Maximum Daily Load (TMDL) is not required
User Defined Category	N/A

## Appendix F: Groundwater data





APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

ANACONDA DEER  
LODGE COUNTY,  
MONTANA  
(UNINCORPORATED AREAS)

PANEL 20 OF 275  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

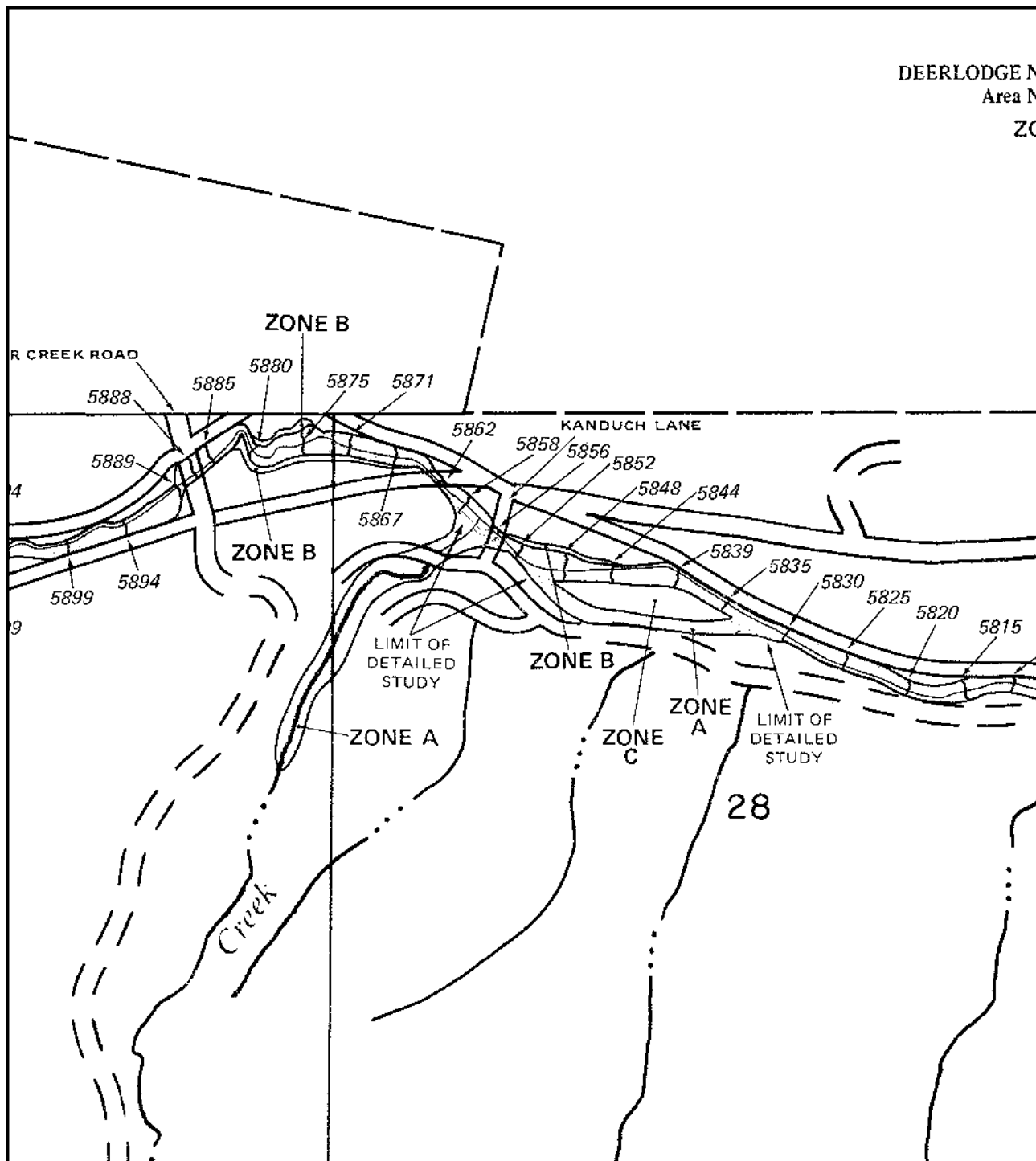
COMMUNITY-PANEL NUMBER  
300017 0020 B

EFFECTIVE DATE:  
DECEMBER 18, 1985



Federal Emergency Management Agency

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DEER LODGE N  
Area N  
ZC



APPROXIMATE SCALE IN FEET  
1000 0  
[Scale bar with markings for 0 and 1000 feet]

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

ANACONDA DEER  
LODGE COUNTY,  
MONTANA  
(UNINCORPORATED AREAS)

PANEL 20 OF 275  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

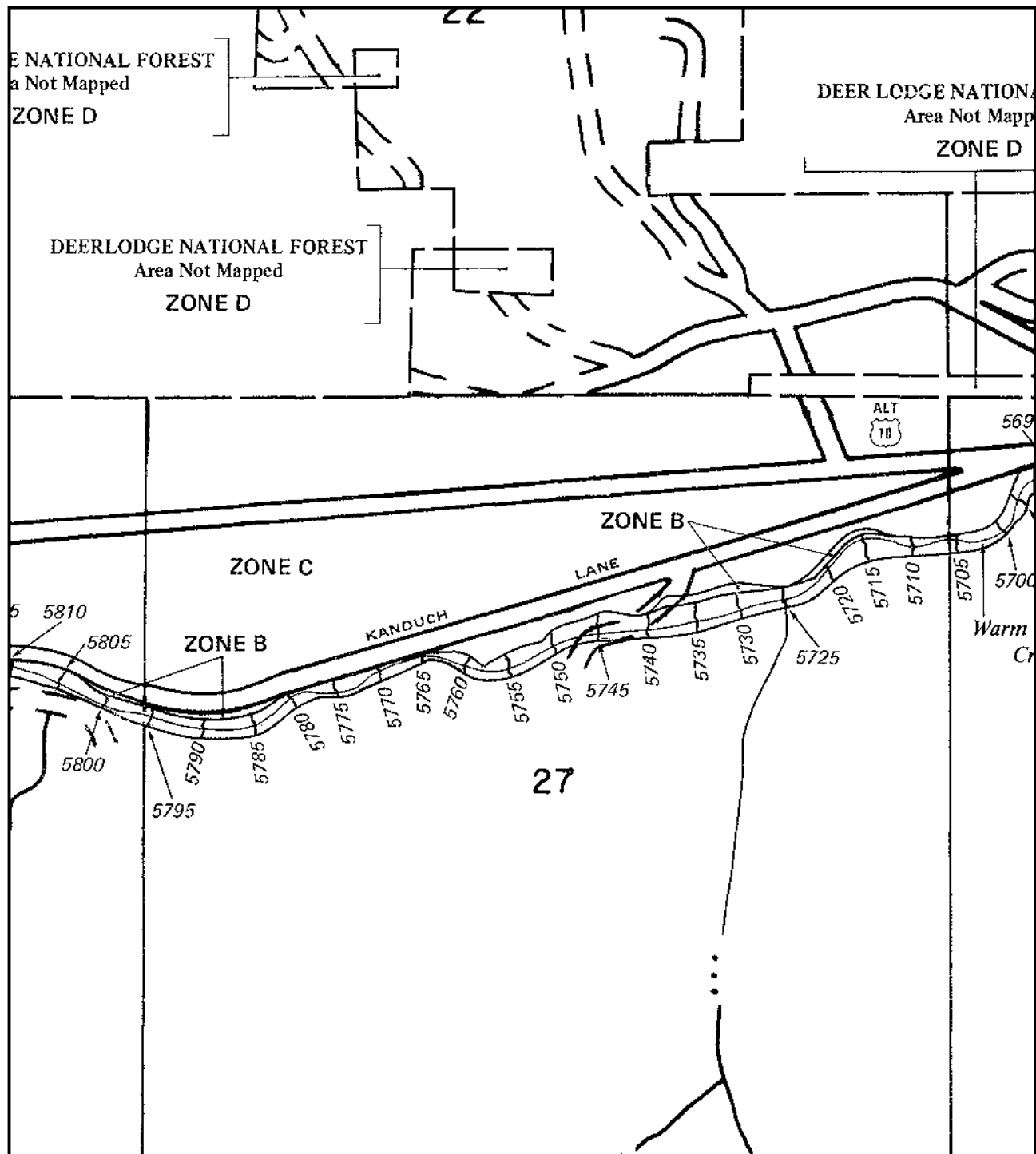
COMMUNITY-PANEL NUMBER  
300017 0020 B

EFFECTIVE DATE:  
DECEMBER 18, 1985



Federal Emergency Management Agency

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APPROXIMATE SCALE IN FEET  
1000 0

NATIONAL FLOOD INSURANCE PROGRAM

# **FIRM** FLOOD INSURANCE RATE MAP

ANACONDA DEER  
LODGE COUNTY,  
MONTANA  
(UNINCORPORATED AREAS)

PANEL 20 OF 275  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

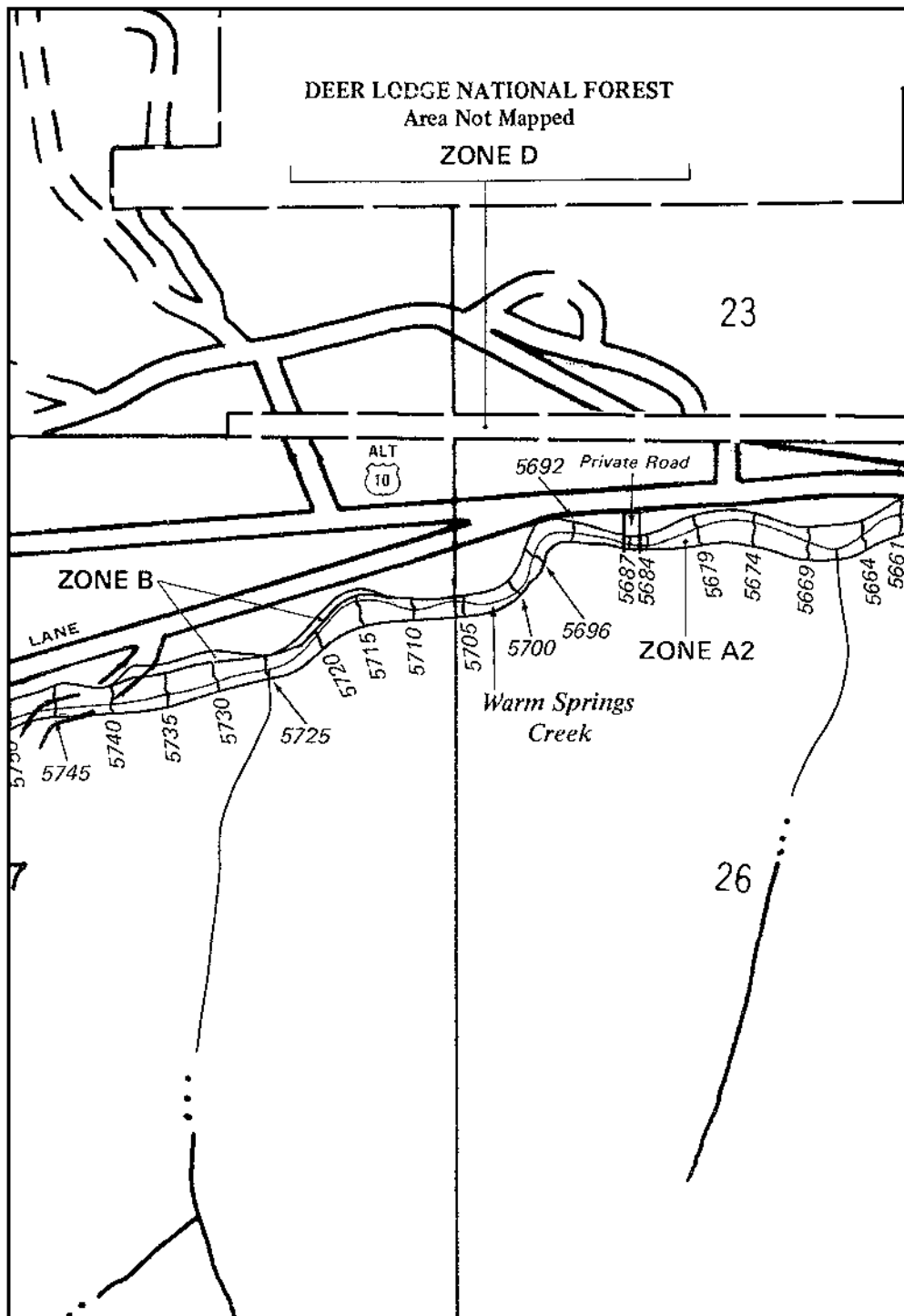
COMMUNITY-PANEL NUMBER  
300017 0020 B

EFFECTIVE DATE:  
DECEMBER 18, 1985



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)



FLOOD INSURANCE



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

ANACONDA DEER  
LODGE COUNTY,  
MONTANA  
(UNINCORPORATED AREAS)

PANEL 20 OF 275  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER  
300017 0020 B

EFFECTIVE DATE:  
DECEMBER 18, 1985

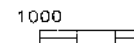


Federal Emergency Management Agency

Refer to the FLOOD INSURANCE RATE MAP shown on this map to determine flood zones for structures in the zones listed.

To determine if flood insurance is required, contact your insurance agent or the National Flood Insurance Program, at (800) 638-6363.

APPROXIMATE



TRAIL

T5N  
T4N

2

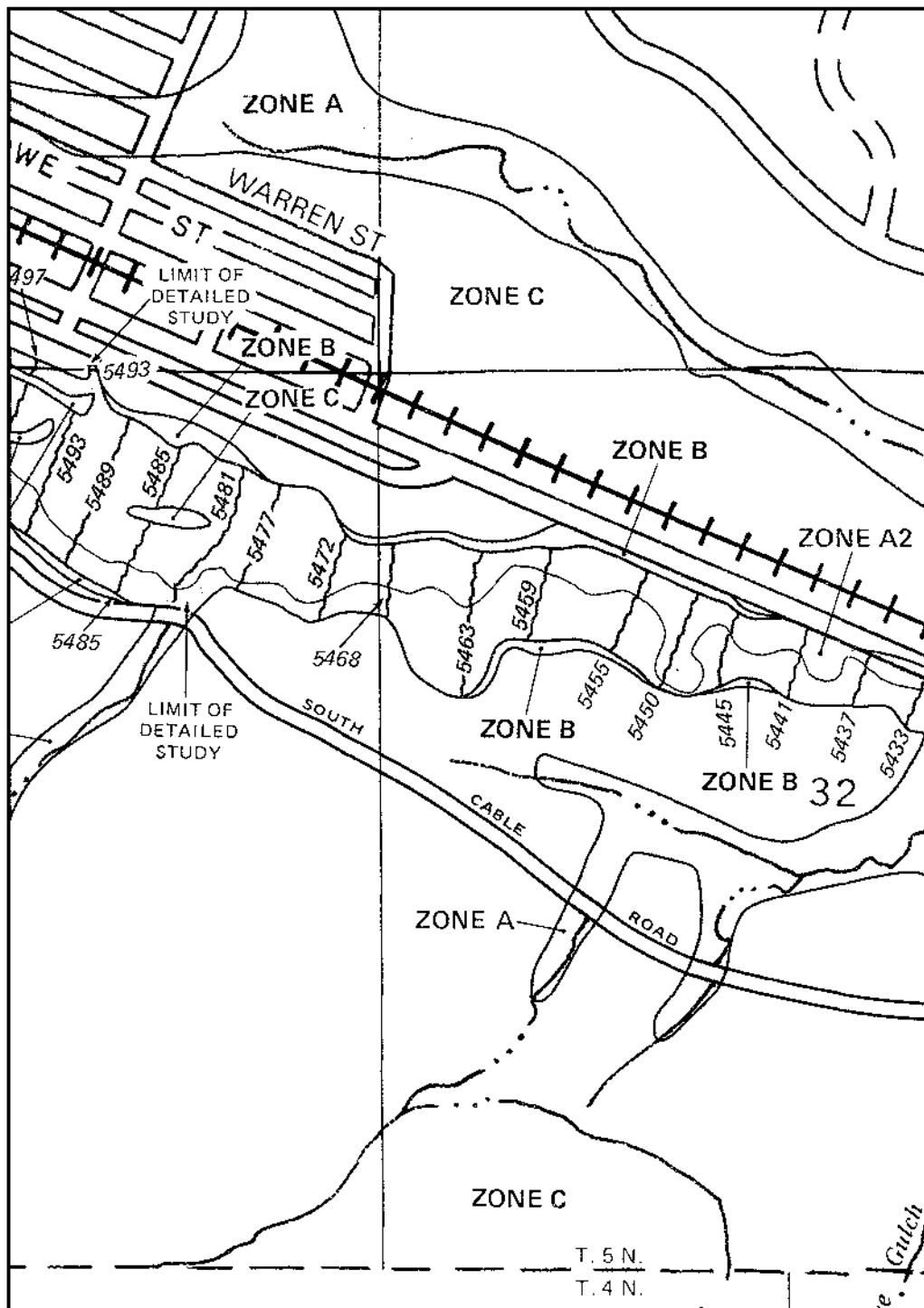
Gravel  
Pile

NAT

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APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

ANACONDA DEER  
LODGE COUNTY,  
MONTANA  
(UNINCORPORATED AREAS)

PANEL 40 OF 275  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER  
300017 0040 B

EFFECTIVE DATE:  
DECEMBER 18, 1985



Federal Emergency Management Agency

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## Appendix G: Irrigation Maps

# Water Resources Survey



Part I:

HISTORY OF LAND AND WATER  
USE ON IRRIGATED AREAS

and

Part II:

MAPS SHOWING IRRIGATED AREAS  
IN COLORS DESIGNATING THE  
SOURCES OF SUPPLY

*Deer Lodge County, Montana*

Published by  
STATE ENGINEER'S OFFICE  
Helena, Montana, June, 1955

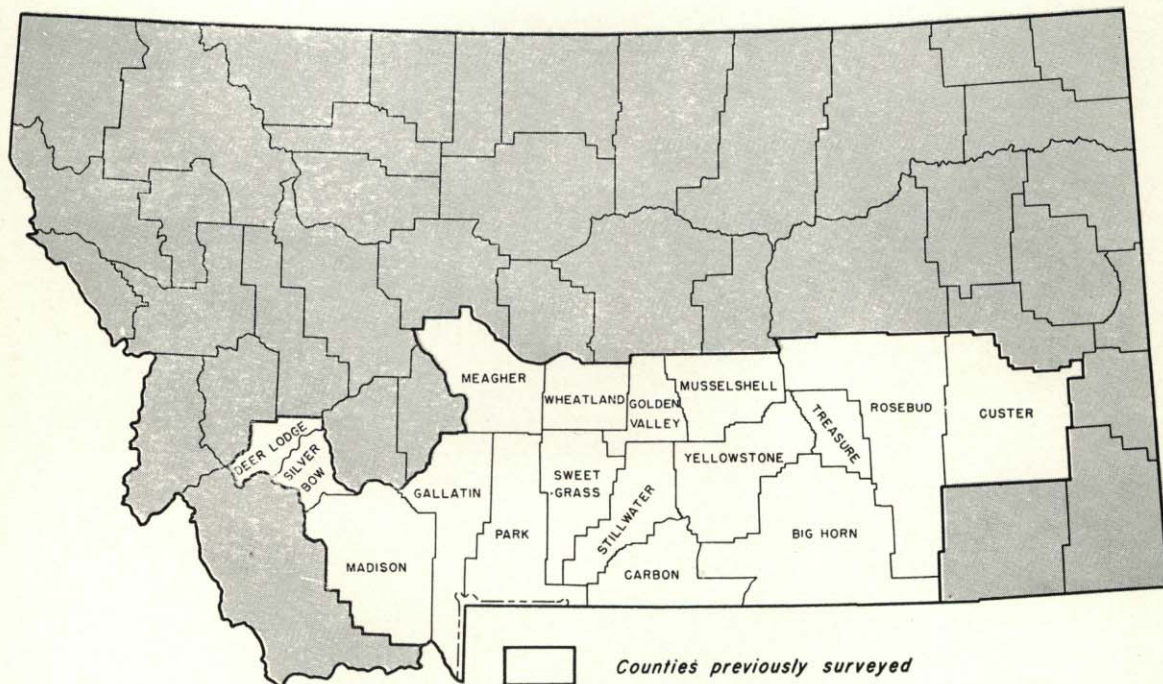


# WATER RESOURCES SURVEY

## DEER LODGE COUNTY MONTANA

### Part I

### *History of Land and Water Use on Irrigated Areas*



Published by  
STATE ENGINEER'S OFFICE  
Helena, Montana  
June, 1955

### STATE ENGINEER'S OFFICE

Fred E. Buck.....State Engineer  
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### MONTANA STATE AGRICULTURAL EXPERIMENT STATION

O. W. Monson, Irrigation Engineer, and Consultant, Bozeman



June, 1955

Honorable J. Hugo Aronson  
Governor of Montana  
Capitol Building  
Helena, Montana

Dear Governor Aronson:

Submitted herewith is a consolidated report on the Water Resources Survey of Deer Lodge County, Montana.

This work is being carried on with funds made available to the State Engineer by the 33rd. Legislative Session, 1953, and in cooperation with the State Water Conservation Board and the Montana State Agricultural Experiment Station.

The report is divided into two parts. Part I consists of history of land and water use, irrigated lands, water rights, e't.c., and Part II contains the township maps in the county showing in color the lands irrigated from each source or canal system.

Work has been completed and reports are now available for the following counties: Yellowstone, Carbon, Stillwater, Big Horn, Custer, Rosebud, Musselshell, Golden Valley, Wheatland, Meagher, Sweet Grass, Park, Treasure, Gallatin, Madison, Silver Bow, and Deer Lodge.

The office files contain minute descriptions and details of each individual water right, water and land use, etc., which are too voluminous to be included herein. These office files are available for inspection to those who are interested.

The historical data on water rights contained in this report can never become obsolete. If new information is added from time to time as new developments occur, the records can always be kept current and up to date.

Respectfully submitted,

FRED E. BUCK, State Engineer

## ACKNOWLEDGMENTS

A survey and study of water resources involves many phases of both field and office work in order to gather the necessary data to make the information complete and comprehensive. Appreciation of the splendid cooperation of various agencies and individuals who gave their time and assistance in aiding us in gathering the data for the preparation of this report is here acknowledged.

### Deer Lodge County Officials

Robert J. Daly, Commissioner

Leo F. Scalise, Commissioner

Florence Podobnik, Commissioner

May H. McGinty, Clerk and Recorder

Frank B. McGrath, Clerk of District Court

Charles Unti, Assessor

---

History and Organization.....Montana Writers' W. P. A. Project  
Dr. Merrill G. Burlingame—  
Consultant.....Department of History, Montana State College  
R. A. Dightman—  
"Climate" .....State Climatologist  
W. Clinton Bourne—  
"Soils".....Research Associate, Agricultural Experiment Station  
J. G. Jones—"Crops and Livestock".....County Agent  
Frank Stermitz—"Stream Gaging Stations".....U. S. Geological Survey  
U. M. Sahinen—  
"Mining".....Chief of Information & Service, Montana School of Mines  
A. S. Erickson—"Soil Conservation Districts".....Work Unit Conservationist  
A. E. Tangen—"Anaconda State Fish Hatchery".....Field Superintendent  
Ray West—"Deer Lodge National Forest".....District Forest Ranger, Anaconda  
Wilmer S. Fewins.....Secretary, Mill Creek Irrigation Co.

The State Engineer's Office, Water Resources Survey, hereby expresses sincere appreciation to the many ranchers, farmers, and stockmen who have given their helpful cooperation in this survey.

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## FOREWORD

In nearly all of the Western Reclamation States a water right is obtained by first making a filing with some legally designated central state agency—usually the State Engineer's Office—setting forth the amount of water desired and the area proposed to be irrigated. A study is made of the sufficiency of the water supply, and, if found adequate, a permit for the use of the water is issued and recorded. If studies show that the stream is depleted, the application is denied. The procedure in Montana, however, is vastly different.

In Montana the right to the use of water from a stream not adjudicated by the courts may be acquired in one of two ways. First, by posting a notice on the stream and filing a copy of same in the office of the County Clerk of the county wherein the appropriation is located and then proceeding to divert and use the water. Secondly, a person may divert and use water from a stream without posting or filing notice in which case a water right based thereon has been recognized as valid by the courts. Whenever it becomes necessary to adjudicate the stream both methods of acquiring rights have been recognized by the courts and the amount of water finally decreed and dates of priority in either case are determined by the evidences and proofs.

Under Montana law there is no restriction as to the amount of water one may designate in his notice of appropriation. As a consequence, the amount set forth in the filing in no way indicates the amount being diverted and used or does it show whether the water was ever used at all to perfect the right. Furthermore, there is no relationship whatsoever between the amount of water filed on and the normal flow of the stream. To further complicate this matter there is no law of abandonment in Montana. Action must be brought in court to abandon a right, which makes it almost impossible to prove abandonment if the defendant wishes to oppose the action.

There is no central office in the State where recordings are filed, or any supervision over the distribution of water from unadjudicated streams. The distribution of water from adjudicated streams is supervised entirely by the District Court that handed down the decree. One wishing to study the validity of a water right on stream not adjudicated must make a search of the county records wherein the stream is located in perhaps two, three, or more counties if the stream courses through them. About the only result one will accomplish by such a research will be a tabulation of the dates of filing. The amounts of water filed on will be of no consequence since there is no conclusive evidence that the recorded appropriations have been perfected, or is there any documentary evidence of the rights which are being used but never recorded. Therefore, a purchaser of ranch property, where he has to depend upon irrigation from a stream that is not adjudicated, has no way of determining the validity or priority of his water right. He has no assurance of the value of the right until the stream is adjudicated by the court, when each claimant must prove his claim by material witnesses.

The pioneers who are able to offer direct testimony in adjudication suits are rapidly passing. One phase of this Water Resources Survey is to obtain all of the first-hand information possible on water and land use from the "old-timers" who are left, before it is too late. These data will include every known water right up to the time of completing the work in the respective counties and the information is on file for inspection in the State Engineer's Office. At the time of this publication, work has been completed and reports are available for the following counties: Yellowstone, Carbon, Stillwater, Big Horn, Custer, Rosebud, Musselshell, Golden Valley,



Wheatland, Meagher, Sweet Grass, Park, Treasure, Gallatin, Madison, Deer Lodge, and Silver Bow. A person having interest in lands located in any one of the above-named counties may obtain a good idea of the sufficiency and priority of the water rights appurtenant to the land in question after studying the records in the State Engineer's Office.

In this and succeeding volumes of the data compiled by this Water Resources Survey, it is the intention to provide as much information as is possible relative to the water right records of the various counties, as well as to assemble such other information as may be available from all sources having knowledge of these various water rights. The location of the county where water right filings were first recorded presents a very difficult problem in compiling accurate verified water right information. In 1865, when Montana was still a territory, the area contained nine (9) original counties and by the time Montana became a state in 1889, the total of counties was increased to sixteen (16). During the period 1889 to 1895 this total changed to twenty-three; from 1895 to 1935 the total became thirty-five (35); and from 1935 to 1942 the number of counties created in Montana reached its present maximum of fifty-six (56). Throughout this evolution of counties there are many active recorded water right filings which have not been transcribed to the records of the county where they apply and are used today. Sometimes it is necessary to search the records of the original County, or subsequent County, in order to find water rights that have never been transcribed into the records of the present County. Every precaution is being taken to correct errors in the compilation of these data.

The results of this work, in the counties affected, proved to be very valuable and necessary in negotiating the Yellowstone River Compact between the states of Wyoming, North Dakota, and Montana. In arriving at an equitable division of the waters between the states, it was necessary for Montana to have a catalog of its irrigated land and water use. In the dispute with Canada over the use of water from Sage Creek, an international stream, the water resource survey played a very valuable part in justifying our uses for irrigation. This same question will undoubtedly arise in other river basins. It is highly important that Montana gather such data, and thereby be able to defend its water rights in the development of the great river basins of the Missouri and Columbia rivers and the international streams between Canada and Montana.

The subject of water rights is coming more and more into prominence as the rapid expansion of our irrigated area proceeds under the impetus of both State and Federal development programs. As new canals are dug and old canals and ditches are enlarged and extended, the relative area of land to be irrigated, compared to the water supply available for irrigation, becomes greater, and a competition for the limited water supply results, which often develops into controversy over the right of use of the water.

In a strict sense a water right does not imply ownership of the water in the same way as does a deed to a tract of land or a certificate of title to an automobile. A water right implies only the right to divert and use the water. Water when stored in a reservoir, however, is recognized as real property which may be sold or disposed of as desired by the owner. The ownership of the water of our rivers and streams rests in the State and the rules under which the State grants to the individual the right to use these waters are known as Water Right Laws.

The early settlers in Montana took up land under the provisions of the Homestead Law of 1862 and the Desert Land Act of 1877. The former Act gave 160 acres of land to anyone who settled on it and put it into cultivation. The latter deeded 640 acres of land to anyone who would irrigate it and pay the government \$1.25 per acre. In 1890, filings under the Desert Land Act were reduced to 320 acres. The construction of ditches on desert claims was in compliance



for title to land rather than for irrigation, and little attention was paid to the water supply available. Consequently, miles of ditches were dug in Montana through which little or no water ever flowed. This is especially true in the drier parts of the state, where the diversions were made from intermittent streams.

In the more fertile mountain valleys irrigation was given more importance than in the plains country. Live streams provided a dependable source of water supply and the ditches which tapped them were designed to actually carry water, not merely to comply with a legal requirement to obtain title to a piece of land. Thus, the right to diversion and use of water for irrigation became as important as the acquisition of title to the land.

But, while the government granted a patent as evidence of title to the land upon proof of compliance with the Homestead Laws, there was no deed, certificate of title, or other legal instrument offered as evidence of title to a water right.

Water rights refer also to uses other than those for irrigation. Thus, the perfected right to the use of water for mining, power, fish hatcheries, bird refuges, recreational purposes, municipal needs, culinary supply and sewage disposal, manufacturing or navigation—all may become valid water rights.

The first irrigators took for granted their right to use water from creeks or rivers for irrigation. They saw water going to waste and appropriated it to their needs. It was as free to them as the air they breathed. They made no official record of the game they shot for food or the fish they caught in the streams and likewise considered it unnecessary to make official record of the time, place, or the amount of water diverted for irrigation. However, time has changed these conditions and it is now necessary to record the game killed and limit the fish catch in order to perpetuate game, and stock the streams. Likewise, it is becoming more and more necessary to file a claim for water appropriated from the streams and rivers for irrigation or other uses in order to protect the rights.

When game was plentiful, no one concerned himself with the number of deer a person killed, but when game became scarce, steps were taken to prevent a few persons from taking more than their share while others had to go without. To do this it became necessary to issue licenses or permits to kill game and also to keep a record of game killed—a practice which is still followed.

Likewise, when only a few settlers diverted water for irrigation and the supply was more than enough for all, no one was concerned about the exact amount used by any one person. But as more and more settlers constructed diversion dams and ditches and tapped the river and streams for irrigation water, it soon became evident that there would not be enough water for all. Thus, a year with low water brought disputes over the division of the supply. The older settlers, in such cases, demanded that the later comers close down their headgates and refrain from taking water, in order that the prior appropriations might have a full supply. The later users, on the other hand, insisted that the available supply be divided among all users so that all might share alike.

Thus, progressive over-development of irrigation, together with the occurrence of seasons of water shortage, combined to bring about the enactment of Water Right Laws in the Western States where irrigation is practiced.



## METHOD OF SURVEY

Data incorporated in these reports were obtained by the office and field survey methods in cooperation with the irrigators on the lands.

Ownership plats are made up from the Courthouse records, after which field forms are prepared for each owner as they appear on the plats, showing the name of the owner, aerial photograph number and farm boundary. The appropriated and decreed water rights that fall within the ownership boundary are also platted on this field form. These water rights are then checked with the ownership and deeds in the Courthouse records to determine, if possible, the name of the present day water user. All the water right information is listed on the field form and later verified by the water user in a farm-by-farm survey.

For all irrigation systems water users are asked for specific information as to the source of water, present acreage irrigated, potentially irrigable acreage under existing works, seeped acreage, condition of irrigation system, type of system, and water supply.

The irrigated land classification practiced by this survey includes the following: All land normally irrigated within a two or three year period directly from an existing gravity ditch system; irrigated above a ditch by a sprinkler system; sub-irrigated due to ditch locations; or irrigated by pumping from streams, reservoirs, wells, sloughs, and sumps.

Potentially irrigable land classified by the survey is limited to those lands lying under existing ditches that have feasible qualifications necessary to become irrigated land. These qualifications include: water supply; seeped areas; land under ditches in need of repair; and abandoned ditches.

The information in regard to the location of the irrigation system, presently irrigated and potentially irrigable lands under existing works, is indicated on aerial photographs, with the exact location of each shown, and distinguished by color.

The data obtained by the field survey are mapped on township maps from the aerial photographs by means of projection. In addition to the information pertaining to irrigation, all culture, drainage, section lines, etc., is mapped in order to show accurate township plats for the area concerned. This information is then mapped by farm units on individual farm forms that show the farm boundary, the location and type of irrigation system, location of irrigated and potentially irrigable lands under the system, type of system and source of water. After these farm unit forms are completed, a summary is made of each township, which shows the name of the water user, section, township and range, source of water, whether a user has a private irrigation system or is under a ditch company or irrigation district, acreage irrigated from each source, present irrigated acreage, potentially irrigable acreage under existing facilities, and maximum irrigable acreage. The summary in these reports is then tabulated from the township summaries to show the totals for the county.

After this is accomplished and a final check made, color separation maps are drawn which includes from three to ten separation plates, depending upon the number of irrigation systems that appear in color on the final township map in Part II of the reports.

Section and township corner locations are obtained by the photogrammetric system, based on Government Land Office maps, county maps, plane table sheets and other sources.

So far as known this is the first survey of its kind ever to be ventured in the United States. The value of the work completed is well substantiated by giving Montana its first accurate and verified information concerning its water use and resources under existing irrigation facilities. New development of land for irrigation purposes, by State and Federal construction agencies, is not within the scope of this report. No effort is made to analyze economic possibilities, or the problems of the irrigation projects, or to make recommendations as to future development. The facts presented are as found at the time of completing each report and provide the items and figures from which a detailed analysis of water and land use can be made.

The historical data contained in these reports can never become obsolete. If new information is added from time to time as new developments occur, the records can always be kept current and up to date.



## HISTORY AND ORGANIZATION

Deer Lodge County was created by the first session of the Montana Territorial Legislative Assembly on February 2, 1865 and comprised an area 70 by 250 miles extending from Canada to the Big Hole River. From it have been carved the present counties of Powell and Silver Bow; greater portions of Glacier, Granite, and Lewis and Clark; and small parts of Pondera, Teton, Flathead, Missoula, Jefferson, and Madison. Through the evolution of counties in Montana, Deer Lodge County has become next to the smallest in the State.

The general topography of Deer Lodge County is mountainous in the extreme, the valleys being little more than depressions between mountain ranges. The average altitude is 6,000 feet, rising to over 10,500 feet on the mountain peaks.

The main range of mountains traversing the county is formed by the Continental Divide and is known locally as the Anaconda Range. Named for the town lying at its eastern base, the range extends westward and southward. The southern base of the range adjoins the broad valley known as the Big Hole Basin which is drained by the Big Hole River, via the Jefferson River, into the Missouri River.

At the western base of the range are the depressions occupied by Georgetown Lake (artificial), and Silver Lake, and a part of Warm Springs Creek Basin opening into the Deer Lodge Valley, which sections have drainage into a tributary of the Clark Fork of the Columbia River.

The county received its name from the Indian name "The White-tail Deer Lodge", because of the resemblance of a certain cone-shaped mound in the upper valley to an Indian Lodge. The mound is about 40 feet high and contains a hot spring. In the winter steam emerges from the top of the mound just like smoke from a lodge. The White-tail deer inhabited this part of the valley in great numbers, so the white man called the valley, county, river, and a town, "Deer Lodge".

While no definite record can be found to substantiate the fact, it seems likely the first person to range stock in the upper part of the Deer Lodge Valley was Jacques Faquaere, a French squawman and free trader. Faquaere drifted into Montana Territory from California in the fall of 1850, trailing a herd of 50 mixed cattle. The animals were weary and foot-sore, and finding good feed on "The Hump", about fourteen miles west of Butte, he established winter headquarters. Spring found the stock in excellent condition, so Faquaere broke camp and started down stream. By so doing he entered into the upper Deer Lodge Valley, only four miles from where he had spent the winter.

Jacques Faquaere was followed by others during the next decade, but for the greater part these were French-Canadians, who tarried a while and then drifted elsewhere. The majority of those who decided to remain located in the vicinity of what is now the city of Deer Lodge, then known as LaBarge City, and Cottonwood, in the lower end of the valley.

To William Price Thomas, a native of Wales, who migrated to the United States in 1850, goes the distinction of becoming the first permanent settler in the upper, or Warm Springs section of the Deer Lodge Valley.

With his wife and six children, Thomas arrived in the Deer Lodge Valley in April, 1865 and pre-empted a homesite on Warm Springs Creek, about seven miles below the present city of Anaconda. His original stock consisted of 20 head of mixed beef cattle and 30 head of



cayuses. In company with Jim Purdy, with whom he later formed a partnership, the original herd was increased to 500 head of cattle and 250 cayuses. Additional land was added to the homesite, of which 160 acres was devoted exclusively to the growing of hay. Approximately 300 tons of winter feed was cut with scythe each year and stacked by hand.

Thomas never owned a registered brand for his cattle, but the horses were marked JP, the initials of his partner. In later years he milked 14 cows, and soon developed quite a trade at Deer Lodge and Cable for his butter, which brought as high as \$2.00 a pound.

The Thomas family had barely located on Warm Springs Creek and were still engaged in putting up buildings, when neighbors arrived. They proved to be William M. James and his family, whose acquaintance the Thomas folks had made in Utah. James was born at Abeville, Wales in 1818, and underwent sufficient hardships to make him a pioneer before he eventually reached Montana. When he pre-empted a tract of ground on Warm Springs Creek in 1865, within a stones-throw of the Thomas homesite, he became the second settler in this part of the valley.

William James died March 6, 1903 at the age of 85 and his memory is revered by all who had occasion to know his friendship. The old original ranch home stood on the site of present day Willow Street in Anaconda. Such industrial plants as the Butte, Anaconda and Pacific Railway shops and the Anaconda Street Railway barns occupy places on the old homestead. Later the family home was moved to the present site of Washoe Park, where it is still used as quarters by the caretaker.

What is now regarded as one of the best income producing tracts of land in the Deer Lodge Valley was homesteaded about 1865 by William McGill. It lies across the road directly east of the main entrance to the State Tuberculosis Hospital grounds at Galen.

McGill eventually sold to Giles Brownell, who immediately replaced the cattle with race horses. Brownell was partial to horses and especially to those capable of showing speed. It was this love for horseflesh that brought him to the attention of Marcus Daly who owned a number of the animals that Brownell kept on the place. Brownell eventually opened a livery stable in Anaconda, but continued to operate the ranch up to the time of his death.

Marcus Daly was not much more than forty years old when he began building the city of Anaconda. In this matter he was governed by the considerations relating to the proper development of the great mining industry in Butte which he had founded and fostered.

In the fall of 1882, there was a current rumor in Butte that the Anaconda Company was about to locate a smelter either at some point on the Big Hole River or on Warm Springs Creek in the Deer Lodge Valley. The report did not create much interest in Butte as it was thought that a little one-horse town would spring up around the smelter, but no one in Butte fully realized the magnitude of the Anaconda Mining Company properties.

Early in the spring of 1883, it became known for a certainty that Mr. Daly had decided upon the Warm Springs site, but there was nothing like a stampede to the area. Nobody regarded it as a significant event in Montana history. There were even those who scoffed at the whole project as visionary and impractical.

Morgan Evans, an early settler and prosperous rancher in the Valley, was commissioned by Mr. Daly to buy the land needed for the smelter and townsite. Daly, in company with Evans,



drove to the site of the future town and camped for a day under the hill by the site of the present Protestant Cemetery. It was a very beautiful valley they gazed upon. The mountains to the south of the city were then thickly studded with fir trees from the foothills to the summit; while Warm Springs Creek, far as the eye could see, was densely lined with cottonwoods of most luxuriant growth. In places, it was next to impossible to get through the rank vegetation to the water.

The site of the city proper was a fine stretch of open prairie. William Reed, later of Columbia Falls, who was the Company's first bookkeeper in Anaconda, said that he well remembers that "while we were surveying, we saw ten White-tail deer scamper across our townsite, making for the little canyon south of us (Sheep Gulch)".

In May, work actually began by the digging of a big ditch to convey water from the creek to the smelter site—the Upper Works. This location was deemed best because of the accessibility of water for drinking, cooking, and laundry purposes. Later on, wells were dug for dwellings and good water was struck at a depth of 25 feet.

Today Anaconda, the county seat, modern and up-to-date in all respects, is the only city in the county. The Anaconda plant, which treats most of the ore from Butte, is the largest copper smelter in the world. The smokestack at the smelter is the highest — 585 feet. A large State Fish Hatchery is maintained at Anaconda from which many streams are stocked annually. Located at Warm Springs is the Montana State Game Farm operated under the auspices of the State Fish and Game Commission. Other institutions in the county are the State Hospital for the Insane at Warm Springs, and the State Tuberculosis Sanitarium at Galen.

In 1950, Deer Lodge County had a population of 16,553 and was ranked eighth among the counties in Montana. In area, the county is next to the smallest in the state covering only 738 square miles. Bordering Deer Lodge County on the north are Granite and Powell counties; on the east Jefferson and Silver Bow counties; on the south Beaverhead County; and on the west Granite County.

## TRANSPORTATION

In Deer Lodge County, highway and county road facilities are very good, but railroad transportation is limited to a small area in the eastern party of the county.

Anaconda, the county seat, is served by the Butte, Anaconda and Pacific Railway from Butte. This road transports principally the ores and materials from Butte to Anaconda.

Entering the county near Gregson Hot Springs are the main lines of the Northern Pacific Railway and the Chicago, Milwaukee, St. Paul and Pacific Railroad. These railroads course through the eastern part of the county passing through or near the towns of Warm Springs and Galen and leave the county at Race Track.

The main Federal and State highways are U. S. 10 South and 10 A. and State Highways 48 and 43.

U. S. 10 South enters on the east near Gregson Hot Springs and leaves the county at Race Track. U. S. 10 A crosses from east to west, beginning at U. S. 10 South near Gregson Hot Springs and leaves the county at Georgetown Lake on the west.



State Highway No. 48, a cut-off between Anaconda and Warm Springs, connects U. S. 10 A with U. S. 10 South. State Highway No. 43 follows the county boundary along the Big Hole River, entering from near the mouth of Bear Creek on the east to Pintlar Creek on the west. An improved county road connects State Highway No. 43 at Ralston with U. S. 10 A about three miles east of Anaconda.

In connection with the above railroad and highway facilities, Anaconda is connected to Butte and other major cities by the Intermountain Transportation Company, Greyhound Bus Lines, and various freight truck lines.

The nearest airport facilities are at Butte where connections can be made with Western and Northwest Orient Airlines.

### CLIMATE

The Continental Divide crosses Deer Lodge County in an East-West direction just south of Anaconda, and forms the eastern boundary of the county. The headwaters of the Clark Fork of the Columbia River rise on the north slope of the Divide in this general area. The elevation of the greater portion of the county is more than a mile above sea level. As to be expected, temperatures for this high elevation area are cooler than those observed in most sections of Montana. This is reflected in the yearly average temperature of 42.4° at Anaconda and 42.2° at East Anaconda, while the Montana yearly average is 43.2°.

Spring and early summer are cool and cloudy with frequent showers or general rains. June is the wettest month with a precipitation average of more than two inches. February is the driest month with an average of less than three-fourths inch. Precipitation records are not available for the high mountain areas, but like all western mountains winter snowfall accumulations are rather heavy and do not melt until late spring or early summer, providing early growing season irrigation water for lowland areas.

Clear skies and warm days prevail during the late summer and early fall with occasional periods of cloudy showery weather. Because of the high elevation, the diurnal range of temperature is greater than in lower areas, therefore, the days usually are warm and the nights cool. Occasional outbreaks of cold Polar air will bring periods of several days during the winter months when minimum temperatures may be zero or lower, but due to the shielding of the Rocky Mountain Range temperatures are not so severe as on the eastern slopes and on the plains. The storms that accompany these cold outbreaks last about two or three days, and are not usually severe. Thundershowers occur rather frequently during the summer months. Severe storms, such as violent thunderstorms, tornadoes, and damaging windstorms are rare.

The average length of the growing season, the period between the last killing frost or freeze in the spring and the first in the fall is only 98 days at Anaconda, and 117 days at East Anaconda. Frost or freezing temperature has been recorded every month of the year at these two stations, but generally the last frost of the spring is about June 8, and the first in the fall around September 14 at Anaconda, and about May 27 and September 21 at East Anaconda.

A weather record has been kept at the Anaconda Copper Company Smelter since 1905 in East Anaconda, and at Anaconda from 1894 to 1925. A Precipitation-only station was established at Silver Lake in April of 1950, but the Anaconda Company kept records for a number of years prior to the establishment of this station. A tabulation of precipitation and temperature data is listed below for Anaconda and East Anaconda; and precipitation data for Silver Lake.



### TEMPERATURE

	Highest of Record	Lowest of Record	January Average	July Average
Anaconda (Elevation 5330).....	102	—35	24.2	63.4
East Anaconda (Elevation 5511).....	100	—35	21.8	65.9

### PRECIPITATION

	Yearly Average	Growing Season Average*	% Growing Season*	Wettest Year	Driest Year
Anaconda .....	14.24*	9.00	63	18.89 (1908)	9.03 (1902)
East Anaconda .....	13.45	8.72	65	19.11 (1908)	7.32 (1931)
Silver Lake .....	21.77	13.27	61	34.86 (1908)	13.35 (1935)

\*April through September.

### SOILS

Deer Lodge County is in southwestern Montana within the Rocky Mountain Physiographic Province. It is predominantly mountainous, but includes some relatively level lowlands in the Deer Lodge and Big Hole valleys. Also, there is a broad relatively smooth saddle or divide in the vicinity of Georgetown Lake west of Anaconda.

As is typical of areas with widely differing topography, geologic formation, and climate, the soils of Deer Lodge County range widely in natural classification. They include both grassland and forest soils.

The former occur chiefly at the lower elevations in the relatively drier sites, the latter in the mountains where precipitation is higher or evaporation lower so that more moisture enters the soil. In the driest parts of the grasslands the chief soils belong to the Brown great soils group—i. e., they have thin grayish brown surface soils and brown prismatic upper subsoils, and are underlaid by light gray horizons of lime carbonate accumulation beginning at 8 to 12 inches. As effective precipitation increases and the grassy vegetation is more luxuriant the surface and subsoils become darker and thicker, and the great soil group changes to Chestnut (dark brown) and then to Chernozem (black). In forested parts of the county the soils belong chiefly to the Gray Podzolic great soil group—i. e., they have leached, light gray surface soils underlying the litter on the forest floor and, where best developed, darker, and more clayey subsoils.

The agricultural soils of Deer Lodge County are confined chiefly to the terraces in the vicinity of Galen in the north part of the county and to the benches north of the Big Hole River in the southwest part of the county. These two areas differ markedly both as to natural classification and use suitabilities. The cultivated soils in the vicinity of Galen are Brown grassland soils developed in deep, permeable, calcareous fine earths. Burnt Fork silt loam and related soils are the most extensive. They have high natural fertility and with proper management produce well under irrigation. The growing season is sufficiently long to mature potatoes, small grains, and hay.

Soils on the benches north of Big Hole River are chiefly Chernozems (black soils) and dark Chestnuts (dark brown soils). They are developed under grassland vegetation but require a higher effective rainfall for development than the Brown soils. The most extensive well drained soils are loam and cobbly loam types of the Phillipsburg, Quigley, Charlos and Bass series. These are reasonably permeable, deep soils of moderate to high natural fertility. Associated with them are types of the Ravalli series which are claypan soils or "slick spots". In the swales



and along the streams, dark, poorly drained soils high in organic matter, such as the Gallatin series, occur. Since the growing season is too short to mature small grains in all years, the principal land use is hay under irrigation and range under dryland conditions.

Soils in other parts of the county vary widely. On stream bottoms they range from excessively drained and gravelly to poorly drained and high in organic matter; in reaction they vary from very acid to alkaline and saline. These soils are used chiefly for grazing and hay production or are waste land. Soils of the mountainous areas are chiefly kinds which develop under forest vegetation such as Gray Podzolic or Brown Podzolic. Immature profiles predominate. Grassland soils ranging from Chernozems to Browns occur on some of the lower slopes with southeast to southwest exposures. As in the forested areas they are predominantly immature. Parent materials from which the soils have developed include granites, andesites, quartzites, limestones, sandstones, shale and glacial till. The latter is particularly extensive in the valley and highlands west of Anaconda and on the mountainous slopes north of the Big Hole River. Land uses in the mountainous areas include timber production, grazing, and recreation.

### **CROPS AND LIVESTOCK**

Deer Lodge County, one of the smaller counties of the State, has a land area of only 472,320 acres of which 46.1% is in farms. The remainder of the land is largely mountainous, in private and National Forest holdings. Practically all of the private holdings in the mountainous area belong to the Anaconda Copper Mining Company.

There are, according to 1950 census figures, 116 farms in the county, with 68 of these classed as commercial farms. The remaining 48 farms are mostly small acreages whose operators are employed in industry or non-farm occupations and use their farms for supplementing the family living.

Farming in Deer Lodge County is almost entirely dependent upon irrigation, with the production of hay the major crop. Other important crops are small grains and potatoes. Deer Lodge County is one of the largest producers of Certified Netted Gem potato seed in Montana, with nearly 800 acres devoted to this crop. Some dryland wheat is grown, although the greatest acreage of spring grains are grown under irrigation.

Most of the hay and grain grown is used locally to feed livestock. There is very little surplus of either commodity.

One large corporation farm, The Mount Haggin Land and Livestock Corporation, owns approximately 90% of the agricultural land in the county which is used to maintain its sheep operations and is in part leased to individual operators.

Deer Lodge County is predominantly a range livestock county and the home of one of the most famous purebred sheep ranches in the State, The Mount Haggin Land and Livestock Company, producers of Hampshire and Columbia sheep. The county lies across the Continental Divide along the south boundary taking in a small triangular section of the famous Big Hole Valley. The major portion of the 5,100 head of cattle shown on the Assessor's records are raised in this portion of the County. The county records also show 6,800 head of ewes listed which are practically all under one ownership.

A few small dairies help provide milk for the city of Anaconda and Butte, although all of this section is a dairy import area.

While the number of livestock is small, the quality is generally excellent. The size of the County, its mountainous topography, and the large amount of land which is utilized for industrial purposes limits the Agricultural potential of the County.



## **WATER SUPPLY**

The Continental Divide separates the drainage of Deer Lodge County into two major river basins: the Columbia, and the Missouri. This area, being a part of the headwaters of the Big Hole River and the Clark Fork of the Columbia, consists of small individual irrigation systems rather than large incorporated or mutual use projects.

### **The Missouri River Basin**

The east slope of the Continental Divide within Deer Lodge County drains into the Big Hole River, which flows into the Jefferson River, and finally into the Missouri River. The Big Hole River has its headwaters in the drainage area of the Beaverhead Range of Mountains along the western border of Beaverhead County. This river flows out of Beaverhead County forming the southern boundary of Deer Lodge County. Tributaries of the Big Hole River in Deer Lodge County flow in a southerly direction and the streams of principal irrigation importance are Pintlar Creek, Mudd Creek, Fishtrap Creek, LaMarche Creek, Seymour Creek, Deep Creek, and Bear Creek.

### **The Columbia River Basin**

That portion of Montana west of the Continental Divide drains into the Columbia River Basin through the Clark Fork and the Kootenai Rivers. The Clark Fork was named for Capt. William Clark of the famed Lewis and Clark expedition. Originally, the name "Clark Fork" probably applied to the river from its headwaters to its confluence with the Columbia River north of the International Boundary in British Columbia. However, the Clark Fork of the Columbia since that time has been given other names in different localities along its length by the people as the country was settled, and water filings have been made using these local names. In order that these filings correspond to the different named segments of the river, it was known as follows: Headwater streams were considered to be Silver Bow Creek and German Gulch Creek, which combine near the railroad station of Durant in the western part of Silver Bow County, to form the Deer Lodge River. This designation existed to the confluence of the Little Blackfoot River with the Deer Lodge River near the town of Garrison in Powell County. Below this point and to the confluence with the Blackfoot River near the town of Bonner in Missoula County, it was known as the Hellgate River. From this point to the junction with the Flathead River near the town of Paradise in Sanders County, the stream was called the Missoula River. Between the mouth of Flathead River and Lake Pend Oreille in Idaho it took the name Clark Fork River, and from Pend Oreille Lake to the Columbia River it was known as the Pend Oreille River.

Tributary streams in the Columbia River Basin, in Deer Lodge County, of importance to irrigation are: Willow Creek, Mill Creek, Warm Springs Creek, Lost Creek, and Race Track Creek.

## **STREAM GAGING STATIONS**

The United States Geological Survey carries on the work of measuring stream flows in co-operation with funds supplied by the State and several Federal agencies. The results are tabulated in book form, the last publication being in 1949. The water year, as published in the books, begins October 1 and ends September 30 of the following year.

Following are equivalents useful in converting from one unit of measurement to another:

- (a) In Montana, one cubic foot per second equals 40 miner's inches.



- (b) One acre foot is the amount of water required to cover an acre one foot deep.
- (c) One cubic foot per second will nearly equal two acre feet (1.983) in 24 hours.
- (d) A flow of 100 miner's inches will equal five acre feet in 24 hours.
- (e) One miner's inch flowing continuously for 30 days will cover one acre 1½ feet deep.

### **Georgetown Lake**

Georgetown Lake is an artificial reservoir. Storage began in 1905 for pumpage into Warm Springs Creek for use at the smelter in Anaconda, or for release for generating power on Flint Creek. The usable capacity from Georgetown Lake is 31,000 acre feet.

### **Flint Creek**

A gaging station is located on Flint Creek ½ mile below the power plant at Georgetown Lake, or 3 miles northwest of Southern Cross. Records are available from October 1, 1940 to September 30, 1954. The drainage area above the gage, part of which is in Deer Lodge County, is 52.6 square miles. The flow is regulated by storage in Georgetown Lake. The average discharge from the 14 years of record is 33.4 cfs. The maximum discharge over the period of record was 174 cfs (June 13, 1942). The minimum flows were probably, August 20, 1943 and May 23, 1952 when the generator was shut down. At times the flow may be augmented by trans-basin diversions by pumping water from Silver Lake to Georgetown Lake or vice versa.

### **Race Track Creek**

The gaging station was located three miles above Race Track ranger station, ten miles north of Anaconda, or 9½ miles above the mouth of the creek. Records are available from July 11, 1911 to November 9, 1912. The drainage area above the gage is 39½ square miles. Numerous diversions for mining were above the gage. During the short period of measurement, the maximum flow was 515 cfs (June 10-14, 1912) and the minimum flow was 16 cfs at various times during February and March, 1912. The maximum flow in acre feet was 22,100 in June, 1912. The records are of too short a duration and too intermittent from which annual flows can be deducted.

### **Big Hole River**

A gaging station is located at the bridge on U. S. Highway 91, an eighth of a mile from Rock Creek, or 8 miles south of Melrose. Records are available at this station from March 15, 1924 to September 30, 1954, but the records are fragmentary from 1924 to 1932. The drainage area above the gage is 2470 square miles. The maximum discharge observed over the 22 years of record was 23,000 cfs (June 14, 1927) when Wise River Reservoir Dam failed. The maximum discharge unaffected by the dam failure was 14,100 cfs (June 3, 1948) and the minimum was 49 cfs (August 17, 1931). The average discharge for the 22 years of record is 1,124 cfs. There are many diversions above the gage for irrigation of about 136,000 acres of land in the Big Hole Basin.

## **MINING**

Deer Lodge County is important to the mineral industry not so much for its mining as for its metallurgical industry. At Anaconda, the county seat, is one of the world's largest smelting plants, owned and operated by the Anaconda Copper Mining Company. The smelter treats the copper, lead, zinc, silver, and manganese ores principally from the Butte district. The final products of the plant are copper anodes (sent to Great Falls for final refining), slab zinc, ferro-



manganese and manganese oxide sinter, phosphate fertilizer, sulphuric acid, and white arsenic. By-product metals such as gold, silver, platinum, cadmium, germanium, etc., are recovered from refinery sludges in plants outside of Deer Lodge County.

The mines of the county were valued more for their precious metal output (gold and silver) than for their production of base metals such as copper, lead, and zinc. Since 1904, (when detailed statistics compiled by the U. S. Geological Survey and the U. S. Bureau of Mines first became available) to the end of 1953, the county has produced gold, silver, copper, lead, and zinc valued at \$8,248,857. Of this total, gold has accounted for 84 per cent, silver for 12 per cent, copper for 3 per cent, and lead and zinc for the remaining 1 per cent. For the 39 years prior to the application of War Production Board Order L-208 on October 8, 1942, restricting gold mining, the county produced about \$208,000 in metals per year. Since that time yearly production has averaged only \$8,200 in value, with a maximum production valued at \$29,230 in 1950. This drastic curtailment in production is due simply to the inability of gold mining to stage a comeback in the face of rising costs since the suspension of Order L-208.

In the last year or so, mining interests have turned their attention to tungsten ores of the county. By the help of modern prospecting methods utilizing "black" or ultraviolet light, notable deposits of scheelite (the fluorescent calcium tungstate) have been found. Deposits of apparent commercial significance occur in the Storm Lake area, north and south of Silver Lake, and north of Anaconda in the Olson Mountain area. The county may well again become an important mining region, with strategic tungsten the valuable mineral.

The county also produces limestone for smelter flux and sand and gravel for the construction industry.

#### **Blue Eyed Nellie (Silver Lake)**

The Blue Eyed Nellie district is in the vicinity of Browns siding, 6 miles west of Anaconda. Small mines and prospects showing metalliferous ores occur over a large area, but they are not closely spaced. Silver is the principal metal. The Blue Eyed Nellie, credited with a production of several hundred thousand dollars, was the most important mine.

On the slope to the northeast of Warm Springs Creek, the prevailing rocks are sedimentary—mostly Paleozoic limestone, complexly faulted and in places closely folded. They are intruded by granitic and basic igneous rocks which locally have caused considerable contact metamorphism. Nearly all the ore deposits are argentiferous replacement deposits in calcareous rocks. Some are thinly tabular bodies following bedding planes but most appear to be chimneys or pockets of very irregular shape. The Morgan Evans veins are a fissure filling in basic diorite. The Black Chief magnetite deposit is of contact origin.

A list of the mines includes the following: Blue Eyed Nellie, Mayflower, Greyrock, Black Chief, Cameron, Antelope and Chain (\$60,000), Morgan Evans, George, Jetty, New Year (Emma), Welcome, Silver King, Silver Queen, Carp, Okoreaka, Silver Hill, and Silver.

#### **French Gulch**

French Gulch Creek is a south flowing tributary entering the Big Hole River about 20 miles northwest of Divide, a station on the Oregon Short Line Railroad. The district is about 12 miles south of Anaconda and lies on the south flank of the Anaconda range, over the divide from the German Gulch district. Placer gold was discovered here in the early 60's, and by 1870 the district is said to have yielded over \$1,000,000 in placer gold. Production since that time has been intermittent, the last recorded activity being in 1949 when \$2,564 in gold was produced.



No lode deposits of consequence have as yet been discovered in this area, and it is thought by some that the region is worthy of careful prospecting with a view towards locating the source of the placer gold. However, it is very likely that the gold in the placers was derived from low grade deposits similar to and possibly extensions of those in German Gulch to the northeast.

### **Georgetown—Southern Cross—Cable**

These districts are in the northwest corner of Deer Lodge County, about 15 miles west of Anaconda, and include the area north of Silver Lake and west of Warm Springs Creek. The total production including the Red Lion district to the north, up to 1907, is given at about \$5,000,000. This is the most important gold mining area in Deer Lodge County and was still active in 1951.

The country is in an area of faulted and folded sedimentary rocks, mainly of Paleozoic age, cut by intrusive granite and related rocks. The granite occupies an area of several square miles, just east of Georgetown. Its boundaries are rudely circular, but small apophyses and dike-like masses occur in the surrounding sediments. The most important mines are in the sedimentary rocks near the granite contacts, and others occur entirely within the granite area. Named in order of their importance the deposits have been divided as follows: 1. gold-copper replacements of contact origin; 2. gold-bearing replacement veins in sedimentary rocks; 3. gold-bearing veins in granite; 4. silver-bearing replacement deposits in calcareous rocks; and 5. contact deposits of magnetic iron ore. Gold also occurs in placers some of which were very profitable. The important properties are: Cable, Southern Cross, Gold Coin, Twilight, Montana, Orphan Boy, Almaden, War Eagle, Reliance, Golden Gate, Pyrenees, Luxemborg, Silver Reef, and Ontario.

The Cable placer was a bonanza. The gravels of Cable flats are gold-bearing but are too deep for most modern types of dredges.

### **Heber (Mill Creek)**

The Heber district is on Mill Creek a few miles south of Anaconda. The area has not been important as a producer of metallic ores. The latest recorded production was \$848 in gold in 1941. The ores from the Spain mine carried gold, silver, and a little copper. The district has also produced some lead ore.

The rocks at the head of Mill Creek belong to the Belt series. Locally they are covered by volcanics thought to be of Cretaceous age. The lower part of Mill Creek flows through an area underlain by a large granitic stock.

### **Oro Fino (Dry Cottonwood)**

This district is on the western slope of the Continental Divide about 8 miles east of Race-track, a station on the Northern Pacific, and Chicago, Milwaukee, and St. Paul Railroads. Several placer and lode deposits have been worked here within the last 50 years. Total production through 1948 is estimated at about \$400,000, mostly in silver from the Champion mine. Caribou, Oro Fino, and Dry Cottonwood placers were worked in the early 60's. Dry Cottonwood, dredged in 1910, also yielded sapphires. The Champion was first operated in 1886-88 and again from 1920 to 1926. The district was last active in 1948.

The country rock of the region is Butte 'granite', and the ore deposits occur in veins. Outcrops are generally concealed. The Champion ore consisted of quartz with a small amount of sulphides including ruby silver. On the Last Resort, the ore was early limonite stained with copper carbonate and carrying residual pyrite and galena. Ore from the St. Louis yielded



gold, silver, copper, and lead. The Jackpot ore carries copper with some molybdenite. Ore from a recently opened deposit consists of quartz with some sulphides, chief of which is ruby silver. The mines are: Champion, John, Independence, and Cashier.

#### **Lost Creek—Dry Gulch—Antelope Creek**

This district is in the foothills a few miles north of Anaconda. Placer gold has been produced from Modesty, Lost, and Antelope Creeks and their tributaries in the early days and since 1920, small amounts of placer gold have been produced yearly from Dry Gulch. Production, however, has not been very important. In 1931, a test shipment of gold ore was made from the Dark Horse mine. No lode mines were active in 1954. The last reported production was \$175 in placer gold in 1946.

The district lies along the east slope of Flint Creek (Philipsburg) Range. The creek valleys have been formed in glacial gravel.

### **SOIL CONSERVATION DISTRICTS**

A Soil Conservation District is a legal subdivision of the State, established by the farm and ranch owners and operators, which permits group action in dealing with the problems in soil erosion, moisture conservation, soil fertility, and land use.

The Montana State Soil Conservation District Law was passed by the 26th General Assembly on February 28, 1939, and gives the authority for organizing Soil Conservation Districts within the State. Under provisions of the Law, no district can be formed unless the people want it, nor unless they register this want; first by petition, and later by a favorable vote of at least 65 per cent of the qualified voters in the proposed district. The law also provides for the formation of a State Soil Conservation Committee, which assists in the organization of districts and also in securing cooperation from State and Federal agencies.

The main governing body of a Soil Conservation District is the board of five supervisors who are elected by the people of the District. This board is empowered by the law to study the conservation problems of the district and to formulate programs to deal with these problems. This board may call upon local, state, and federal agencies to assist in executing the district's program, and, by applying to the Board of Supervisors, farmers and ranchers may obtain such technical assistance as the District may have without expense to the operator. The use of other facilities, such as earth-moving equipment, owned, leased or contracted for by the Districts are made available at rates fixed by the Board of Supervisors.

In the State at the present time there are 59 Soil Conservation Districts organized, and 22 Cooperative State Grazing Districts receiving technical assistance from the Soil Conservation Service in conducting conservation programs.

Two Soil Conservation Districts have been organized in Deer Lodge County. The portion of the county lying north of the line between townships 4 and 5 north is included in the Deer Lodge Valley Soil Conservation District with headquarters in the town of Deer Lodge, while the balance of the county is contained in the Mile High Soil Conservation District, headquartered in Butte. Approximately 165,053 acres of Deer Lodge County is in the Deer Lodge Valley Soil Conservation District. The districts were organized in 1949 and 1951 respectively. The majority of the farming area of Deer Lodge County is within the Deer Lodge Valley Soil Conservation District including the area along Warm Springs Creek west of Anaconda and the bench land along Race Track, Modesty, and Lost Creeks together with the lands along the



Clark Fork River. In the southern portion of the county, farming is confined to small but numerous and rather isolated pockets of fertile land along the many small creek courses.

The governing body of the districts have signed memorandums of understanding with the U. S. Soil Conservation Service and the State Extension Service to provide technical and educational assistance. They have developed district programs and work plans describing their own problems and the way they intend to meet them. Although the problems in these districts vary, their annual plans have stressed guidance in proper land use and the development of sound conservation measures on these lands. The majority of the work completed to date consists of land leveling, drainage, improved irrigation canals, and improved methods of distributing irrigation water on the fields. The district stresses improved pastures and management of ranges along with crop rotation, weed control, and range re-seeding. A few irrigation storage dams have been built and others are planned for future developments. Several large irrigation canals were completely rehabilitated in the Divide and Melrose areas.

The Soil Conservation District Supervisors, assisted by the local County Agent, have teamed up with the 4-H leaders in sponsoring annual conservation day programs. The Districts are also assisting the local FFA chapter in soils, range, and pasture management practices. In general the improvement and development of land and the conservation of the natural resources has been greatly stimulated by the work of these districts and the cooperating agencies. The conservation program in this county is gaining momentum and people are beginning to realize the urgent need for community action to conserve water, soil, and vegetation for future generations.

#### **ANACONDA STATE FISH HATCHERY**

In 1907, Mr. E. P. Mathewson, President of the Montana Fish and Game Commission and General Manager of the Anaconda Smelter, was instrumental in securing a site for construction of the Anaconda State Fish Hatchery.

On November 14, 1908, John Ryan, President of the Butte, Anaconda and Pacific Railroad, granted to the state a small tract of land of approximately four acres, together with all buildings and improvements that had been constructed on the tract. Contained in the grant was a right of way for a flume to carry water from the Anaconda Copper Mining Company flume to the hatchery site. In addition to the land and appurtenances, a water right was acquired to all the water of certain springs located in the NE $\frac{1}{4}$  of Section 4, Township 4 North, Range 11 West, appropriated by Alexander Glover in 1879. Probably the most important water right is from Warm Springs Creek, Case No. 2495, which gives the use of 90 miner's inches with no priority date. This water from Warm Springs Creek is diverted by means of a ditch to Heffner's Dam, thence by flume to the hatchery.

The first supervisor of the hatchery was Mr. C. F. Healea, but little is known of the hatchery production for the first four years. Records are available, however, that show Grayling were transplanted into Georgetown Lake in 1909. In 1912, 900,000 Eastern Brook trout were hatched and distributed and egg collection stations were started at Georgetown Lake. During this year, through the efforts of Senator Myres, 2,500,00 eggs were obtained from the United States Bureau of Fisheries. This acquisition made enlargement of the hatchery necessary, and twenty troughs were added along with a Grayling battery capable of incubating 10 million eggs. During the 1930's, through W. P. A. funds additional expansion was accomplished. In 1940 a new residence was built and in 1948 new raceways and ponds were constructed to raise larger fish. The hatchery has continued to grow the last four years, with new buildings constructed, and improvements made on all facilities.



The area for distribution for the Anaconda State Fish Hatchery is headwaters of the Clark Fork of the Columbia River drainage to Missoula and the headwaters of the Big Hole River above Dillon.

Recently a development program was initiated to increase the planting of trout in lakes and to stock streams with fish of a legal size.

## **DEER LODGE NATIONAL FOREST**

### **Anaconda District**

Deer Lodge County includes virtually all of the Anaconda Ranger District and part of the Deer Lodge Ranger District of the Deer Lodge National Forest. In addition, it includes small parts of the Wisdom and Wise River Districts of the Beaverhead National Forest in the Big Hole River drainage.

The boundaries of Deer Lodge County lie on both sides of the Continental Divide, with almost equal parts of its area drained by the Big Hole River and Clark Fork of the Columbia River. Water that drains into the Big Hole River is used extensively for irrigation in the Big Hole Valley and for the city water supply of Butte. The important drainages that flow into the Big Hole River from Deer Lodge County are Pintlar, Mudd, Fishtrap, LaMarche, Seymour and Deep Creeks.

The important drainages that flow eastward into the Clark Fork of the Columbia River are Willow, Mill, Warm Springs, and Lost creeks. The North Fork of Flint Creek, partly located in Deer Lodge County, is also a tributary of the Clark Fork of the Columbia by way of Georgetown Lake and Flint Creek. There are a few other minor drainages in the county, but they are of value only for limited irrigation in their own localities.

Warm Springs Creek with its tributaries is the most important drainage in the county from an economic standpoint. This drainage is the principal water supply for the Anaconda Copper Mining Company's smelter. It is also the city water supply for Anaconda and is used for irrigation on ranches, both above and below Anaconda. Much development work has been done on this drainage, its tributaries, and the supplemental lakes, to insure a stable water supply for the smelter. Deep wells in the vicinity of Heffner's Dam are also a part of this development.

Silver Lake, with an area of about 320 acres, located approximately 15 miles west of Anaconda is used as a reservoir for water flumed into it from Georgetown Lake. Water is pumped from this reservoir into lower Storm Lake Creek, which flows into Cable Creek and which in turn flows into Warm Springs Creek.

Georgetown Lake, about half of which is in Deer Lodge County, is an artificial lake approximately 3000 acres in area on the North Fork of Flint Creek. It is primarily a storage reservoir for the smelter; secondly, it furnishes water for the Flint Creek power station and for irrigation in Flint Creek Valley. This lake is extremely important for its recreational value and is one of the most noted fishing lakes in Montana.

Water from the wild lands on the National Forest in Deer Lodge County is the outstanding natural resource of the area, followed by wildlife, recreational opportunities, timber, and range for domestic livestock. The condition of the watersheds in the area is of prime importance both to local residents and to the people on the drainages below. The Forest Service through its administration continually strives to maintain and increase the water holding capacity of the



land. This is true not only through fire control, but by control of range use, logging, wildlife, and all other uses of the land. Forest fires destroy timber, forage, game habitat, and recreational facilities, but the principal long range effect of fires is the destruction of the water holding capacities of the forest land.

The history of land use in the Anaconda area is one of land abuse. In 1878, the original copper smelter was located in Anaconda. From that time until about 1900 fumes from the smelter killed the timber over a large area in the vicinity of Anaconda. Also, until 1916, wood was used for heating in the smelter and an enormous quantity of timber was cut for that purpose. As a consequence, an area varying from 10 to 15 miles in radius from Anaconda was virtually denuded. Further, slash fires usually followed logging so that the land was stripped of vegetation. Weeds and grasses normally came in to cover the soil where they could establish themselves. These areas were again often exploited by overgrazing by domestic livestock. Even today overgrazing is occurring in several areas. However, most of the land is now covered with vegetation and is being stabilized.

The land ownership pattern in Deer Lodge County is complicated, because of the intermingling of Anaconda Copper Mining Company and other private lands with National Forest land. The Forest Service furnishes fire protection for the Anaconda Copper Mining Company lands in the county.

The timbered areas in Deer Lodge County are largely on National Forest and Anaconda Copper Mining Company lands. The principal tree species are Lodgepole Pine and Douglas Fir. Other species of trees are Engleman Spruce, Whitebark Pine, Alpine Larch, Juniper, and Aspen.

Wildlife population are generally on the increase. This is particularly true of deer and elk. Game estimates for 1953 in Deer Lodge County are as follows: Deer, 865; Elk, 525; Mountain Goat, 150; Moose, 37. Game population on a given area must be kept under control to prevent over-population and over-use of the range.

The best method to control game population is through hunting. Hunting seasons are set by the State Fish and Game Commission, but there is close cooperation between the State, sportsmen's associations, and the federal agencies in game management. The money spent for hunting and the meat taken by hunters is of real economic benefit to the people of Deer Lodge County.

Grazing of livestock is of lesser importance than most of the other economic uses of wild land. However, approximately 1000 cattle and 5000 sheep are grazed in the county.

The development and maintenance of suitable recreational facilities on the National Forests is an important activity. The Forest Service maintains nine improved camp and picnic grounds for public use. Two others are maintained by civic organizations. In addition, there are 157 summer homes under special use permit on National Forest land and Anaconda Copper Mining Company land. Other special uses permitted on National Forest lands are for power lines, roads, water transmission projects, pastures, and boating facilities.

The aim of the Forest Service is to maintain and increase the benefits derived from wild lands. This is accomplished primarily through supervision of grazing and logging and by fire and erosion control. These activities protect the forests, wildlife habitat, livestock, recreational areas, and the water holding capacity of the forest land. The overall policy of the Forest Service is to provide for integrated use of all resources on a sustained yield basis.



# SUMMARY OF IRRIGATED LAND BY RIVER BASINS IN THE FOLLOWING COUNTIES COMPLETED TO DATE

Big Horn, Carbon, Custer, Deer Lodge, Gallatin, Golden Valley, Madison, Meagher, Musselshell, Park, Rosebud, Silver Bow, Stillwater, Sweet Grass, Treasure, Wheatland, and Yellowstone

RIVER BASIN	Present Irrigated Acres	Irrigable Acres Under Present Facilities	Maximum Irrigable Acres
<b>Missouri River Drainage Basin</b>			
*Missouri River .....	4,126	1,512	5,638
Jefferson River .....	34,735	6,388	41,123
Beaverhead River .....	7,367	1,815	9,182
Ruby River .....	33,404	4,261	37,665
Big Hole River .....	23,775	1,950	25,725
Madison River .....	39,445	7,660	47,105
Gallatin River .....	111,914	21,097	133,011
Smith River .....	30,304	18,398	48,702
Musselshell River .....	64,789	57,870	122,659
<b>Grand Total Missouri River Basin</b> .....	<b>349,859</b>	<b>120,951</b>	<b>470,810</b>
<b>Yellowstone River Drainage Basin</b>			
Yellowstone River .....	299,053	96,088	395,141
Stillwater River .....	27,489	16,403	43,892
Clarks Fork River .....	91,768	24,195	115,963
Big Horn River .....	65,395	25,579	90,974
Tongue River .....	22,137	7,479	29,616
Powder River .....	8,264	1,804	10,068
<b>Grand Total Yellowstone River Basin</b> .....	<b>514,106</b>	<b>171,548</b>	<b>685,654</b>
<b>Columbia River Drainage Basin</b>			
Clark Fork (Deer Lodge, Hellgate) River .....	15,636	1,438	17,074
<b>Grand Total Columbia River Basin</b> .....	<b>15,636</b>	<b>1,438</b>	<b>17,074</b>
<b>Grand Total in the Counties Completed to Date</b> .....	<b>879,601</b>	<b>293,937</b>	<b>1,173,538</b>

\*Names of streams indented on the lefthand margin indicate that they are tributaries of the first stream named above which is not indented.

## IRRIGATION SUMMARY OF DEER LODGE COUNTY BY RIVER BASINS

REGULAR IRRIGATION—Missouri River Basin	Present Irrigated Acres	Irrigable Acres Under Present Facilities	Maximum Irrigable Acres
*Missouri River .....	0	0	0
Jefferson River .....	0	0	0
Big Hole River .....	39	0	39
Pintlar Creek .....	1,780	235	2,015
Swamp & Springs .....	154	0	154
Seven Springs .....	98	0	98
York (Gulch) Creek .....	444	0	444
Unnamed Spring .....	39	0	39
Mudd (Williams) (Harris) Creek .....	752	366	1,118
Calvert Creek .....	85	0	85
Fishtrap Creek .....	2,881	0	2,881
Trout Creek .....	21	0	21
East Branch .....	187	0	187
Swamp Creek .....	104	0	104
La Marche Creek .....	776	22	798
Seymour Creek .....	354	0	354
Deep (Big) Creek .....	31	103	134
Seven Mile (Nine Mile) Creek .....	0	65	65
Ten Mile Creek .....	0	215	215
Slaughterhouse Creek .....	0	20	20
Corral Creek .....	0	80	80
Twelve Mile Creek .....	0	190	190
Sullivan Creek .....	175	195	370
French Gulch Creek .....	242	0	242
American (Gulch) Creek .....	70	0	70
Little America Creek .....	0	24	24
Six Mile (Keep Cool) Creek .....	20	0	20
Connors Creek .....	5	0	5
Bear (Golden) Creek .....	212	0	212
<b>Grand Total Regular Irrigation—Missouri River Basin</b> .....	<b>8,469</b>	<b>1,515</b>	<b>9,984</b>

\*Names of streams indented on the lefthand margin indicate that they are tributaries of the first stream named above which is not indented.



## IRRIGATION SUMMARY OF DEER LODGE COUNTY BY RIVER BASINS

<b>FLOOD IRRIGATION—Missouri River Basin</b>	<b>Present Irrigated Acres</b>	<b>Irrigable Acres Under Present Facilities</b>	<b>Maximum Irrigable Acres</b>
<b>Missouri River</b> .....	0	0	0
<b>Jefferson River</b> .....	0	0	0
Big Hole River .....	0	0	0
Slough .....	36	0	36
Calvert Creek .....	106	0	106
<b>Grand Total Flood Irrigation—Missouri River Basin</b> .....	<b>142</b>	<b>0</b>	<b>142</b>
<b>REGULAR IRRIGATION—Columbia River Basin</b>			
<b>Deer Lodge River (Clark Fork of the Columbia River)</b> .....	333	45	378
German (Gulch) Creek .....	133	216	349
Willow Creek .....	944	118	1,062
Seepage .....	43	0	43
Mill Creek .....	1,741	0	1,741
Two (2) Wells .....	35	37	72
Warm Springs Creek .....	1,960	72	2,032
Cable Creek .....	0	29	29
Twin Lakes Creek .....	15	2	17
Foster Creek .....	0	13	13
Springs .....	42	0	42
Springs, Ponds, Lakes .....	287	3	290
Dutchman Creek .....	544	70	614
Lost Creek .....	2,881	33	2,914
Springs .....	12	0	12
Antelope Creek .....	132	0	132
Springs .....	3	0	3
Dry Cottonwood Creek .....	32	8	40
Modesty (Gulch) Creek .....	792	111	903
Springs .....	170	20	190
Little Modesty Creek .....	185	0	185
Racetrack Creek .....	2,449	125	2,574
Pond .....	85	0	85
<b>Hell Gate River (Clark Fork of the Columbia River)</b> .....	0	0	0
Flint Creek .....	0	0	0
North Fork .....	0	0	0
Echo Lake Creek .....	14	0	14
<b>Grand Total Regular Irrigation —Columbia River Basin</b> .....	<b>12,832</b>	<b>902</b>	<b>13,734</b>



## IRRIGATION SUMMARY OF DEER LODGE COUNTY BY RIVER BASINS

<b>FLOOD IRRIGATION—Columbia River Basin</b>	<b>Present Irrigated Acres</b>	<b>Irrigable Acres Under Present Facilities</b>	<b>Maximum Irrigable Acres</b>
<b>Deer Lodge River (Clark Fork of the Columbia River)</b> .....	0	0	0
Gregson Spring Creek .....	61	0	61
Mill Creek .....	0	32	32
Whitcraft (Gulch) Creek .....	16	0	16
Warm Springs Creek .....	0	0	0
Stumptown (Stump City) Spring .....	9	20	29
Stuckey (Gulch) Creek .....	0	0	0
Springs .....	26	0	26
Nates (Icehouse Gulch) Creek .....	35	0	35
Spring .....	3	0	3
Glovers (Gulch) Creek (Sailes Gulch) Creek .....	2	3	5
Perkins (Gulch) Creek .....	17	0	17
Lost Creek .....	10	0	10
Springs .....	74	0	74
Coal (Gulch) Creek .....	0	0	0
Coal Gulch Spring .....	6	0	6
Antelope Creek .....	2	7	9
Dry Cottonwood Creek .....	15	65	80
South Fork .....	7	0	7
Unnamed Creek .....	4	0	4
Modesty (Gulch) Creek .....	8	0	8
Unnamed Branch .....	70	0	70
Little Modesty Creek .....	0	14	14
Racetrack Creek .....	0	35	35
<b>Hell Gate River (Clark Fork of the Columbia River)</b> .....	0	0	0
Flint Creek .....	0	0	0
North Fork .....	10	0	10
<b>Grand Total Flood Irrigation—Columbia River Basin</b> .....	<b>375</b>	<b>176</b>	<b>551</b>
<b>Grand Total of Regular and Flood Irrigation</b>			
(Missouri River Basin) in Deer Lodge County .....	8,611	1,515	10,126
<b>Grand Total of Regular and Flood Irrigation</b>			
(Columbia River Basin) in Deer Lodge County .....	13,207	1,078	14,285
<b>Grand Total All Irrigation in Deer Lodge County</b> .....	<b>21,818</b>	<b>2,593</b>	<b>24,411</b>

## MILL CREEK IRRIGATION COMPANY

### HISTORY

First use of the Mill Creek Ditch was by the Deer Lodge Valley Farms, a subsidiary of the A. C. M. On May 9, 1914, the Mill Creek Irrigation Company was formed to supply water to users in the area known as the Opportunity Tracts. After expiration of the corporate articles, May 9, 1934, the company filed an extension of existence for a period of 40 years, the expiration date being May 9, 1974.

### PRESENT STATISTICS

**Location:** The ditch takes out of Mill Creek in the SENE, Section 24, Township 4 North, Range 11 West; a rock filled dam diverts water into the ditch. Following a Northeasterly direction the ditch passes through Section 24, Township 4 North, Range 11 West, and Sections 19, 18, 17, and 16, Township 4 North, Range 10 West to a point where it empties into Brundy Creek, an old channel of Mill Creek, thence into Opportunity where it is distributed through the various laterals. Land irrigated is in Sections 9, 10, 11, 14, 15, 16, Township 4 North, Range 10 West.

**Length and Capacity of Canal:** The main ditch from Mill Creek to Brundy Creek is approximately  $3\frac{1}{4}$  miles long. Laterals extend another 10.4 miles or a total overall length of 13.65 miles. Three laterals are directly from Mill Creek, six laterals from Brundy Creek, two other laterals pick up water from Springs on the south side of Opportunity in Section 15.

Capacity of the ditch is sufficient to carry 500 miner's inches.

**Operation and Maintenance:** Assessments for operation and maintenance were originally set up at \$1.00 per acre, the last assessment being made in 1933. Since that date the users have voluntarily contributed labor and materials toward the upkeep of the project.

**Present Users:** A non-profit organization having capital stock of \$50,000.00 is divided into 5000 shares of a par value of \$10.00 each. Present shares of stock subscribed amount to  $633\frac{1}{2}$  shares divided among 111 users of active stock, and approximately 5 shareholders holding 369 shares of non-active stock.

**Acreage Irrigated:** In 1955, there were 479 acres irrigated under the Mill Creek Irrigation Company Ditch with no potentially irrigable land under the system.

### WATER RIGHT DATA

Only one water right is designated for Mill Creek Irrigation Company, and was decreed to Henry Brundy, in the amount of 500 miner's inches, with the priority date of 5-1-65 from Mill Creek. (Ref: Case No. 5060, recorded in Judgement Book J—Page 72, Clerk of District Court Office, Deer Lodge County, Anaconda, Montana.)

Some water shortage does occur under this system because of inadequate laterals and the neglect of individual maintenance.



# WATER RIGHT DATA — DEER LODGE COUNTY

## APPROPRIATIONS AND DECREES BY STREAMS

Stream	Appropriations (Filings of Record)			Decreed Rights			
	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.	Case No.	No. of Decrees	Miner's Inches	Cu. Ft. Per Sec.
<b>MISSOURI RIVER BASIN</b>							
Missouri River .....	0	0	0				
Jefferson River .....	0	0	0				
Big Hole River .....	1	1,000	25,000				
Pintlar Creek .....	11	5,185	129,625				
Seven Springs .....	1	300	7,500				
York (Gulch) Creek .....	2	320	8,000				
Dry (Gulch) Creek .....	1	140	3,500				
Mudd (Williams, Harris) Creek .....	19	13,820	345,500				
Springs and Seepage .....	1	300	7,500				
Toomey Spring .....	1	150	3,750				
Lockwood Creek .....	1	200	5,000				
Calvert Creek .....	1	800	20,000				
Fishtrap Creek .....	21	14,120	353,000				
Trout Creek .....	2	1,100	27,500				
North Fork .....	(See Fishtrap Creek)						
South Fork .....	(See Fishtrap Creek)						
East Branch .....	1	300	7,500				
West Fork .....	4	3,680	7,500				
Swamp Creek .....	1	100	2,500				
Waste .....	1	320	8,000				
La Marche Creek .....	8	15,460	386,500				
Brant (Gulch) Creek .....	(See La Marche Creek)						
Second Right Hand Fork .....	(See La Marche Creek)						
Mud Lake .....	1	160	4,000				
Middle Fork .....	1	600	15,000				
East Fork .....	6	2,330	58,250				
Willow Creek .....	1	400	10,000				
Seymour Creek .....	13	9,520	238,000				
Deep (Big) Creek .....	15	13,110	327,750				
East Branch .....	(See Big (Deep) Creek)						
Left Hand Fork .....	(See Big (Deep) Creek)						
Middle Fork .....	(See Big (Deep) Creek)						
Right Hand Fork .....	(See Big (Deep) Creek)						
Unnamed Creek .....	(See Big (Deep) Creek)						
West Branch .....	(See Big (Deep) Creek)						
Seven Mile (Nine Mile) Creek .....	4	2,750	68,750				
Ten Mile Creek .....	3	3,944	98,600				
Slaughterhouse Creek .....	1	3,944	98,600				

**WATER RIGHT DATA — DEER LODGE COUNTY**  
**APPROPRIATIONS AND DECREES BY STREAMS**

Stream	Appropriations (Filings of Record)			Decreed Rights			
	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.	Case No.	No. of Inches	Miner's Inches	Cu. Ft. Per Sec.
Timothy Creek .....	2	700	17.500				
Corral Creek .....	1	200	5.000				
East Branch .....	1	100	2.500				
Unnamed Creek .....	1	300	7.500				
White Creek .....	1	500	12.500				
Twelve Mile Creek .....	2	1,200	30.000				
West Branch .....	1	300	7.500				
Sullivan Creek .....	9	4,180	104.500				
Tessier Creek .....	1	—	—				
French Gulch Creek .....	4	700	17.500				
California Creek .....	9	2,550	63.750				
North East Fork .....	1	150	3.750				
North & Middle Forks .....	1	80	2.000				
Unnamed Spring .....	1	160	4.000				
Oregon Gulch .....	1	—	—				
American (Gulch) Creek .....	7	720	18.000				
Six Mile (Keep Cool) Creek .....	7	3,925	98.125				
Julius Creek .....	1	120	3.000				
First Chance (Gulch) Creek .....	4	1,100	27.500				
Moose Creek .....	9	1,840	46.000				
Lincoln Creek .....	2	800	20.000				
Connors Creek .....	1	60	1.500				
Bear (Golden) Creek .....	8	5,000	125.000				
<b>TOTAL .....</b>	<b>197</b>	<b>115,194</b>	<b>2879.850</b>				



# WATER RIGHT DATA — DEER LODGE COUNTY

## APPROPRIATIONS AND DECREES BY STREAMS

Streams	Appropriations (Filings of Record)			Decreed Rights			Cu. Ft. Per Sec.
	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.	Case No.	No. of Decrees	Miner's Inches	
<b>COLUMBIA RIVER BASIN</b>							
<b>Deer Lodge River (Clark Fork of Columbia River)</b>	12	9,750	243.750	143	21	1,860	46.500
German (Gulch) Creek	3	2,020	50.500				
Silver Bow Creek	2	700	17.500				
White Pine Creek	1	200	5.000				
Gregson Spring Creek	1	100	2.500				
Gregson Hot Springs	1	200	5.000				
Johnson (Tremblay, Nor- degian) Creek	1	100	2.500				
Flint Creek	0	0	0				
Hensley (Gulch) Creek	1	20	.500				
Bernard (Gulch) Creek	1	100	2.500				
Willow Creek	13	6,700	167.500				
First Right Hand Branch		(See Mill Creek)					
Morses Fork		(See Mill Creek)					
Rouse Creek	1	50	1.250				
Unnamed Springs	2	20	.500				
Mill Creek	28	30,098	752.450	5060	28	9,149	228.725
Middle Fork		(See Willow Creek)					
South Fork		(See Willow Creek)					
Birmingham Creek	4	900	22.500				
Joiner Creek	1	200	5.000	5060		(See Mill Creek)	
Clear Creek	9	7,000	175.000	5060		(See Mill Creek)	
Silver Creek	1	40	1.000				
Parker's Canyon Creek	1	300	7.500				
Unnamed Springs	3	155	3.875				
Swamp Creek	1	200	5.000	5060		(See Mill Creek)	
Perdee Creek	1	100	2.500				
Slough or Swamp	1	All	—				
Unnamed Spring	1	40	1.000				
Whitcraft (Gulch) Creek	1	All	—				
Unnamed Creek	2	300	7.500				
Cook's Creek	1	75	1.875				
Warm Springs Creek	78	144,514	3,612.850	2495	72	25,008	625.200
Middle Fork		(See Warm Springs Creek)					
South Branch		(See Warm Springs Creek)					
West Fork		(See Warm Springs Creek)					
Cable Creek	3	6,200	155.000				
North Branch	1	200	5.000				
Northwest Fork	0	0	0				
Stoner Spring	1	300	7.500				
Unnamed Spring	1	All	—				



# WATER RIGHT DATA — DEER LODGE COUNTY

## APPROPRIATIONS AND DECREES BY STREAMS

Streams	Appropriations (Filings of Record)			Decreed Rights			
	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.	Case No.	No. of Decrees	Miner's Inches	Cu. Ft. Per Sec.
Storm Lake (Arastra)							
Creek .....	9	25,900	647.500	2495	(See Warm Springs Cr.)		
Storm Lake .....	6	15,800	395.000	2495	(See Warm Springs Cr.)		
Lagger's (Gulch) Creek .....	1	120	3.000				
Twin Lakes Creek .....	12	46,100	1,152.500	2495	(See Warm Springs Cr.)		
Twin Lakes .....	8	18,400	460.000	2495	(See Warm Springs Cr.)		
E. Fork Twin Lakes Creek .....	2	5,000	125.000				
Four Mile Creek .....	3	24,100	602.500				
Davis Lake .....	3	8,000	200.000				
Lower Four Lake .....	1	3,000	75.000				
Nelson (Gulch) Creek .....	1	1,000	25.000				
Foster Creek .....	4	6,300	157.500				
East Fork .....	2	100	2.500				
Johnson (Gulch) Creek .....	1	500	12.500				
Barker Creek .....	7	13,500	337.500				
East Fork .....	1	2,000	50.000				
Lake Crown .....	1	2,400	60.000				
Lake Foyle .....	1	1,700	42.500				
Lake Hope .....	1	1,200	30.000				
Summit Lake .....	3	5,000	125.000				
West Fork .....	3	5,500	137.500				
Oleson (Gulch) Creek .....	7	630	15.750				
East Fork (Buck Gulch Creek) .....	1	All	—				
Unnamed Springs .....	4	4,212	105.300				
Unnamed Creek .....	2	400	10.000				
Jordan Spring .....	1	300	7.500				
Unnamed Springs .....	3	720	18.000				
Boomerang (Gulch) Creek .....	6	330	8.250				
East Fork .....	0	0	0				
Unnamed Spring .....	1	5	.125				
Springs, Ponds & Lakes .....	1	500	12.500	2495	(See Warm Springs Cr.)		
Josephine Spring .....	1	40	1.000				
Stumptown (Stump City) Spring .....	2	120	3.000				
Haggin Creek (Spring Gulch Creek) .....	4	900	22.500				
East Fork .....	1	200	5.000				
West Fork .....	1	300	7.500				
Haggin Lake .....	3	86,000	2,150.000				
Stuckey (Gulch) Creek .....	1	All	—	2495	(See Warm Springs Cr.)		
Dry (Gulch) Creek .....	0	0	0				
Unnamed Springs .....	2	140	3.500				
Unnamed Springs .....	3	10	.250				

# WATER RIGHT DATA — DEER LODGE COUNTY

## APPROPRIATIONS AND DECREES BY STREAMS

Streams	Appropriations (Filings of Record)			Decreed Rights			
	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.	Case No.	No. of Decrees	Miner's Inches	Cu. Ft. Per Sec.
Unnamed Creek .....	1	40	1.000				
Levengood (Gulch) Creek .....	3	155	3.875	2495	(See Warm Springs Cr.)		
Unnamed Spring .....	1	40	1.000				
Unnamed Spring .....	1	50	1.250				
English Gulch (Shepherd) Creek .....	0	0	0				
Unnamed Springs .....	3	760	19.000				
Nates (Ice House) Gulch Creek .....	1	500	12.500	2495	(See Warm Springs Cr.)		
Three Lakes .....	1	All	—				
Unnamed Spring .....	1	50	1.250				
Hearst (Gray's Gulch) Creek .....	2	1,600	40.000	2495	(See Warm Springs Cr.)		
Hearst Lake .....	2	5,000	125.000	2495	(See Warm Springs Cr.)		
Lake Baldy .....	1	All	—				
Unnamed Springs .....	2	920	23.000				
Fifer Gulch (Martha) Creek .....	3	800	20.000	2495	(See Warm Springs Cr.)		
Glover's Gulch (Sailles) Creek .....	2	140	3.500	2495	(See Warm Springs Cr.)		
Sheep (Gulch) Creek .....	9	630	15.750				
Silver Spring .....	1	All	—				
Unnamed Spring .....	1	100	2.500				
Dry (Gulch) Creek .....	0	0	0				
Two Springs .....	1	100	2.500				
Birch Street (Gulch) Creek .....	1	All	—				
Sewage & Waste .....	6	9,280	232.000				
Unnamed Spring .....	1	16	.400				
Unnamed (Gulch) Creek .....	1	5	.125				
Unnamed (Gulch) Creek .....	1	6	.150				
Slaughterhouse (Gulch) Creek .....	0	0	0				
Unnamed Springs .....	1	All	—				
Golden Spring .....	1	40	1.000				
Sheep Camp Creek (Girard Gulch Creek) .....	3	650	16.250				
Perkins (Gulch) Creek .....	2	40	1.000				
East Branch .....	1	120	3.000				
North Fork .....	2	280	7.000				
Dutchman Creek .....	4	2,620	65.500	2495	(See Warm Springs Cr.)		
Waste .....	1	500	12.500				
Lansing Slough .....	1	280	7.000				
Sand Creek .....	0	0	0				
North Fork .....	1	120	3.000				



# WATER RIGHT DATA — DEER LODGE COUNTY

## APPROPRIATIONS AND DECREES BY STREAMS

Streams	Appropriations (Filings of Record)			Decreed Rights			
	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.	Case No.	No. of Decrees	Miner's Inches	Cu. Ft. Per Sec.
South Fork .....	1	120	3.000				
Berryman's Spring .....	1	40	1.000				
Lost Creek .....	34	26,656	666.400	1982	40	9,083.995	227.099875
Lost Creek Lake .....	2	160	4.000				
Landry Bessette Spring .....	1	20	.500				
Unnamed Creek & Spring .....	1	150	3.750				
Hatter's (Gulch) Creek .....	0	0	0				
Unnamed Spring .....	2	260	6.500				
Timber (Gulch) Creek .....	3	300	7.500	4099	(See Antelope Creek)		
Unnamed Spring .....	1	160	4.000				
Unnamed Springs .....	6	600	15.000				
Coal (Gulch) Creek .....	0	0	0				
Coal Gulch Spring .....	1	36	.900				
Sheep Gulch (Hoodoo) Creek .....	1	80	2.000				
Unnamed Spring .....	1	40	1.000				
Antelope Creek .....	3	2,060	51.500	4099	5	173	4.325
Unnamed Springs .....	2	40	1.000				
Spring (Gulch) Creek .....	5	8,470	211.750				
Prairie (Gulch) Creek .....	4	2,600	65.000				
Buck's (Gulch) Creek .....	0	0	0				
Unnamed Spring .....	1	100	2.500				
Unnamed Springs .....	7	290	7.250				
Swamp .....	1	20	.500				
Unnamed Springs .....	3	370	9.250				
Unnamed (Gulch) Creek .....	0	0	0				
Liffing Spring .....	1	160	4.000				
Dry Cottonwood Creek .....	10	14,884	372.100				
Fork of Dry Cottonwood Creek .....	(See Dry Cottonwood Cr.)						
North Fork .....	4	2,020	50.500				
South Fork .....	1	200	5.000				
Unnamed Creek .....	1	200	5.000				
Sink (Skidoo) Creek .....	2	200	5.000				
Modesty (Gulch) Creek .....	3	0	0	5048	4	All	—
Unnamed Springs .....	1	All	—				
West Fork (Gibson Creek, Spring Gulch Creek) .....	1	80	2.000				
Unnamed Spring .....	1	1,000	25.000				
Wolf (Gulch) Creek .....	0	0	0				
Wolf Gulch Spring .....	1	40	1.000				
Calf Gulch (Dick's) Creek .....	1	50	1.250				
Unnamed Springs .....	5	95	2.375				

# **WATER RIGHT DATA — DEER LODGE COUNTY** **APPROPRIATIONS AND DECREES BY STREAMS**

	Appropriations (Filings of Record)			Decreed Rights			
	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.	Case No.	No. of Decrees	Miner's Inches	Cu. Ft. Per Sec.
Unnamed Springs .....	4	270	6.750	4203	2	310	7.750
Waste .....	2	400	10.000				
Little Modesty Creek .....	1	320	8.000	4220	3	225	5.625
Unnamed Springs .....	2	200	5.000				
Waste .....	1	100	2.500				
Sand Hollow Creek .....	1	200	5.000				
Slaughterhouse Creek .....	1	120	3.000				
Race Track Creek .....	22	93,465	2,336.625	2749	17	3,823.17	95.579250
Mud Lake .....	1	160	4.000				
Unnamed Springs .....	1	50	1.250				
Race Track Lake .....	3	1,600	40.000	2749	1	192.4 ac. ft.	
Goat Mountain (Jones) Lake .....	1	120	3.000	2749	1	225.8 ac. ft.	
North Fork & Large Lake .....	2	6,000	150.000				
North Fork & Small Lake .....	1	3,000	75.000				
Pozega (Deep) Lake No. 1 .....	1	1,200	30.000	2749	1	376 ac. ft.	
Pozega Lake No. 2 .....	0	0	0	2749	1	37.5 ac. ft.	
Bowman (Three) Lakes .....	2	360	9.000				
Left Fork .....	1	1,000	25.000				
Lake above Thornton Lake .....	1	100	2.500				
Thornton Lake .....	3	1,000	25.000	2749	1	179.4 ac. ft.	
Oro Fino (Gulch) Creek .....	10	2,950	73.750				
Unnamed Springs .....	2	100	2.500				
Mountain View Spring .....	1	50	1.250				
Hell Gate River (Clark Fork of Columbia) .....	0	0	0				
Flint Creek .....	0	0	0				
Silver Lake .....	5	10,600	265.000				
Daly's (Gulch) Creek .....	1	16	.400				
East Fork .....	1	25	.625				
Unnamed Springs .....	2	107	2.675				
Young Ireland (Gulch) Creek .....	1	16	.400				
Georgetown Lake .....	0	0	0				
Blodgett (Dry) Creek .....	1	80	2.000				
Silver Hill (Lost) Creek .....	4	2,100	52.500				
Mill Spring (Stewart) Creek .....	2	1,600	40.000				
Stewart Mill (Stewart's) Spring .....	2	1,750	43.750				
Willow Spring .....	1	4	.100				
North Fork .....	0	0	0				
Echo Lake Creek .....	1	50	1.250				
Hazel Spring .....	1	10	.250	2656	1	All	
Unnamed Springs .....	4	900	22.500				
TOTAL .....	558	707,375	17,684.375	198	49,632.165	1240.804125	

NOTE: Race Track Creek is located in both Deer Lodge and Powell Counties. The number of decrees listed on Race Track Creek pertain to Deer Lodge County only.



**WATER RIGHT DATA—DEER LODGE COUNTY**  
**APPROPRIATIONS AND DECREES BY STREAMS**

Streams	No. of Filings	Miner's Inches	Cu. Ft. Per Sec.
<b>Drainages Not Located in Deer Lodge County.</b>			
Clarden Creek .....	1 .....	300 .....	7.500
Cold Spring .....	1 .....	100 .....	2.500
Dutch Creek .....	1 .....	520 .....	13.000
Elk Creek .....	1 .....	400 .....	10.000
Hane Creek .....	1 .....	100 .....	2.500
Hinze Spring .....	1 .....	100 .....	2.500
Lake Brown .....	1 .....	3,000 .....	75.000
Lake Donohoe .....	2 .....	5,000 .....	125.000
Lake Fish .....	2 .....	6,000 .....	150.000
Lake George .....	2 .....	5,000 .....	125.000
Lake Margaret .....	2 .....	5,000 .....	125.000
Lake McGroarty .....	1 .....	2,000 .....	50.000
Lake Senora .....	2 .....	4,000 .....	100.000
Lake Surprise .....	1 .....	700 .....	17.500
McGroarty Spring & Creek .....	1 .....	1,000 .....	25.000
Morrison Spring .....	1 .....	All .....	—
North Fork Creek .....	1 .....	120 .....	3.000
Old Man Creek .....	1 .....	— .....	—
Ontario Spring .....	1 .....	300 .....	7.500
Unnamed Creeks .....	5 .....	134 .....	3.350
Unnamed Lake .....	1 .....	4,320 .....	108.000
Unnamed Springs .....	5 .....	1,190 .....	29.750
Walsh Creek .....	1 .....	— .....	—
<b>TOTAL .....</b>	<b>36 .....</b>	<b>39,284 .....</b>	<b>982.100</b>



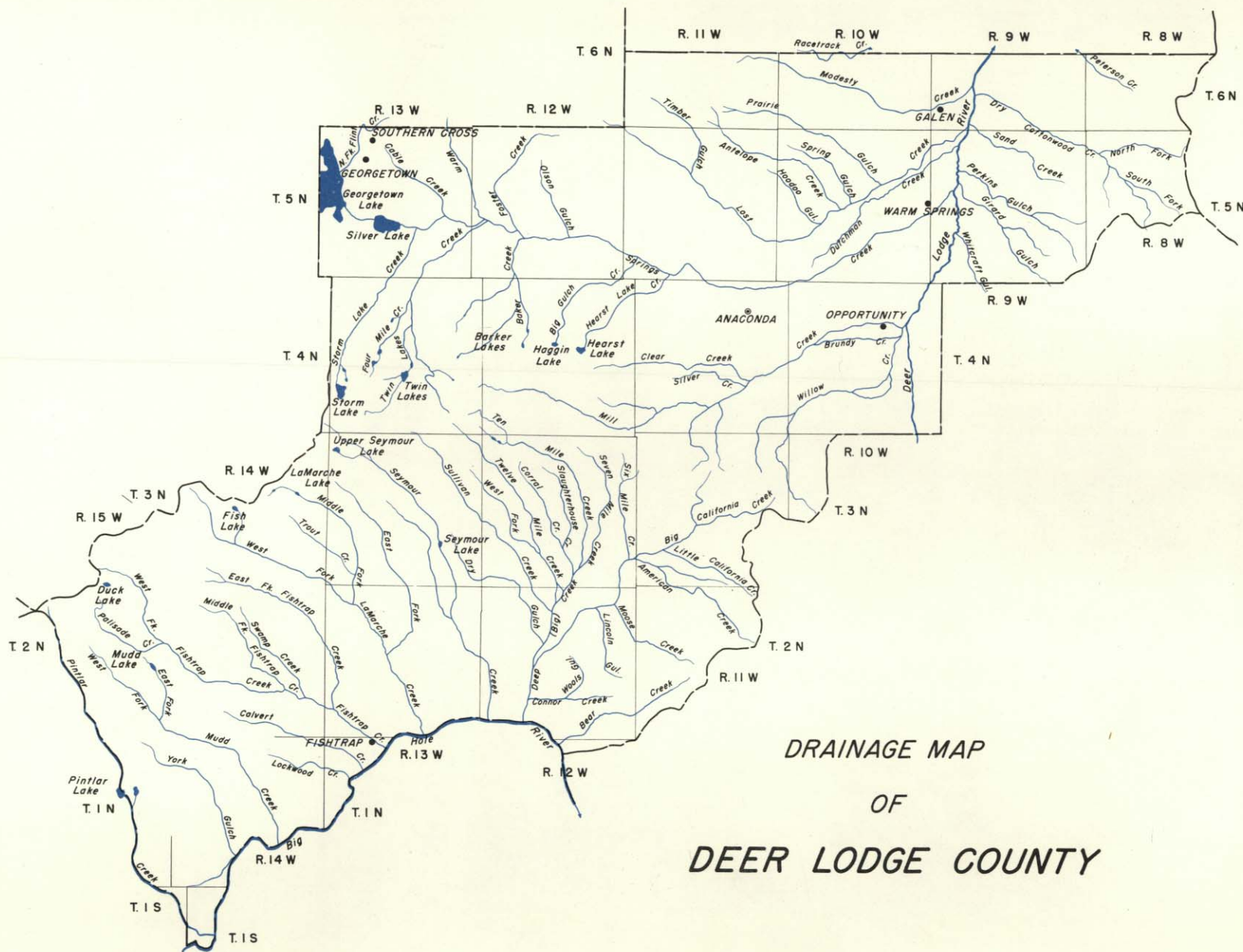
# WATER RESOURCES SURVEY

Deer Lodge County, Montana

Part II

Maps Showing Irrigated Areas

Published by  
STATE ENGINEER'S OFFICE  
Helena, Montana  
June, 1955



DRAINAGE MAP  
OF  
DEER LODGE COUNTY

## MAP INDEX




Township	Range	Page
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1 North	13 West .....	2
1 North	14 West .....	3
1 North	15 West .....	3
2 North	12 West .....	1
2 North	13 West .....	4
2 North	14 West .....	5
3 North	12 West .....	6
4 North	10 West .....	7
4 North	11 West .....	8
5 North	8 West .....	9
5 North	9 West .....	10
5 North	10 West .....	11
5 North	11 West .....	12
5 North	12 West .....	13
5 North	13 West .....	14
6 North	9 West .....	15
6 North	10 West .....	16
6 North	11 West .....	17
1 South	14 West .....	18
1 South	15 West .....	18

# MAP SYMBOL INDEX













## BOUNDARIES

- COUNTY LINE
- NATIONAL FOREST LINE

## DITCHES

-  CANALS OR DITCHES
-  DRAIN DITCHES
-  PROPOSED DITCHES

## STRUCTURES & UNITS

-  DAM
-  DIKE
-  FLUME
-  SIPHON
-  SPILL
-  SPRINKLER SYSTEM
-  WEIR
-  PIPE LINE
-  PUMP
-  PUMP SITE
-  RESERVOIR
-  WELL
- +++ NATURAL CARRIER USED AS DITCH

## TRANSPORTATION

-  PAVED ROADS
-  UNPAVED ROADS
-  RAILROADS
-  STATE HIGHWAY
-  U. S. HIGHWAY
-  AIRPORT
-  SPRING
-  SWAMP
-  GAUGING STATION
-  POWER PLANT
-  STORAGE TANK
-  CEMETERY
-  FAIRGROUND
-  FARM OR RANCH UNIT
-  LOOKOUT STATION
-  RANGER STATION
-  RAILROAD TUNNEL
-  SCHOOL
-  SHAFT, MINE, OR DRIFT



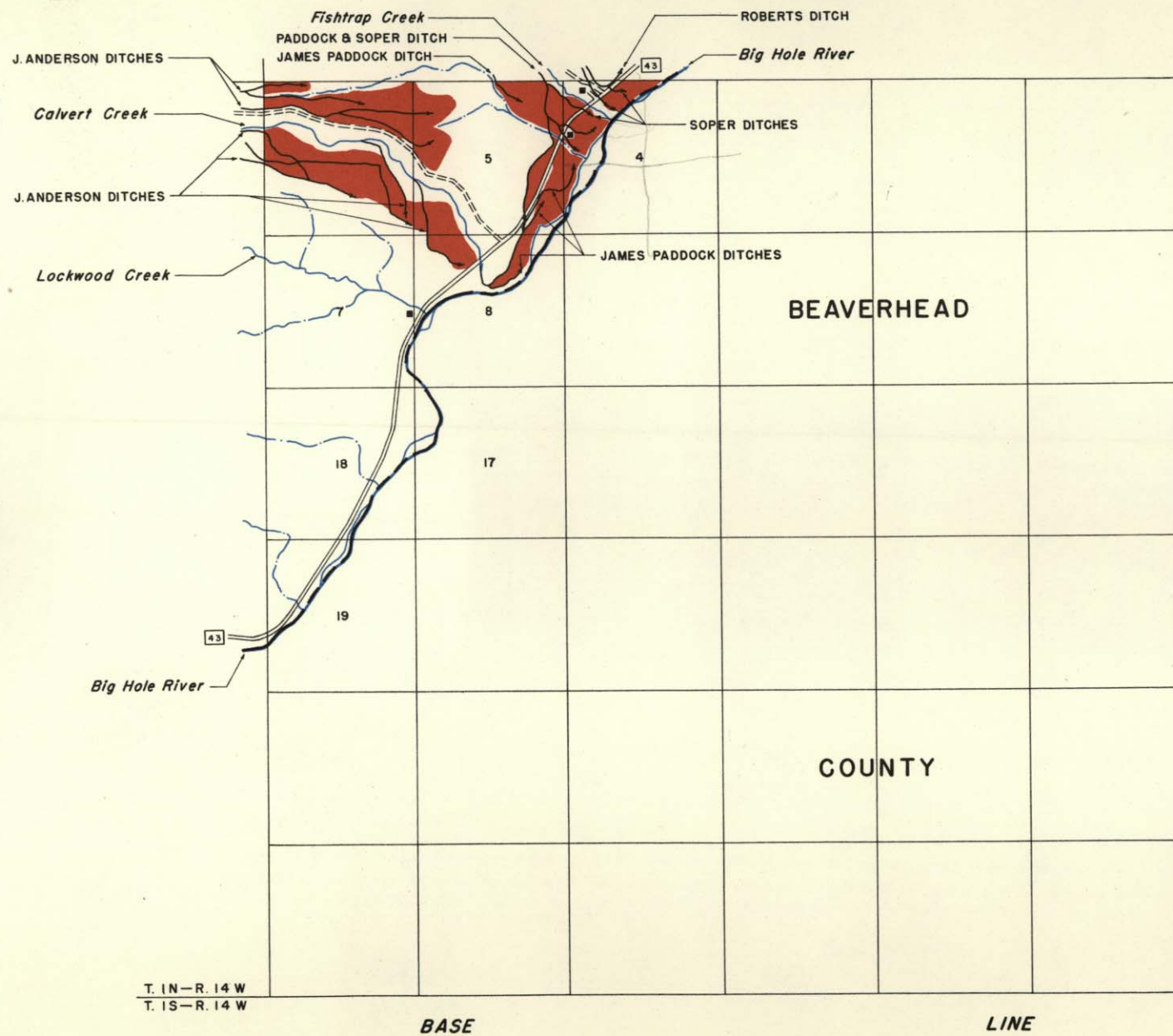
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11



Twp. 1 NORTH  
Rge. 13 WEST

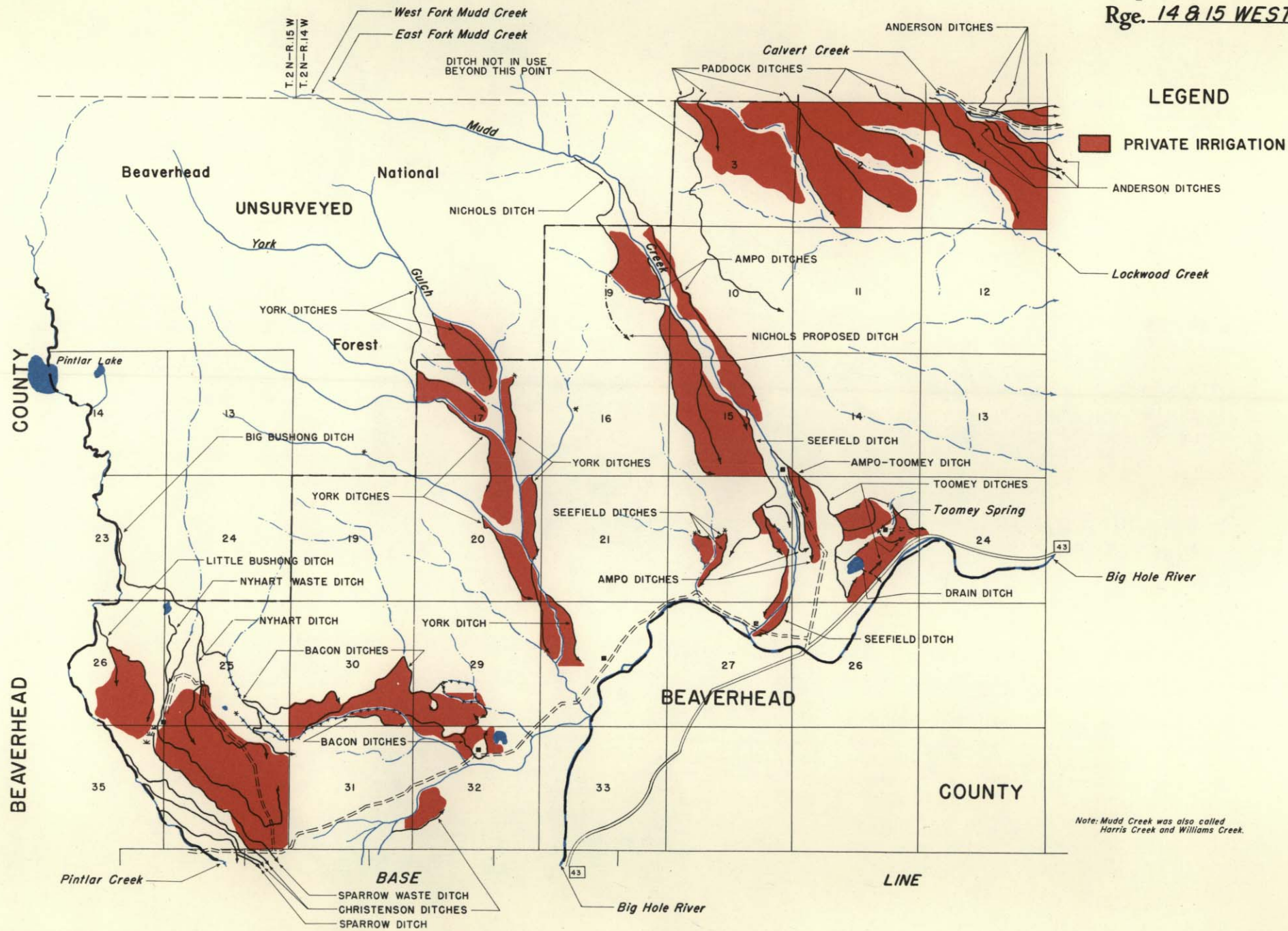


LEGEND

PRIVATE IRRIGATION

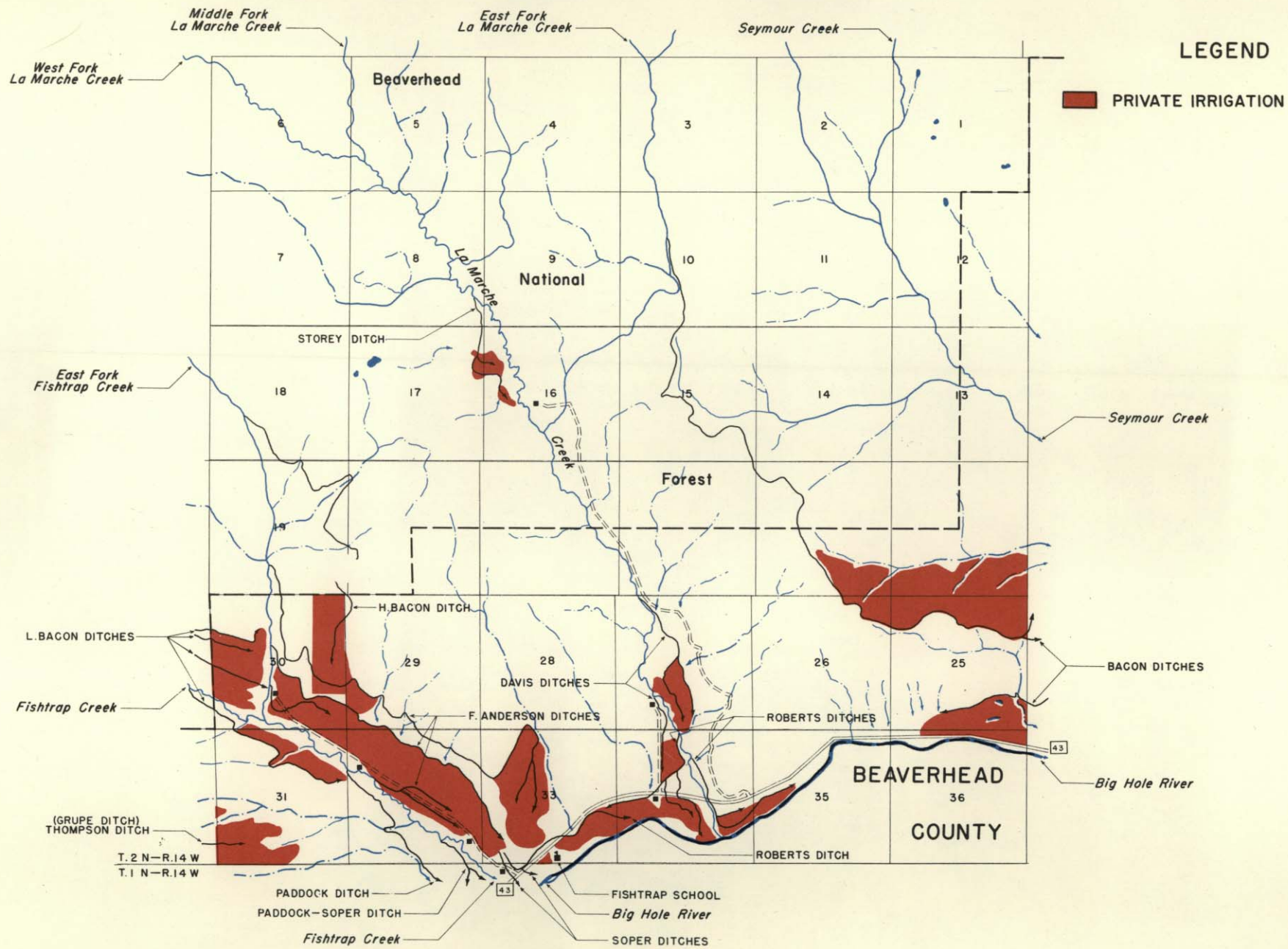


Twp. 1 NORTH  
Rge. 14 & 15 WEST



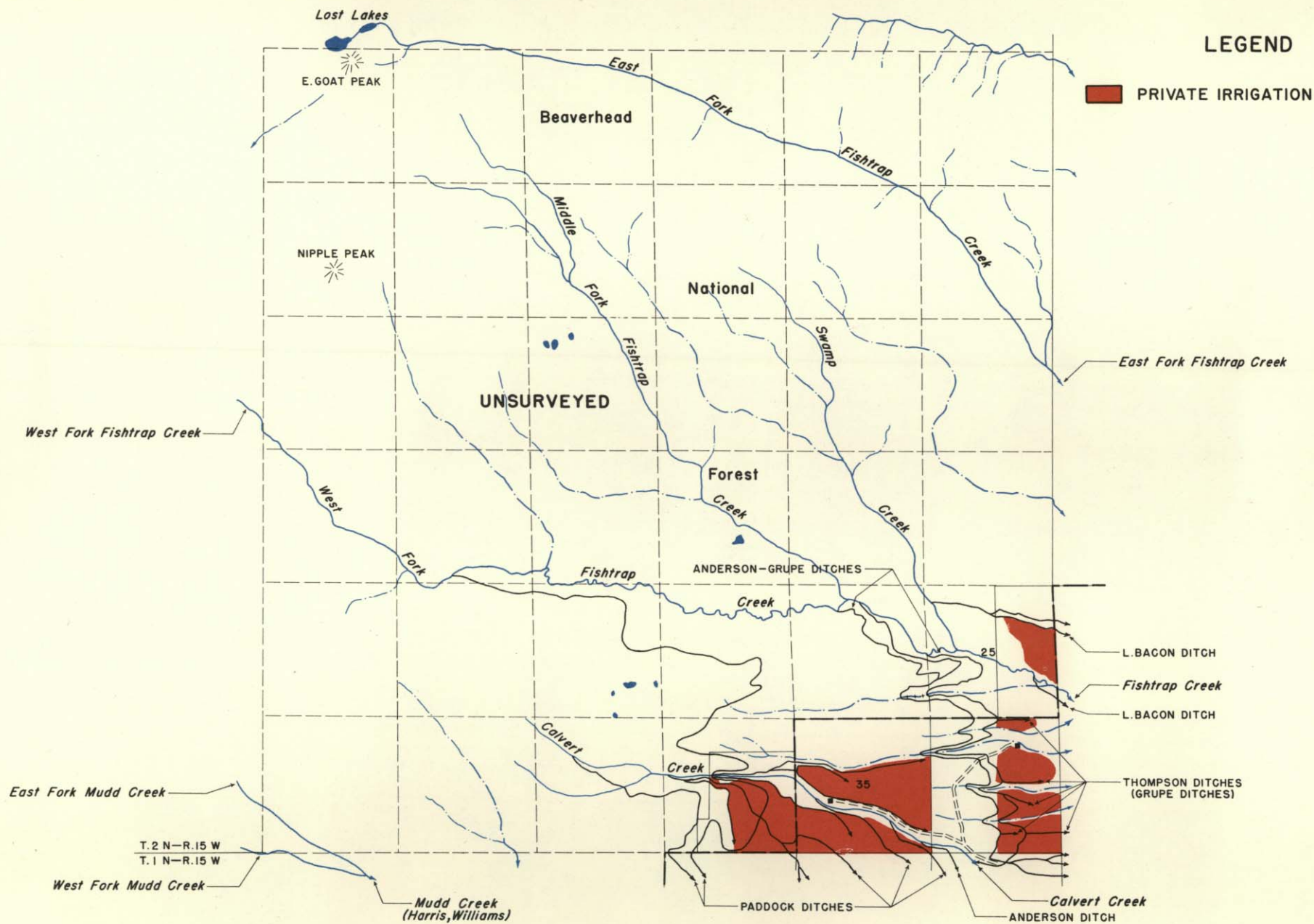
Note: Mudd Creek was also called Harris Creek and Williams Creek.

Twp. 2 NORTH  
Rge. 13 WEST

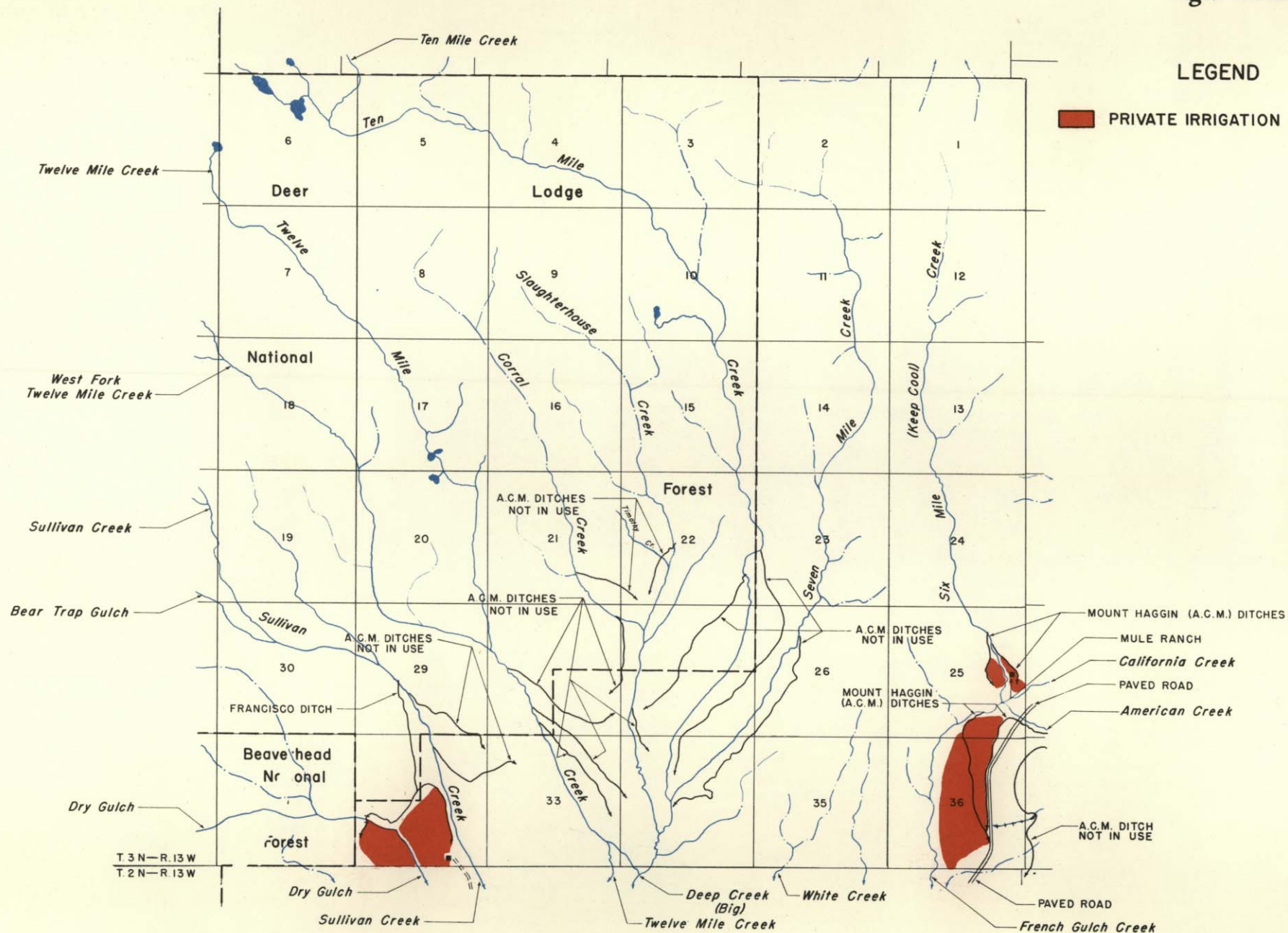




Twp. 2 NORTH  
Rge. 14 WEST

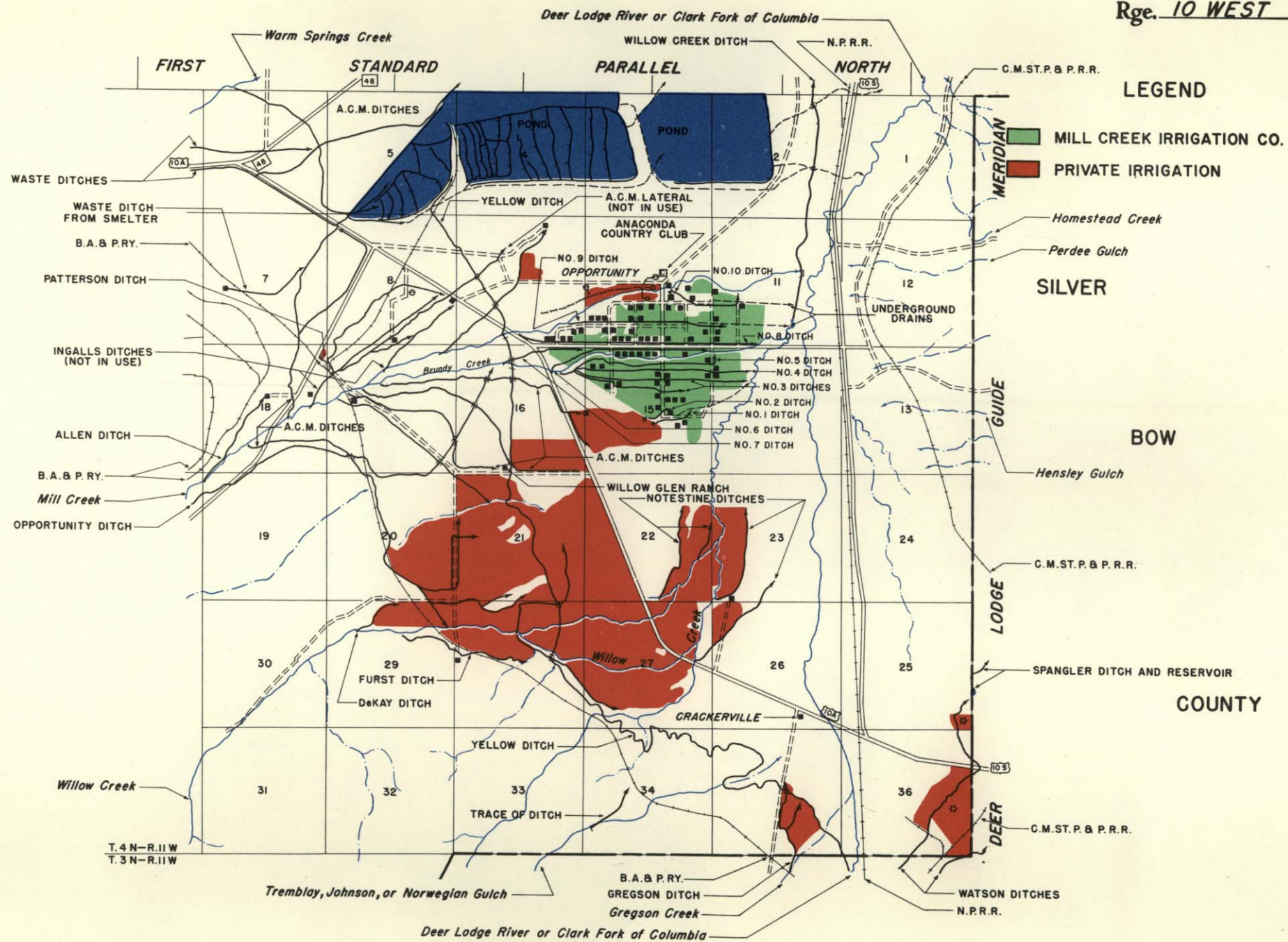


Twp. 3 NORTH  
Rge. 12 WEST

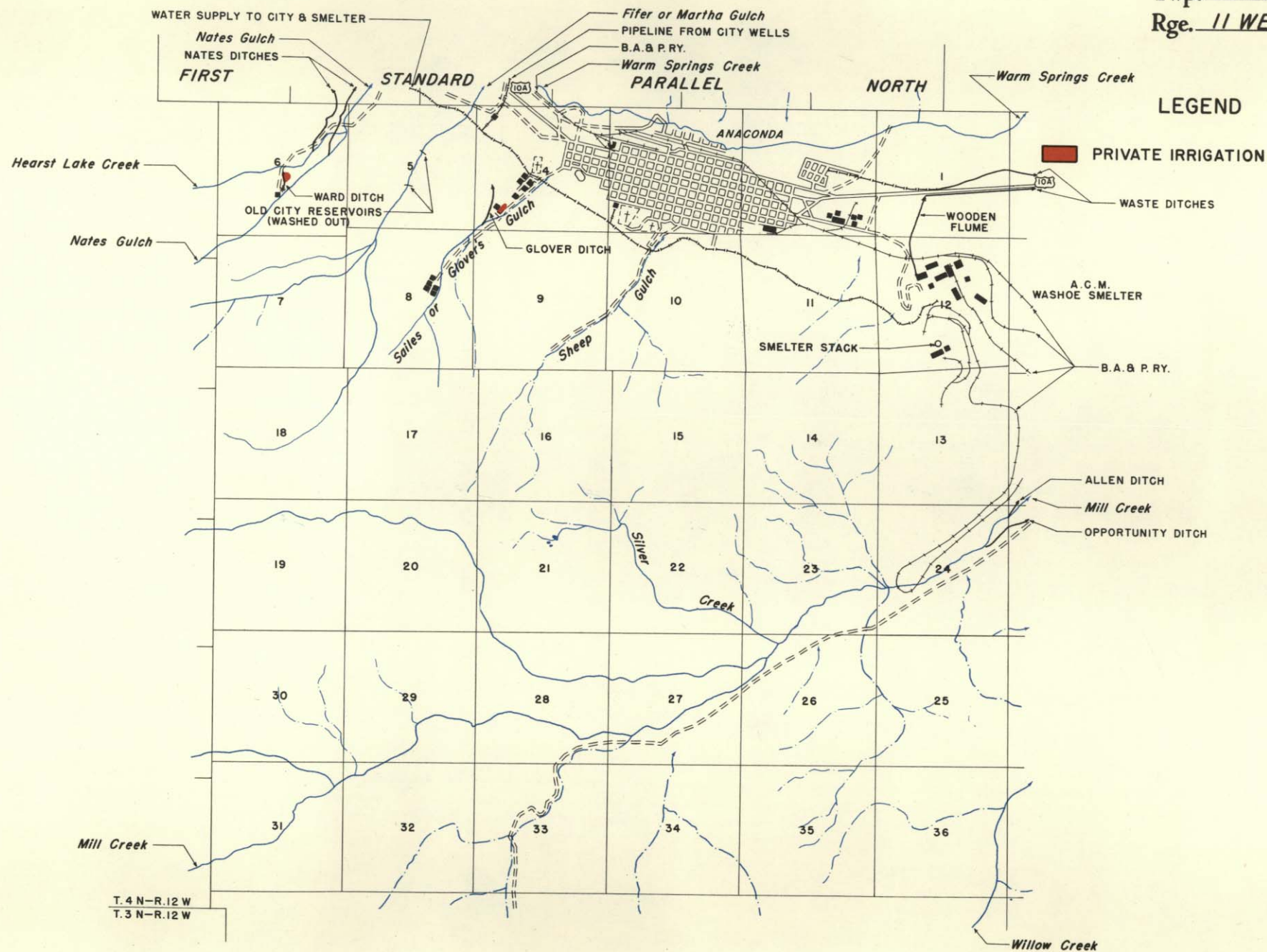




Twp. 4 NORTH  
Rge. 10 WEST



Twp. 4 NORTH  
Rge. 11 WEST

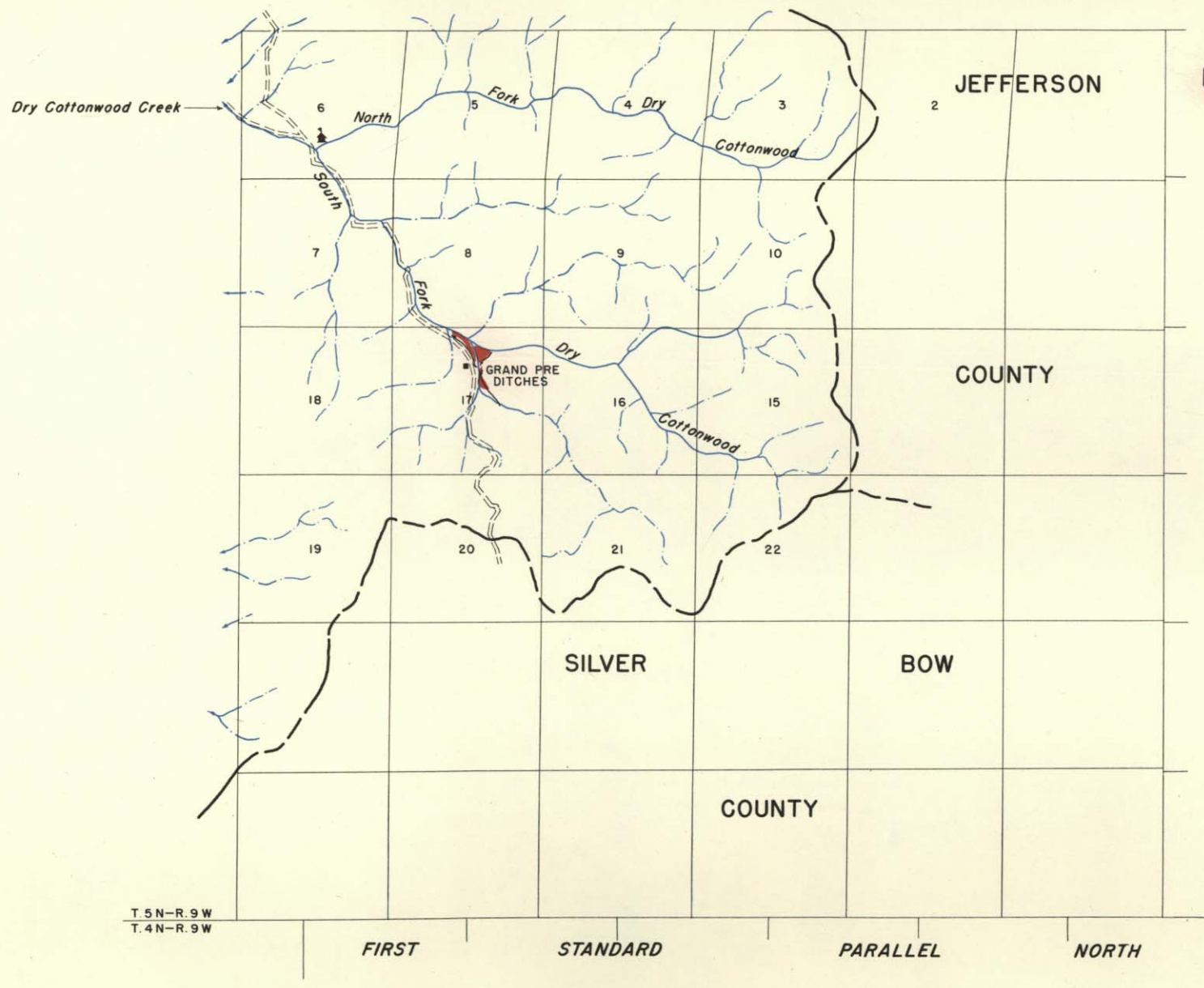




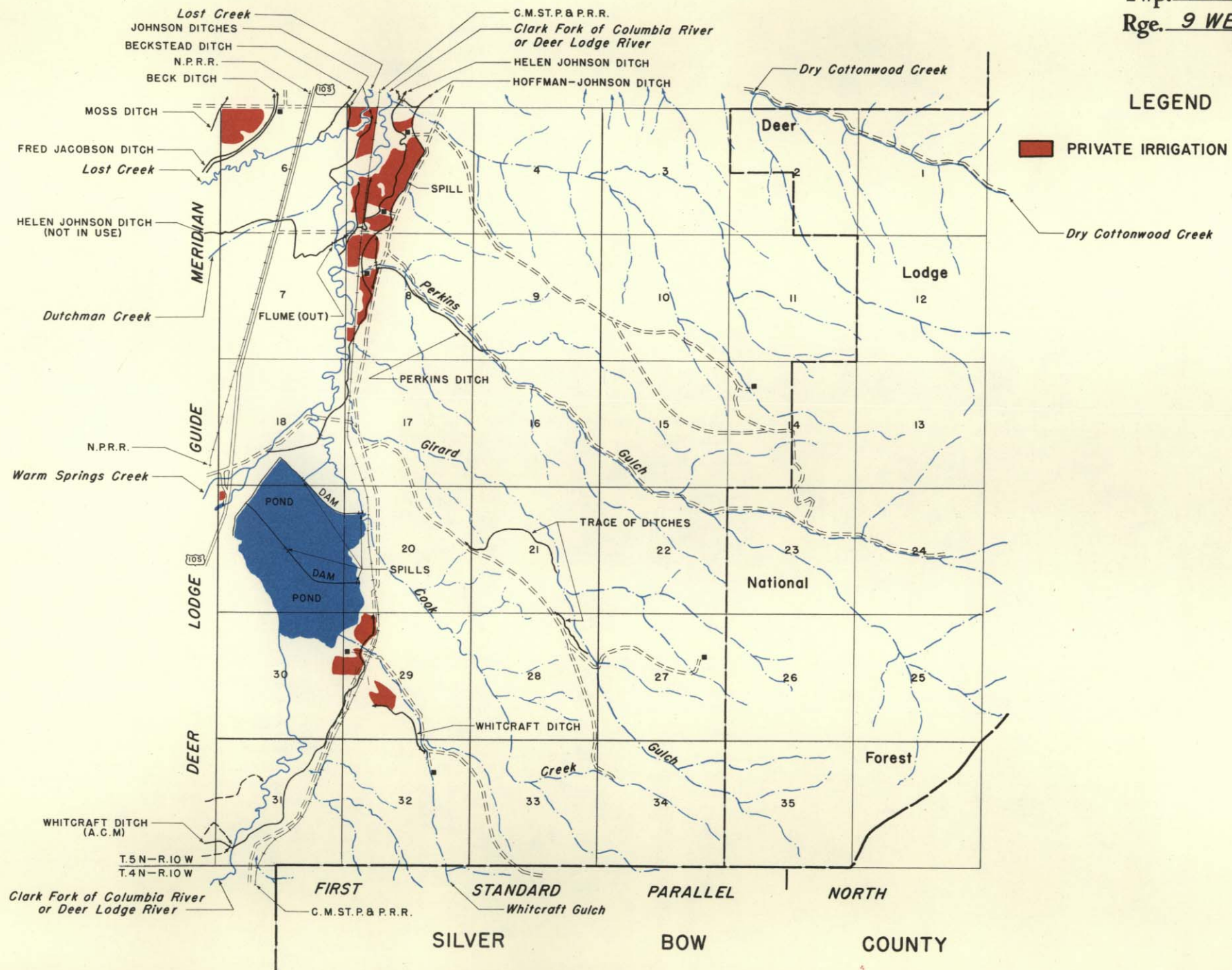
Twp. 5 NORTH  
Rge. 8 WEST

LEGEND

 PRIVATE IRRIGATION



Twp. 5 NORTH  
Rge. 9 WEST





Twp. 5 NORTH  
Rge. 10 WEST

# LEGEND

PRIVATE IRRIGATION

FRED JACOBSON DITCH  
BECK DITCH  
*Lost Creek*  
JONES RESERVOIR  
HELEN JOHNSON DITCH  
(NOT IN USE)  
*Dutchman Creek*

N.P.R.R.

*Warm Springs Creek*

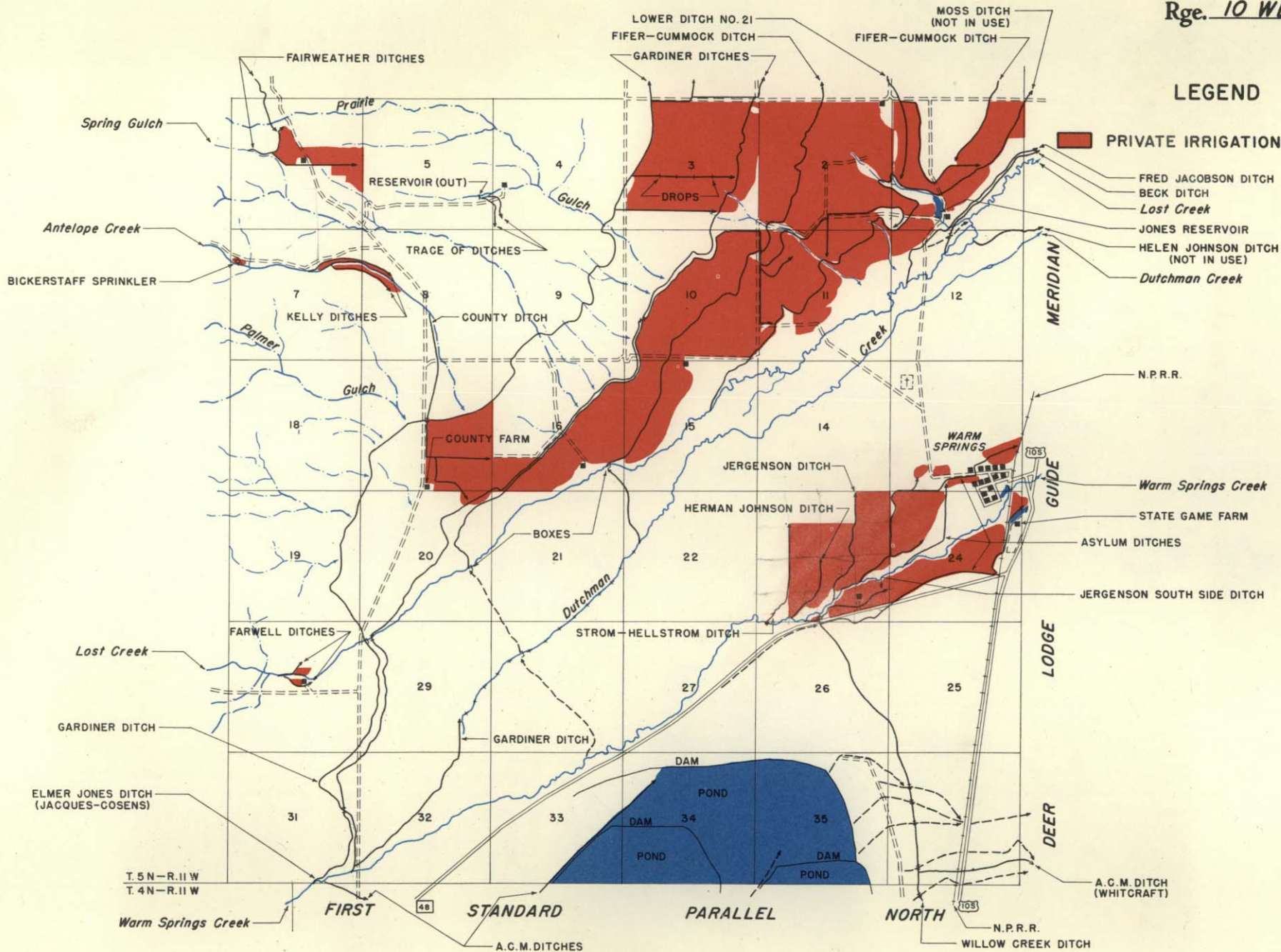
STATE GAME FARM

ASYLUM DITCHES

JERGENSEN SOUTH SIDE DITCH

A.C.M. DITCH  
(WHITCRAFT)

WILLOW CREEK DITCH

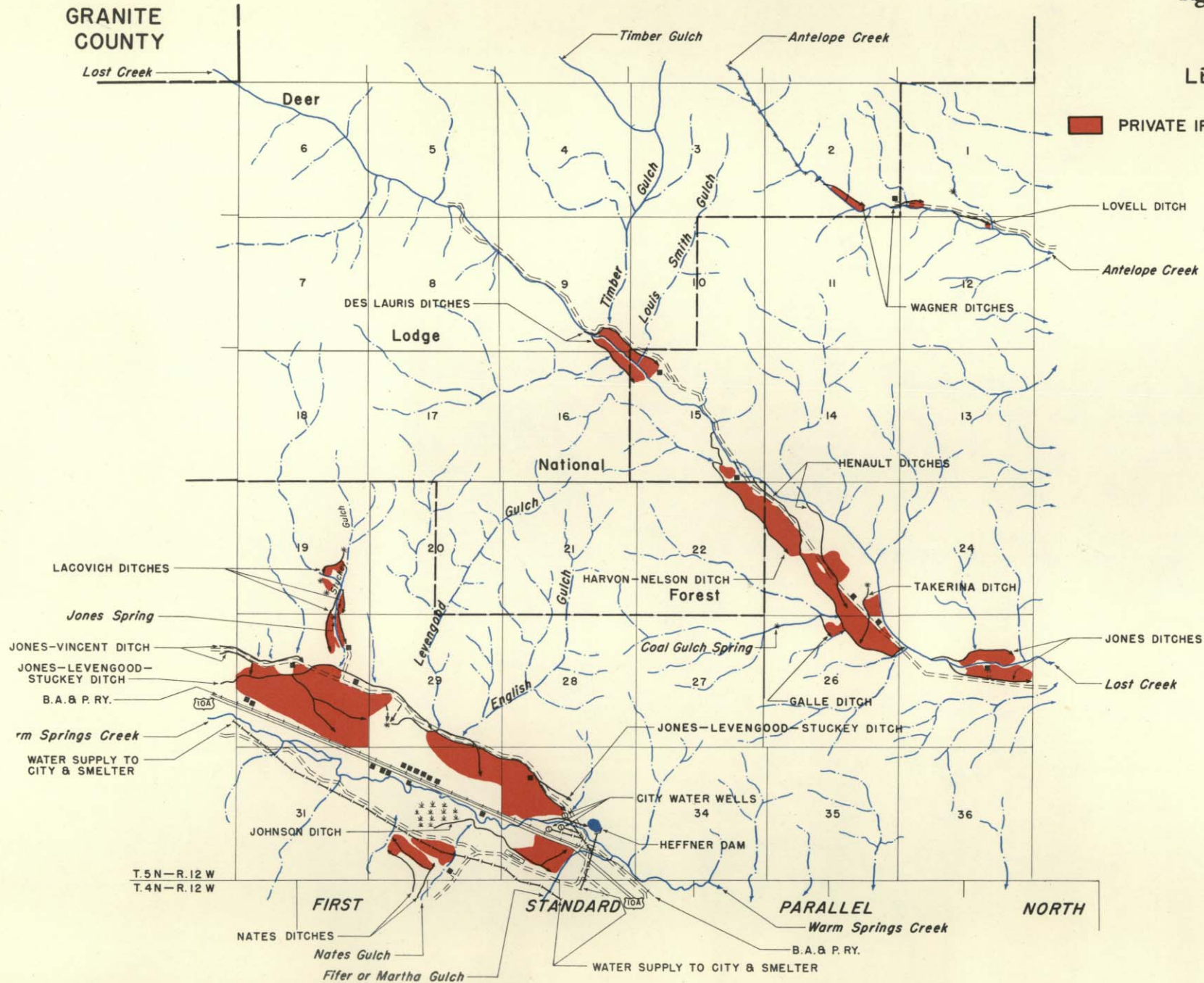


Twp. 5 NORTH  
Rge. 11 WEST

GRANITE  
COUNTY

LEGEND

PRIVATE IRRIGATION





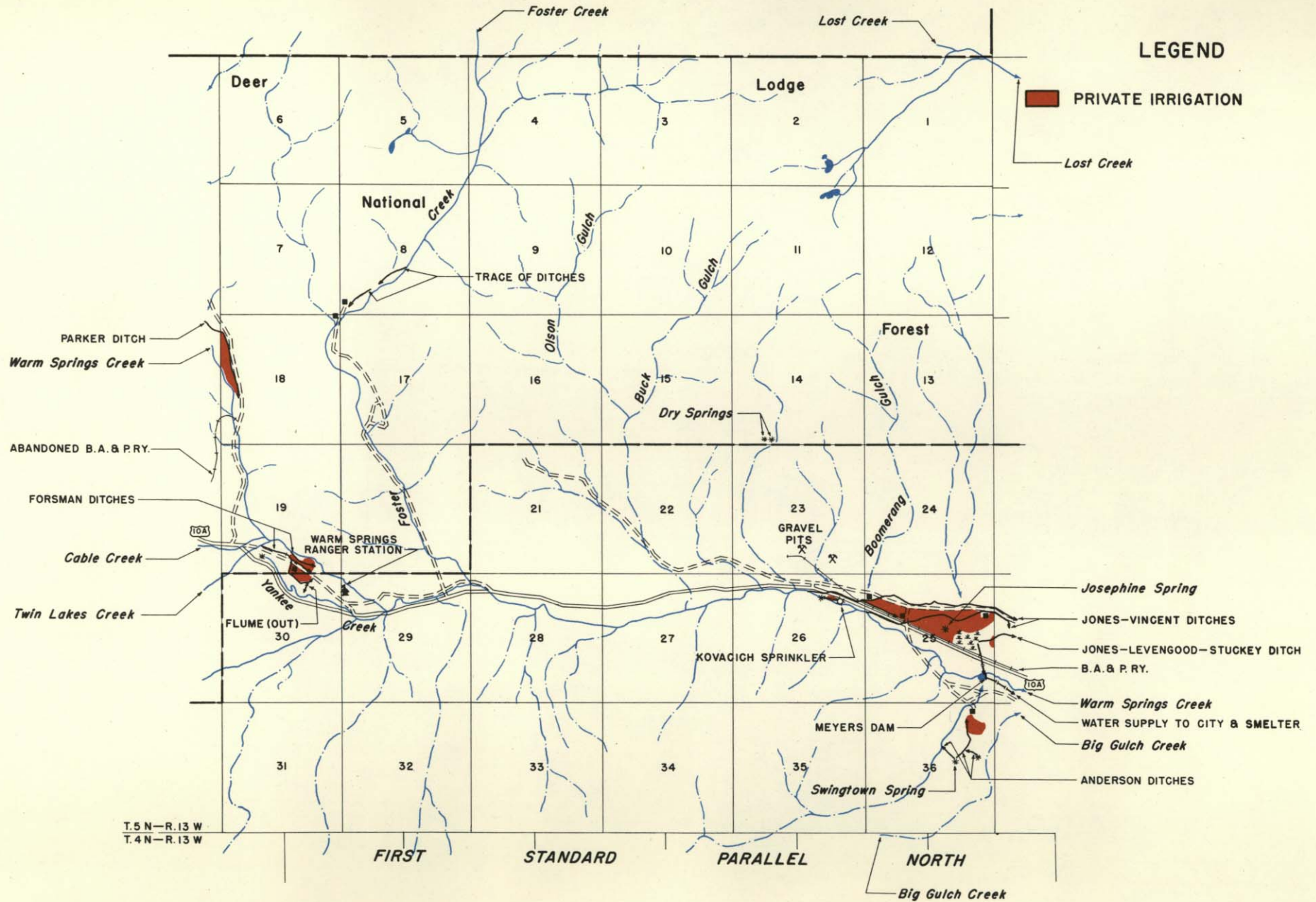
GRANITE

COUNTY

Twp. 5 NORTH  
Rge. 12 WEST

LEGEND

 PRIVATE IRRIGATION




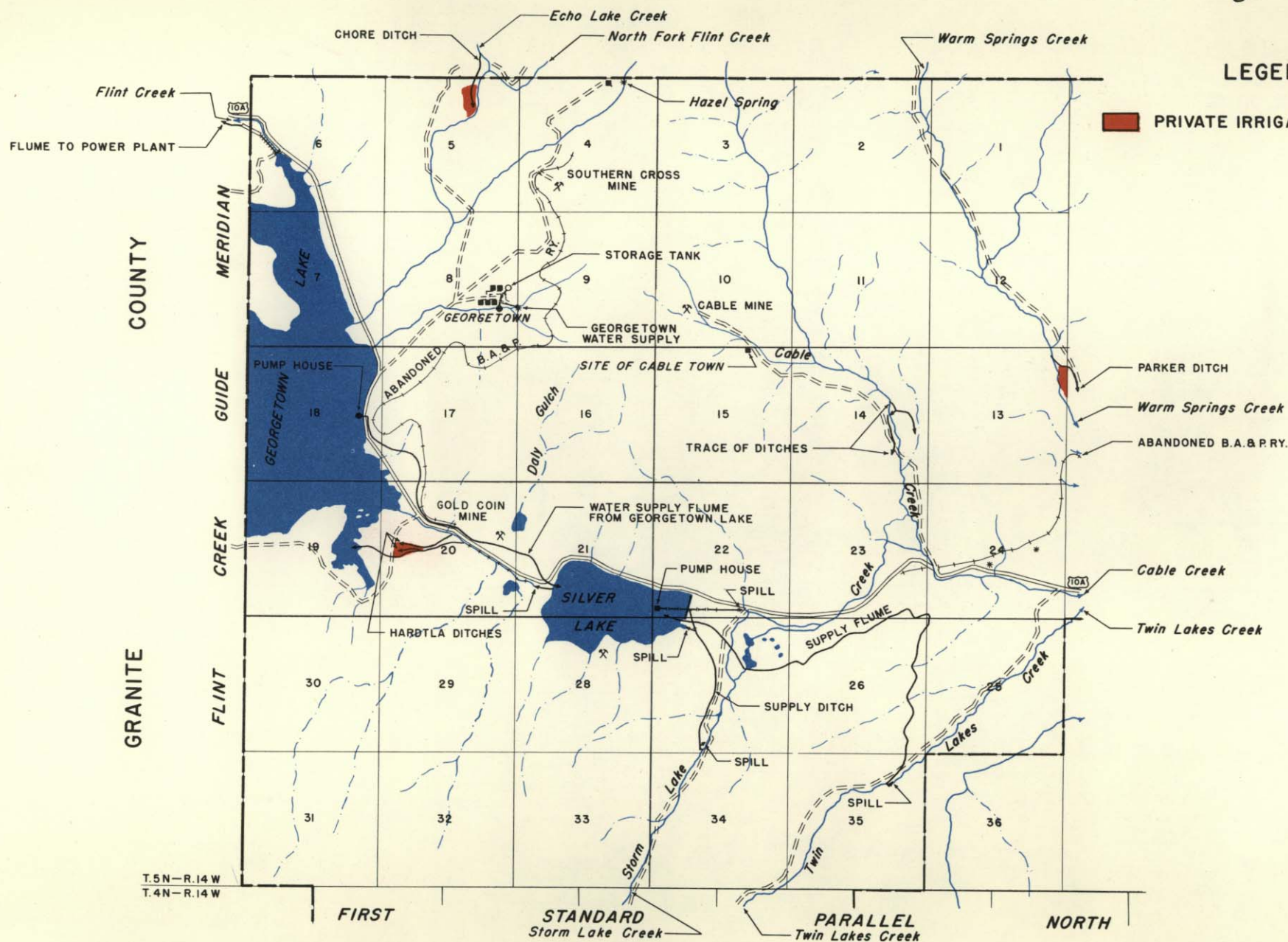
Twp. 5 NORTH  
Rge. 13 WEST

GRANITE

COUNTY

LEGEND

 PRIVATE IRRIGATION



T.5N-R.14W  
T.4N-R.14W

FIRST

STANDARD  
Storm Lake Creek

PARALLEL  
Twin Lakes Creek

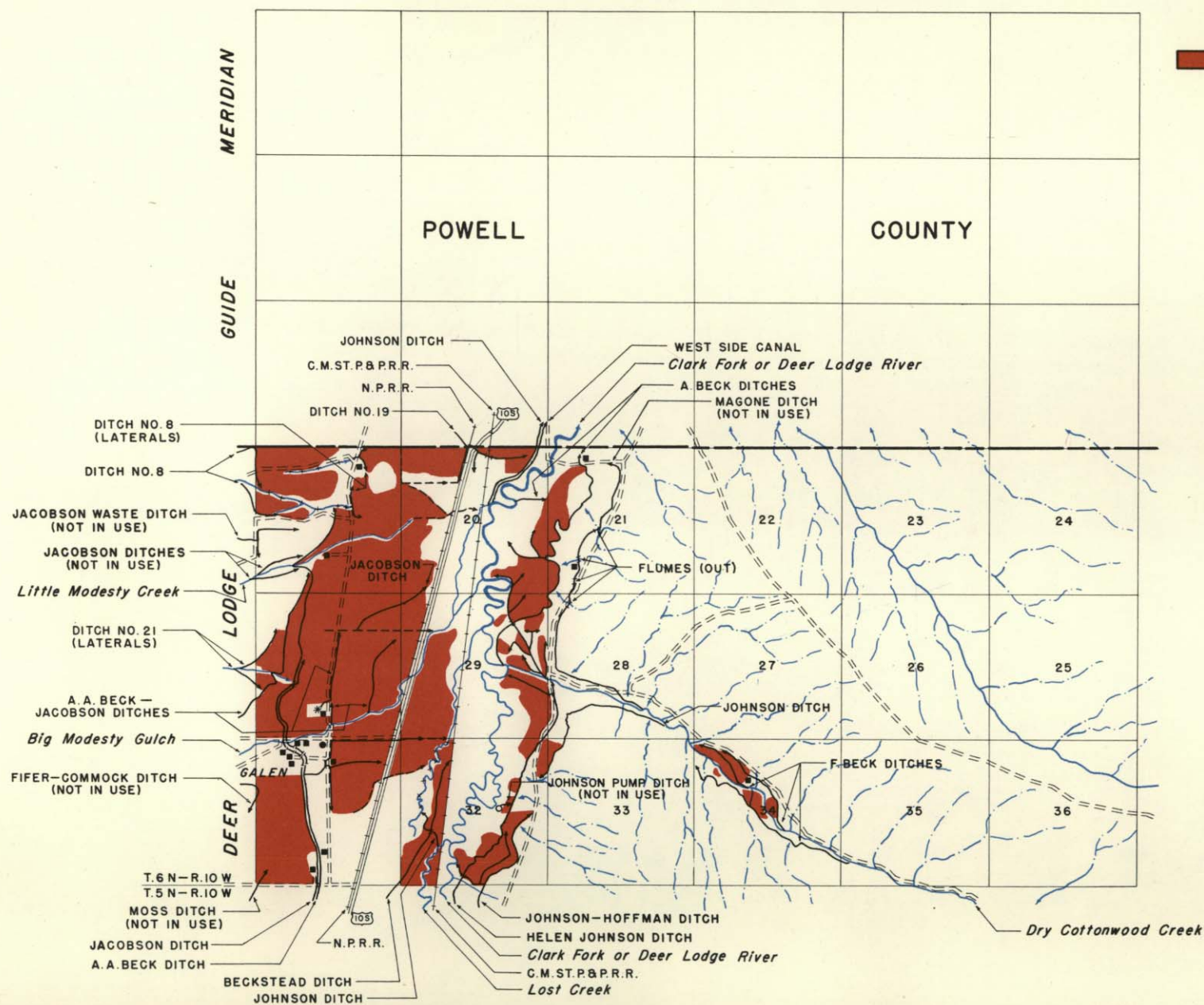
NORTH



Twp. 6 NORTH  
Rge. 9 WEST

### LEGEND

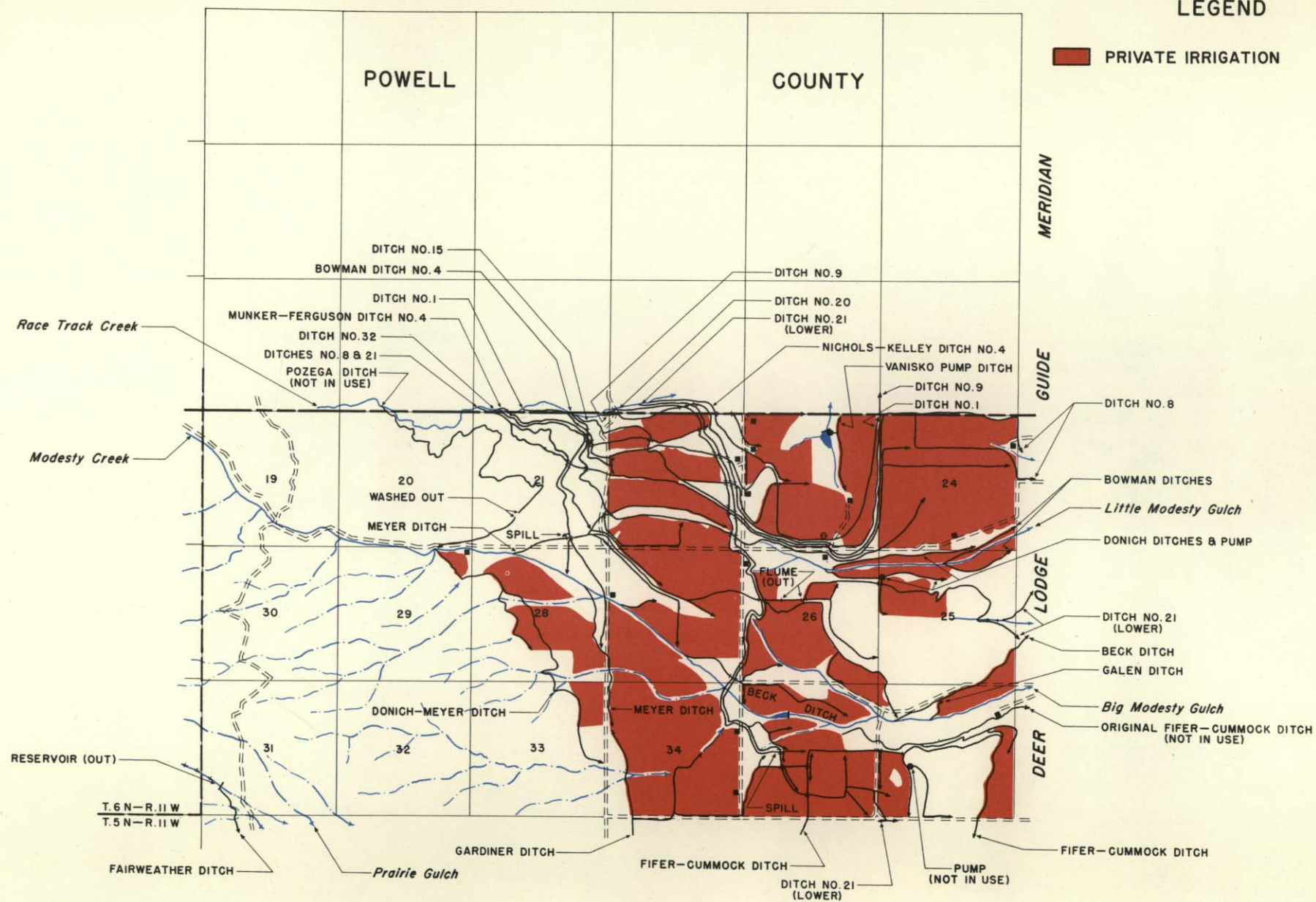
**PRIVATE IRRIGATION**



Twp. 6 NORTH  
Rge. 10 WEST

# LEGEND

PRIVATE IRRIGATION





Twp. 6 NORTH  
Rge. 11 WEST

LEGEND

 PRIVATE IRRIGATION

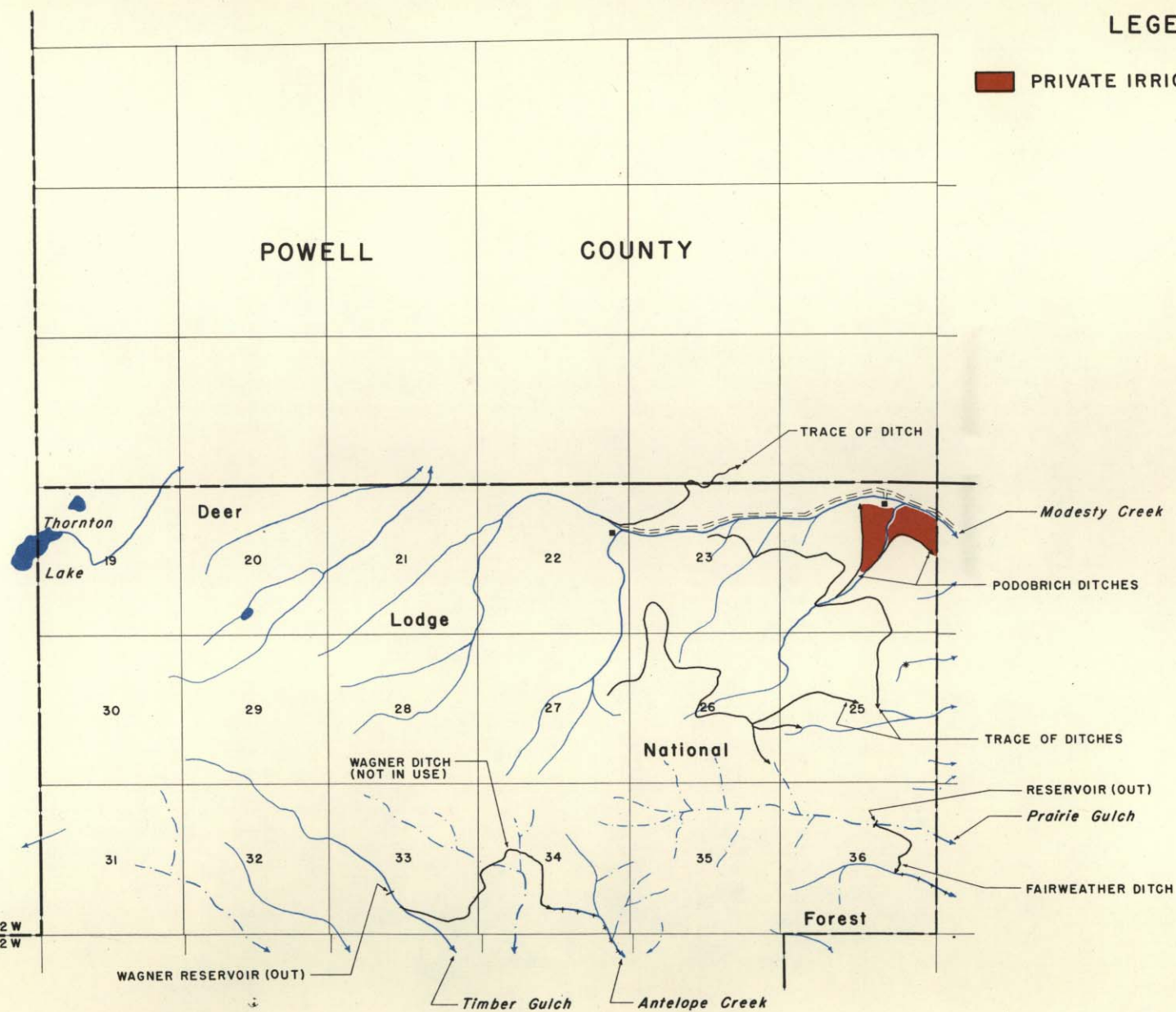
COUNTY

POWELL

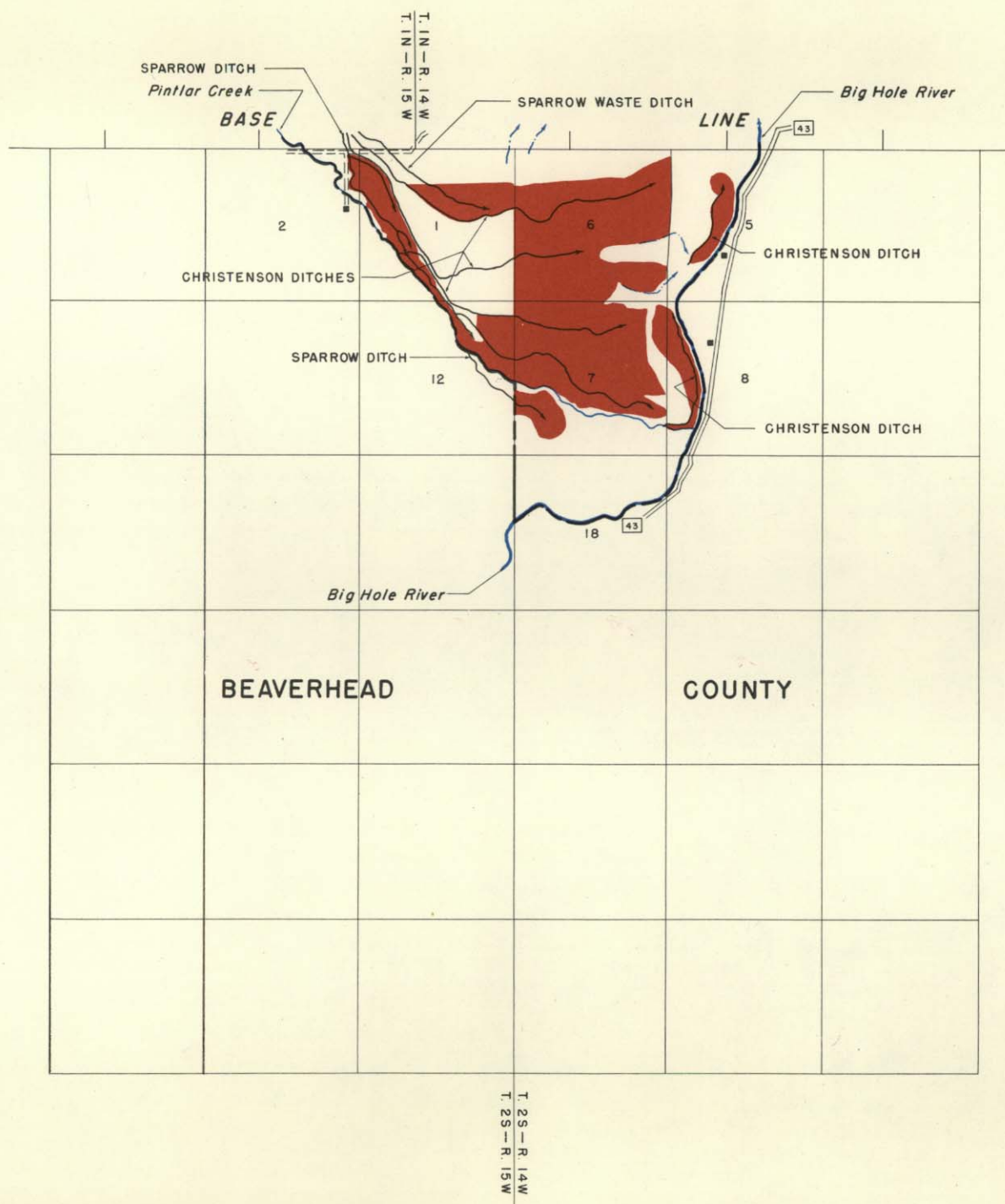
COUNTY

GRANITE

T. 6 N—R. 12 W  
T. 5 N—R. 12 W



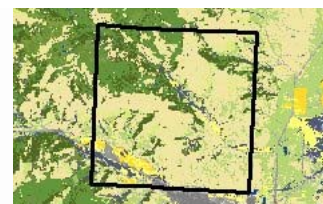
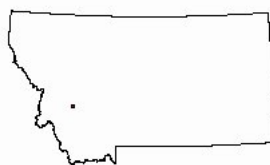
Twp. 1 SOUTH  
Rge. 14 & 15 WEST



LEGEND

PRIVATE IRRIGATION

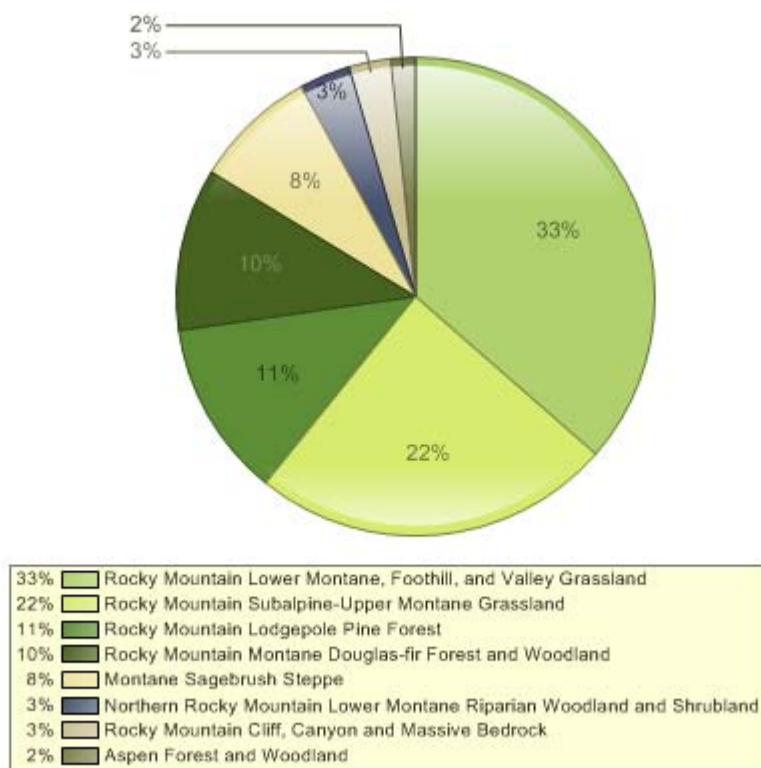
## Appendix H: Vegetation



## Montana Ecological Systems - Landcover Report

Report generated 11/12/2010 1:47:04 PM

Township 005N011W



### Primary Composition of Landcover



33%

#### Grassland Systems Montane Grassland

#### Rocky Mountain Lower Montane, Foothill, and Valley Grassland

This grassland system of the northern Rocky Mountains is found at lower montane to foothill elevations in mountains and valleys throughout Montana. These grasslands are floristically similar to Big Sagebrush Steppe but are defined by shorter summers, colder winters, and young soils derived from recent glacial and alluvial material. They are found at elevations from 548 - 1,650 meters (1,800-5,413 feet). In the lower montane zone, they range from small meadows to large open parks surrounded by conifers; below the lower treeline, they occur as extensive foothill and valley grasslands. Soils are relatively deep, fine-textured, often with coarse fragments, and non-saline. Microphytic crust may be present in high-quality occurrences. This system is typified by cool-season perennial bunch grasses and forbs (>25%) cover, with a sparse shrub cover (<10%). Rough fescue (*Festuca campestris*) is dominant in the northwestern portion of the state and Idaho fescue (*Festuca idahoensis*) is dominant or co-dominant throughout the range of the system. Bluebunch wheatgrass (*Pseudoroegneria spicata*) occurs as a co-dominant throughout the range as well, especially on xeric sites. Western wheatgrass (*Pascopyrum smithii*) is consistently present, often with appreciable coverage (>10%) in lower elevation occurrences in western Montana and virtually



always present, with relatively high coverages (>25%), on the edge of the Northwestern Great Plains region. Species diversity ranges from a high of more than 50 per 400 square meter plot on mesic sites to 15 (or fewer) on xeric and disturbed sites. Most occurrences have at least 25 vascular species present. Farmland conversion, noxious species invasion, fire suppression, heavy grazing and oil and gas development are major threats to this system.



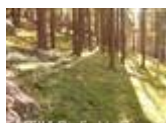
22%

## Grassland Systems

### Montane Grassland

#### Rocky Mountain Subalpine-Upper Montane Grassland

These lush grassland systems are found in upper montane to subalpine, high-elevation zones, and are shaped by short summers, cold winters, and young soils derived from recent glacial and alluvial material. In subalpine settings, dry grasslands may occur as small meadows or large open parks surrounded by higher elevational forests, but typically will have no tree cover within them. In general, soil textures are much finer, and soils are often deeper than in the neighboring forests. Most precipitation occurs as heavy snowpack in the mountains with spring and early summer rains. This system is composed of bunch grass species, with a diversity of cool season forbs. It is similar to the Rocky Mountain Lower Montane, Foothill and Valley Grassland ecological system, but is found at higher elevations and has additional floristic components with more subalpine taxa. In Montana, this system generally occurs as two plant communities: a rough fescue-Idaho fescue (*Festuca campestris*-*Festuca idahoensis*) association occurring on moister sites, such as the north and east-facing slopes and benches in the mountains; and the Idaho Fescue-bluebunch wheatgrass (*Festuca idahoensis*-*Pseudoroegneria spicata*) association occurring on drier sites, such as ridges, hilltops, and south and west facing slopes and benches. At elevations greater than 2286 meters (7,500 feet), Idaho fescue becomes dominant, sometimes associated with slender wheatgrass (*Elymus trachycaulus*), or in certain areas, tufted hairgrass (*Deschampsia cespitosa*). Noxious species invasion, fire suppression, heavy grazing, and oil and gas development are major threats to this system.



11%

## Forest and Woodland Systems

### Conifer-dominated forest and woodland (xeric-mesic)

#### Rocky Mountain Lodgepole Pine Forest

This forested system is widespread in upper montane to subalpine zones of the Montana Rocky Mountains, and east into island ranges of north-central Montana and the Bighorn and Beartooth ranges of south-central Montana. These are montane to subalpine forests where the dominance of lodgepole pine (*Pinus contorta*) is related to fire history and topographic conditions. In Montana, elevation ranges from 975 to 2,743 meters (3,200-9000 feet). These forests occur on flats to slopes of all degrees and aspect, as well as valley bottoms. Fire is frequent, and stand-replacing fires are common. Following stand-replacing fires, lodgepole pinewill rapidly colonize and develop into dense, even-aged stands. Most forests in this ecological system occur as early- to mid-successional forests persisting for 50-200 years on warmer, lower elevation forests, and 150-400 years in subalpine forests. They generally occur on dry to intermediate sites with a wide seasonal range of temperatures and long precipitation-free periods in summer. Snowfall is heavy and supplies the major source of soil water used for growth in early summer. Vigorous stands occur where the precipitation exceeds 533 millimeters (21 inches). These lodgepole forests are typically associated with rock types weathering to acidic substrates, such as granite and rhyolite. In west-central Montana ranges such the Big Belts and the Rocky Mountain Front, these forests are found on limestone substrates. These systems are especially well developed on the broad ridges and high valleys near and east of the Continental Divide. Succession proceeds at different rates, moving relatively quickly on low-elevation, mesic sites and particularly slowly in high-elevation forests such as

those along the Continental Divide in Montana.



10%

## Forest and Woodland Systems

### Conifer-dominated forest and woodland (xeric-mesic)

#### Rocky Mountain Montane Douglas-fir Forest and Woodland

In Montana, this ecological system occurs on the east side of the Continental Divide, north to about the McDonald Pass area, and along the Rocky Mountain Front. This system is associated with a dry to submesic continental climate regime with annual precipitation ranging from 51 to 102 centimeters (20-40 inches), with a maximum in winter or late spring. Winter snowpacks typically melt off in early spring at lower elevations. Elevations range from valley bottoms to 1,980 meters (6500 feet) in northern Montana and up to 2,286 meters (7500 feet) on warm aspects in southern Montana. It occurs on north-facing aspects in most areas, and south-facing aspects at higher elevations. This is a Douglas-fir (*Pseudotsuga menziesii*) dominated system without any maritime floristic composition. Fire disturbance intervals are as infrequent as 500 years, and as a result, individual trees and forests can attain great age on some sites (500 to 1,500 years). In Montana, this system occurs from lower montane to lower subalpine environments and is prevalent on calcareous substrates. Common understory shrubs include common ninebark (*Physocarpus malvaceus*), common juniper (*Juniperus communis*), Rocky Mountain juniper (*Juniperus scopulorum*), birch-leaf spiraea (*Spiraea betulifolia*), snowberry (*Symphoricarpos* species), creeping Oregon grape (*Mahonia repens*) and Canadian buffaloberry (*Shepherdia canadensis*). The Douglas-fir/pinegrass (*Calamagrostis rubescens*) type is the most ubiquitous association found within this system in Montana.



8%

## Shrubland, Steppe and Savanna Systems

### Sagebrush Steppe

#### Montane Sagebrush Steppe

This system dominates the montane and subalpine landscape of southwestern Montana from valley bottoms to subalpine ridges and is found as far north as Glacier National Park. It can also be seen in the island mountain ranges of the north-central and south-central portions of the state. It primarily occurs on deep-soiled to stony flats, ridges, nearly flat ridgetops, and mountain slopes. In general, this system occurs in areas of gentle topography, fine soils, subsurface moisture or mesic conditions, within zones of higher precipitation and areas of snow accumulation. It occurs on all slopes and aspects, variable substrates and all soil types. The shrub component of this system is generally dominated by mountain big sagebrush (*Artemisia tridentata* ssp. *vaseyana*). Other co-dominant shrubs include silver sagebrush (*Artemisia cana* ssp. *viscidula*), subalpine big sagebrush (*Artemisia tridentata* ssp. *spiciformis*), three tip sagebrush (*Artemisia tripartita* ssp. *tripartita*) and antelope bitterbrush (*Purshia tridentata*). Little sagebrush (*Artemisia arbuscula* ssp. *arbuscula*) shrublands are only found in southwestern Montana on sites with a perched water table. Wyoming big sagebrush (*Artemisia tridentata* ssp. *wyomingensis*) sites may be included within this system if occurrences are at montane elevations, and are associated with montane graminoids such as Idaho fescue (*Festuca idahoensis*), spike fescue (*Leucopoa kingii*), or poverty oatgrass (*Danthonia intermedia*). In areas where sage has been eliminated by human activities like burning, disking or poisoning, other shrubs may be dominant, especially rubber rabbitbrush (*Ericameria nauseosa*), and green rabbitbrush (*Chrysothamnus viscidiflorus*). Because of the mesic site conditions, most occurrences support a diverse herbaceous undergrowth of grasses and forbs. Shrub canopy cover is extremely variable, ranging from 10 percent to as high as 40 or 50 percent.

## Wetland and Riparian Systems

### Floodplain and Riparian



3%

### Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland

This ecological system is found throughout the Rocky Mountain and Colorado Plateau regions. In Montana, sites occur at elevations of 609-1,219 meters (2,000-4,000 feet) west of the Continental Divide. East of the Continental Divide, this system ranges up to 1,676 meters (5,500 feet). It generally comprises a mosaic of multiple communities that are tree-dominated with a diverse shrub component. It is dependent on a natural hydrologic regime with annual to episodic flooding, so it is usually found within the flood zone of rivers, on islands, sand or cobble bars, and along streambanks. It can form large, wide occurrences on mid-channel islands in larger rivers, or narrow bands on small, rocky canyon tributaries and well-drained benches. It is also typically found in backwater channels and other perennially wet but less scoured sites, such as floodplains, swales and irrigation ditches. In some locations, occurrences extend into moderately high intermountain basins where the adjacent vegetation is sage steppe. Black cottonwood (*Populus balsamifera* ssp. *trichocarpa*) is the key indicator species. Other dominant trees may include boxelder maple (*Acer negundo*), narrowleaf cottonwood (*Populus angustifolia*), eastern cottonwood (*Populus deltoides*), Douglas-fir (*Pseudotsuga menziesii*), peachleaf willow (*Salix amygdaloides*), or Rocky Mountain juniper (*Juniperus scopulorum*). Dominant shrubs include Rocky Mountain maple (*Acer glabrum*), thinleaf alder (*Alnus incana*), river birch (*Betula occidentalis*), redbud (*Cornus sericea*), hawthorne (*Crataegus* species), chokecherry (*Prunus virginiana*), skunkbush sumac (*Rhus trilobata*), willows (*Salix* species), rose (*Rosa* species), silver buffaloberry (*Shepherdia argentea*), or snowberry (*Symphoricarpos* species).



3%

### Sparse and Barren Systems Cliff, Canyon and Talus

### Rocky Mountain Cliff, Canyon and Massive Bedrock

This ecological system of barren and sparsely vegetated landscapes is found from foothill to subalpine elevations throughout the Rocky Mountains and island mountain ranges of Montana. Its range overlaps with the Western Great Plains Cliff and Outcrop, which differs in having more developed soils and more vegetated cover. It occurs on steep cliff faces, in narrow canyons, and on smaller rock outcrops of various igneous, sedimentary, and metamorphic bedrock types, and includes the unstable scree and talus slopes that typically occur below cliff faces. It is characteristically dry and sparsely vegetated, typically having less than 10% plant cover. Species composition includes individuals present in adjacent systems (unless exposed parent material is radically different) and herbaceous species specifically adapted to cliff faces and unstable talus slides. Although there may be small patches of dense vegetation, the system usually consists of scattered trees and/or shrubs such as Douglas-fir (*Pseudotsuga menziesii*), Ponderosa pine (*Pinus ponderosa*), limber pine (*Pinus flexilis*), aspen (*Populus tremuloides*), or subalpine fir (*Abies lasiocarpa*). Juniper (*Juniperus* spp.) is common at lower elevations. Shrubs adapted to xeric growing conditions and rocky soils are typically present, e.g. oceanspray (*Holodiscus discolor*), currant (*Ribes* species), common ninebark (*Physocarpus malvaceus*), wild rose (*Rosa* species), common juniper (*Juniperus communis*), Lewis mock orange (*Philadelphus lewisii*), creeping Oregon grape (*Mahonia repens*), three leaf sumac (*Rhus trilobata*), American wild raspberry (*Rubus idaeus*) or serviceberry (*Amelanchier alnifolia*). Soil development is limited, as is herbaceous cover. Forbs may include penstemon (*Penstemon* species), buckwheat (*Eriogonum* species), western sagewort (*Artemisia ludovicana*), Michaux's sagewort (*Artemisia michauxiana*), and spotted saxifrage (*Saxifraga bronchialis*). Because the elevation range is so broad, species composition may vary widely from occurrence to occurrence.

### Forest and Woodland Systems



2%

### Deciduous dominated forest and woodland

#### Aspen Forest and Woodland

This widespread ecological system is more common in the southern and central Rocky Mountains, but occurs in the montane and subalpine zones throughout much of Montana north into Canada. It is similar to the Inter-Mountain Basins Aspen Mixed Conifer Forest-Woodland found in the Big Snowy Mountains, but lacks the conifer component. Distribution of this system is primarily limited by adequate soil moisture required to meet its high evapotranspirative demand, length of growing season, and temperatures. Mean annual precipitation where these systems occur is generally greater than 38 centimeters (15 inches) and typically greater than 51 centimeters (20 inches), except in semi-arid environments where occurrences are restricted to mesic microsites such as seeps or areas below large snow drifts. Stands can occur on gentle to moderate slopes, in swales, or on level sites. At lower elevations, occurrences are found on cooler, north aspects and mesic sites. Soils are usually deep and well developed with rock often absent from the soil. Soil texture ranges from sandy loam to clay loams. This system describes mesic forests and woodlands dominated by quaking aspen (*Populus tremuloides*) without a significant conifer component (<25% relative tree cover). This aspen system can be stable and long-lived with little encroachment of coniferous species. The understory structure may be complex with multiple shrub and herbaceous layers, or simple, with just an herbaceous layer. The herbaceous layer may be dense or sparse, dominated by mesic grasses or forbs. Occurrences of this system often originate, and are likely maintained, by stand-replacing disturbances such as crown fire, disease, windthrow, elk and beaver activity.

- Additional Limited Landcover

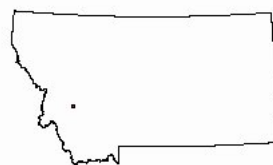
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Township 005N011W

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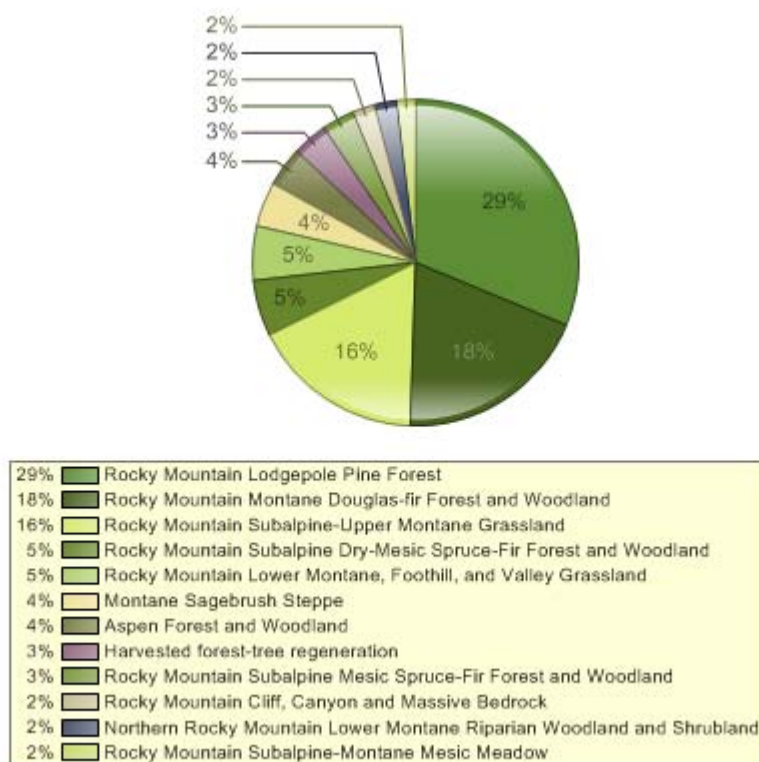




## Montana Ecological Systems - Landcover Report

Report generated 11/12/2010 1:46:05 PM

Township 005N012W



### Primary Composition of Landcover



29%

#### Forest and Woodland Systems

Conifer-dominated forest and woodland (xeric-mesic)

#### Rocky Mountain Lodgepole Pine Forest

This forested system is widespread in upper montane to subalpine zones of the Montana Rocky Mountains, and east into island ranges of north-central Montana and the Bighorn and Beartooth ranges of south-central Montana. These are montane to subalpine forests where the dominance of lodgepole pine (*Pinus contorta*) is related to fire history and topoedaphic conditions. In Montana, elevation ranges from 975 to 2,743 meters (3,200-9000 feet). These forests occur on flats to slopes of all degrees and aspect, as well as valley bottoms. Fire is frequent, and stand-replacing fires are common. Following stand-replacing fires, lodgepole pinewill rapidly colonize and develop into dense, even-aged stands. Most forests in this ecological system occur as early- to mid-successional forests persisting for 50-200 years on warmer, lower elevation forests, and 150-400 years in subalpine forests. They generally occur on dry to intermediate sites with a wide seasonal range of temperatures and long precipitation-free periods in summer. Snowfall is heavy and supplies the major source of soil water used for growth in early summer. Vigorous stands occur where the precipitation exceeds 533 millimeters (21 inches). These lodgepole forests are typically associated with rock types weathering to acidic substrates, such as granite and

rhyolite. In west-central Montana ranges such the Big Belts and the Rocky Mountain Front, these forests are found on limestone substrates. These systems are especially well developed on the broad ridges and high valleys near and east of the Continental Divide. Succession proceeds at different rates, moving relatively quickly on low-elevation, mesic sites and particularly slowly in high-elevation forests such as those along the Continental Divide in Montana.



18%

## Forest and Woodland Systems

### Conifer-dominated forest and woodland (xeric-mesic)

#### Rocky Mountain Montane Douglas-fir Forest and Woodland

In Montana, this ecological system occurs on the east side of the Continental Divide, north to about the McDonald Pass area, and along the Rocky Mountain Front. This system is associated with a dry to submesic continental climate regime with annual precipitation ranging from 51 to 102 centimeters (20-40 inches), with a maximum in winter or late spring. Winter snowpacks typically melt off in early spring at lower elevations. Elevations range from valley bottoms to 1,980 meters (6500 feet) in northern Montana and up to 2,286 meters (7500 feet) on warm aspects in southern Montana. It occurs on north-facing aspects in most areas, and south-facing aspects at higher elevations. This is a Douglas-fir (*Pseudotsuga menziesii*) dominated system without any maritime floristic composition. Fire disturbance intervals are as infrequent as 500 years, and as a result, individual trees and forests can attain great age on some sites (500 to 1,500 years). In Montana, this system occurs from lower montane to lower subalpine environments and is prevalent on calcareous substrates. Common understory shrubs include common ninebark (*Physocarpus malvaceus*), common juniper (*Juniperus communis*), Rocky Mountain juniper (*Juniperus scopulorum*), birch-leaf spiraea (*Spiraea betulifolia*), snowberry (*Symphoricarpos* species), creeping Oregon grape (*Mahonia repens*) and Canadian buffaloberry (*Shepherdia canadensis*). The Douglas-fir/pinegrass (*Calamagrostis rubescens*) type is the most ubiquitous association found within this system in Montana.



16%

## Grassland Systems

### Montane Grassland

#### Rocky Mountain Subalpine-Upper Montane Grassland

These lush grassland systems are found in upper montane to subalpine, high-elevation, zones, and are shaped by short summers, cold winters, and young soils derived from recent glacial and alluvial material. In subalpine settings, dry grasslands may occur as small meadows or large open parks surrounded by higher elevational forests, but typically will have no tree cover within them. In general, soil textures are much finer, and soils are often deeper than in the neighboring forests. Most precipitation occurs as heavy snowpack in the mountains with spring and early summer rains. This system is composed of bunch grass species, with a diversity of cool season forbs. It is similar to the Rocky Mountain Lower Montane, Foothill and Valley Grassland ecological system, but is found at higher elevations and has additional floristic components with more subalpine taxa. In Montana, this system generally occurs as two plant communities: a rough fescue-Idaho fescue (*Festuca campestris*-*Festuca idahoensis*) association occurring on moister sites, such as the north and east-facing slopes and benches in the mountains; and the Idaho Fescue-bluebunch wheatgrass (*Festuca idahoensis*-*Pseudoroegneria spicata*) association occurring on drier sites, such as ridges, hilltops, and south and west facing slopes and benches. At elevations greater than 2286 meters (7,500 feet), Idaho fescue becomes dominant, sometimes associated with slender wheatgrass (*Elymus trachycaulus*), or in certain areas, tufted hairgrass (*Deschampsia cespitosa*). Noxious species invasion, fire suppression, heavy grazing, and oil and gas development are major threats to this system.



5%

## Forest and Woodland Systems

Conifer-dominated forest and woodland (xeric-mesic)

### Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland

Engelmann spruce (*Picea engelmannii*) and subalpine fir (*Abies lasiocarpa*) make up a substantial part of the montane and lower subalpine forests of the Montana Rocky Mountains and mountain island ranges of north-central and west-central Montana. Spruce is usually associated with fir and occurs as either a climax co-dominant or as a persistent, long-lived seral species in most upper elevation fir habitat types. Dry to mesic spruce-dominated forests range from 884-1,585 meters (2,900-5,200 feet) west of the Continental Divide, and 1585-2,073 meters (5,200-6,800 feet) east of the Continental Divide in the northern and central portions of the state. This system can be found at elevations up to 2,896 meters (9,500 feet) in southwestern Montana. Forests are found on gentle to very steep mountain slopes, high-elevation ridge tops and upper slopes, plateau-like surfaces, basins, alluvial terraces, well-drained benches, and inactive stream terraces. Tree canopy characteristics are relatively uniform. In northern Montana, Engelmann spruce hybridizes with its boreal counterpart, white spruce (*Picea glauca*). Douglas-fir (*Pseudotsuga menziesii*), lodgepole pine (*Pinus contorta*), and western larch (*Larix occidentalis*) (west of the Continental Divide) are seral but often present in these forests. The understory is comprised of a mixture of shrubs, forbs and graminoids tolerant of warmer and drier soil conditions than those found on the more mesic to wet spruce-fir system. The drier occurrences of this system are especially common on steep slopes at upper elevations throughout the eastern Rocky Mountains, whereas the more mesic occurrences form substantial cover west of the Continental Divide in the Flathead, Lolo, Bitterroot and Kootenai river drainages.



5%

## Grassland Systems

### Montane Grassland

### Rocky Mountain Lower Montane, Foothill, and Valley Grassland

This grassland system of the northern Rocky Mountains is found at lower montane to foothill elevations in mountains and valleys throughout Montana. These grasslands are floristically similar to Big Sagebrush Steppe but are defined by shorter summers, colder winters, and young soils derived from recent glacial and alluvial material. They are found at elevations from 548 - 1,650 meters (1,800-5,413 feet). In the lower montane zone, they range from small meadows to large open parks surrounded by conifers; below the lower treeline, they occur as extensive foothill and valley grasslands. Soils are relatively deep, fine-textured, often with coarse fragments, and non-saline. Microphytic crust may be present in high-quality occurrences. This system is typified by cool-season perennial bunch grasses and forbs (>25%) cover, with a sparse shrub cover (<10%). Rough fescue (*Festuca campestris*) is dominant in the northwestern portion of the state and Idaho fescue (*Festuca idahoensis*) is dominant or co-dominant throughout the range of the system. Bluebunch wheatgrass (*Pseudoroegneria spicata*) occurs as a co-dominant throughout the range as well, especially on xeric sites. Western wheatgrass (*Pascopyrum smithii*) is consistently present, often with appreciable coverage (>10%) in lower elevation occurrences in western Montana and virtually always present, with relatively high coverages (>25%), on the edge of the Northwestern Great Plains region. Species diversity ranges from a high of more than 50 per 400 square meter plot on mesic sites to 15 (or fewer) on xeric and disturbed sites. Most occurrences have at least 25 vascular species present. Farmland conversion, noxious species invasion, fire suppression, heavy grazing and oil and gas development are major threats to this system.

## Shrubland, Steppe and Savanna Systems



### Sagebrush Steppe

#### Montane Sagebrush Steppe

4%

This system dominates the montane and subalpine landscape of southwestern Montana from valley bottoms to subalpine ridges and is found as far north as Glacier National Park. It can also be seen in the island mountain ranges of the north-central and south-central portions of the state. It primarily occurs on deep-soiled to stony flats, ridges, nearly flat ridgetops, and mountain slopes. In general, this system occurs in areas of gentle topography, fine soils, subsurface moisture or mesic conditions, within zones of higher precipitation and areas of snow accumulation. It occurs on all slopes and aspects, variable substrates and all soil types. The shrub component of this system is generally dominated by mountain big sagebrush (*Artemisia tridentata* ssp. *vaseyana*). Other co-dominant shrubs include silver sagebrush (*Artemisia cana* ssp. *viscidula*), subalpine big sagebrush (*Artemisia tridentata* ssp. *spiciformis*), three tip sagebrush (*Artemisia tripartita* ssp. *tripartita*) and antelope bitterbrush (*Purshia tridentata*). Little sagebrush (*Artemisia arbuscula* ssp. *arbuscula*) shrublands are only found in southwestern Montana on sites with a perched water table. Wyoming big sagebrush (*Artemisia tridentata* ssp. *wyomingensis*) sites may be included within this system if occurrences are at montane elevations, and are associated with montane graminoids such as Idaho fescue (*Festuca idahoensis*), spike fescue (*Leucopoa kingii*), or poverty oatgrass (*Danthonia intermedia*). In areas where sage has been eliminated by human activities like burning, disking or poisoning, other shrubs may be dominant, especially rubber rabbitbrush (*Ericameria nauseosa*), and green rabbitbrush (*Chrysothamnus viscidiflorus*). Because of the mesic site conditions, most occurrences support a diverse herbaceous undergrowth of grasses and forbs. Shrub canopy cover is extremely variable, ranging from 10 percent to as high as 40 or 50 percent.



### Forest and Woodland Systems

#### Deciduous dominated forest and woodland

4%

#### Aspen Forest and Woodland

This widespread ecological system is more common in the southern and central Rocky Mountains, but occurs in the montane and subalpine zones throughout much of Montana north into Canada. It is similar to the Inter-Mountain Basins Aspen Mixed Conifer Forest-Woodland found in the Big Snowy Mountains, but lacks the conifer component. Distribution of this system is primarily limited by adequate soil moisture required to meet its high evapotranspirative demand, length of growing season, and temperatures. Mean annual precipitation where these systems occur is generally greater than 38 centimeters (15 inches) and typically greater than 51 centimeters (20 inches), except in semi-arid environments where occurrences are restricted to mesic microsites such as seeps or areas below large snow drifts. Stands can occur on gentle to moderate slopes, in swales, or on level sites. At lower elevations, occurrences are found on cooler, north aspects and mesic sites. Soils are usually deep and well developed with rock often absent from the soil. Soil texture ranges from sandy loam to clay loams. This system describes mesic forests and woodlands dominated by quaking aspen (*Populus tremuloides*) without a significant conifer component (<25% relative tree cover). This aspen system can be stable and long-lived with little encroachment of coniferous species. The understory structure may be complex with multiple shrub and herbaceous layers, or simple, with just an herbaceous layer. The herbaceous layer may be dense or sparse, dominated by mesic grasses or forbs. Occurrences of this system often originate, and are likely maintained, by stand-replacing disturbances such as crown fire, disease, windthrow, elk and beaver activity.

### Recently Disturbed or Modified

#### Harvested Forest

3%



## Harvested forest-tree regeneration

Land cover has been modified by logging. New growth is primarily trees.



3%

### Forest and Woodland Systems

Conifer-dominated forest and woodland (mesic-wet)

## Rocky Mountain Subalpine Mesic Spruce-Fir Forest and Woodland

These forests are similar to Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland (4242), but occur in locations with cold-air drainage or ponding, or where snowpacks linger late into the summer, such as north-facing slopes and high-elevation ravines. They are distinguished by their occurrence on mesic to wet microsites within the matrix of the drier (and warmer) subalpine spruce-fir or lodgepole pine forests. The microsites include north-facing slopes, swales or ravines, toeslopes, cold pockets, and other locations where available soil moisture is higher or lasts longer into the growing season. This system can extend down in elevation below the subalpine zone in places where cold-air ponding occurs, especially on north and east aspects. Elevations range from 884 to 1,981 meters (2,900-6,500 feet) west of the Continental Divide, and 1,585 to 2,682 meters (5,200-8,800 feet) east of the Continental Divide. Spruce is usually associated with subalpine fir and occurs either as a climax co-dominant or as a persistent, long-lived seral species in most upper elevation subalpine fir stands. Mountain hemlock (*Tsuga mertensiana*) occurs as small patches within the matrix of this mesic spruce-fir system, but only in the most maritime of environments of northwestern Montana, in the coldest and wettest sites. The shrub understory contains many ericaceous species such as rusty leaf menziesia (*Menziesia ferruginea*), dwarf huckleberry (*Vaccinium caespitosum*), mountain huckleberry (*Vaccinium membranaceum*), bilberry (*Vaccinium myrtillus*), grouse whortleberry (*Vaccinium scoparium*), pink mountain heath (*Phyllodoce empetriformis*), black twinberry honeysuckle (*Lonicera involucrata*), gooseberry (*Ribes* species) and thimbleberry (*Rubus parviflorus*). The herbaceous understory contains mesic forbs, graminoids, and ferns and fern allies on the wettest sites. Moss cover is often high. Stand-replacing fires are less common in mesic spruce-fir forests than in dry-mesic forests.



2%

### Sparse and Barren Systems

Cliff, Canyon and Talus

## Rocky Mountain Cliff, Canyon and Massive Bedrock

This ecological system of barren and sparsely vegetated landscapes is found from foothill to subalpine elevations throughout the Rocky Mountains and island mountain ranges of Montana. Its range overlaps with the Western Great Plains Cliff and Outcrop, which differs in having more developed soils and more vegetated cover. It occurs on steep cliff faces, in narrow canyons, and on smaller rock outcrops of various igneous, sedimentary, and metamorphic bedrock types, and includes the unstable scree and talus slopes that typically occur below cliff faces. It is characteristically dry and sparsely vegetated, typically having less than 10% plant cover. Species composition includes individuals present in adjacent systems (unless exposed parent material is radically different) and herbaceous species specifically adapted to cliff faces and unstable talus slides. Although there may be small patches of dense vegetation, the system usually consists of scattered trees and/or shrubs such as Douglas-fir (*Pseudotsuga menziesii*), Ponderosa pine (*Pinus ponderosa*), limber pine (*Pinus flexilis*), aspen (*Populus tremuloides*), or subalpine fir (*Abies lasiocarpa*). Juniper (*Juniperus* spp.) is common at lower elevations. Shrubs adapted to xeric growing conditions and rocky soils are typically present, e.g. oceanspray (*Holodiscus discolor*), currant (*Ribes* species), common ninebark (*Physocarpus malvaceus*), wild rose (*Rosa* species), common juniper (*Juniperus communis*), Lewis mock orange (*Philadelphus lewisii*), creeping Oregon grape (*Mahonia repens*), three leaf sumac (*Rhus trilobata*), American wild raspberry (*Rubus idaeus*) or serviceberry

(*Amelanchier alnifolia*). Soil development is limited, as is herbaceous cover. Forbs may include penstemon (*Penstemon* species), buckwheat (*Eriogonum* species), western sagewort (*Artemisia ludovicana*), Michaux's sagewort (*Artemisia michauxiana*), and spotted saxifrage (*Saxifraga bronchialis*). Because the elevation range is so broad, species composition may vary widely from occurrence to occurrence.



2%

## Wetland and Riparian Systems

### Floodplain and Riparian

#### Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland

This ecological system is found throughout the Rocky Mountain and Colorado Plateau regions. In Montana, sites occur at elevations of 609-1,219 meters (2,000-4,000 feet) west of the Continental Divide. East of the Continental Divide, this system ranges up to 1,676 meters (5,500 feet). It generally comprises a mosaic of multiple communities that are tree-dominated with a diverse shrub component. It is dependent on a natural hydrologic regime with annual to episodic flooding, so it is usually found within the flood zone of rivers, on islands, sand or cobble bars, and along streambanks. It can form large, wide occurrences on mid-channel islands in larger rivers, or narrow bands on small, rocky canyon tributaries and well-drained benches. It is also typically found in backwater channels and other perennially wet but less scoured sites, such as floodplains, swales and irrigation ditches. In some locations, occurrences extend into moderately high intermountain basins where the adjacent vegetation is sage steppe. Black cottonwood (*Populus balsamifera* ssp. *trichocarpa*) is the key indicator species. Other dominant trees may include boxelder maple (*Acer negundo*), narrowleaf cottonwood (*Populus angustifolia*), eastern cottonwood (*Populus deltoides*), Douglas-fir (*Pseudotsuga menziesii*), peachleaf willow (*Salix amygdaloides*), or Rocky Mountain juniper (*Juniperus scopulorum*). Dominant shrubs include Rocky Mountain maple (*Acer glabrum*), thinleaf alder (*Alnus incana*), river birch (*Betula occidentalis*), redbud (*Cornus sericea*), hawthorne (*Crataegus* species), chokecherry (*Prunus virginiana*), skunkbush sumac (*Rhus trilobata*), willows (*Salix* species), rose (*Rosa* species), silver buffaloberry (*Shepherdia argentea*), or snowberry (*Symphoricarpos* species).



2%

## Grassland Systems

### Montane Grassland

#### Rocky Mountain Subalpine-Montane Mesic Meadow

This system is restricted to sites from lower montane to subalpine elevations where finely textured soils, snow deposition, or windswept conditions limit tree establishment. Many occurrences are small patches, and are often found in mosaics within woodlands, dense shrublands, or just below alpine communities. Elevations range from 600 to 2,011 meters (2,000-6,600 feet) in the northern Rocky Mountains and up to 2,286- 2,682 meters (7,500-8,800 feet) in the mountains of southwestern Montana. This system occurs on gentle to moderate-gradient slopes and in relatively moist habitats. Soils are typically seasonally moist to saturated in the spring, but dry out later in the growing season. At montane elevations, soils are usually clays or silt loams, and some occurrences may have inclusions of hydric soils in low, depressional areas. At subalpine elevations, soils are derived a variety of parent materials, and are usually rocky or gravelly with good aeration and drainage, but with a well developed organic layer. Some occurrences are more heavily dominated by grasses, while others are more dominated by forbs. Common grasses include tufted hairgrass (*Deschampsia caespitosa*), showy oniongrass (*Melica spectabilis*), mountain brome (*Bromus carinatus*), blue wildrye (*Elymus glaucus*), awned sedge (*Carex atherodes*), and small wing sedge (*Carex microptera*). Forb dominated meadows usually comprise a wide species diversity which differs from montane to subalpine elevations. Shrubs such as shrubby cinquefoil (*Dasiphora fruticosa* ssp. *floribunda*)

and snowberry (*Symphoricarpos* species) are occasional but not abundant. This system differs from the Rocky Mountain Alpine Montane Wet Meadow system in that it soils dry out by mid-summer.

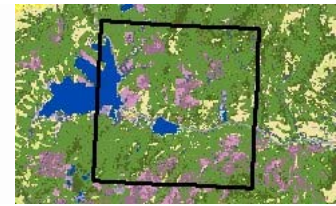
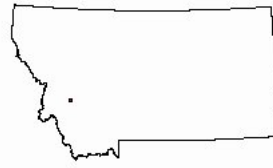
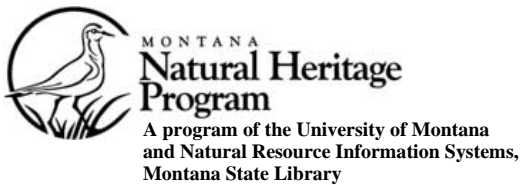
- Additional Limited Landcover

**Citation for this report:**

Montana Ecological Systems / Landcover Report

Township 005N012W

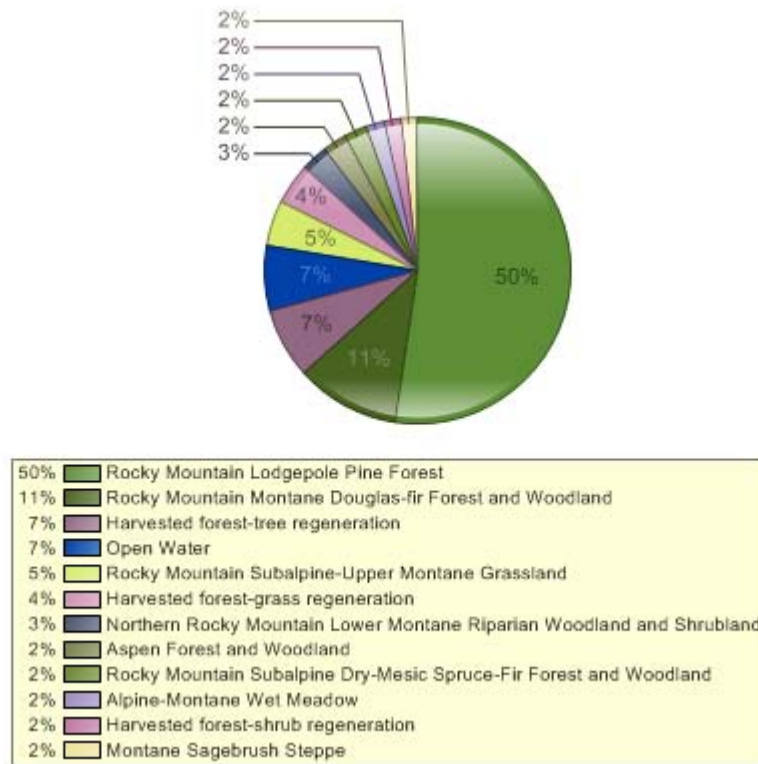
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## Montana Ecological Systems - Landcover Report

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Township 005N013W



### Primary Composition of Landcover



50%

#### Forest and Woodland Systems

Conifer-dominated forest and woodland (xeric-mesic)

#### Rocky Mountain Lodgepole Pine Forest

This forested system is widespread in upper montane to subalpine zones of the Montana Rocky Mountains, and east into island ranges of north-central Montana and the Bighorn and Beartooth ranges of south-central Montana. These are montane to subalpine forests where the dominance of lodgepole pine (*Pinus contorta*) is related to fire history and topoedaphic conditions. In Montana, elevation ranges from 975 to 2,743 meters (3,200-9000 feet). These forests occur on flats to slopes of all degrees and aspect, as well as valley bottoms. Fire is frequent, and stand-replacing fires are common. Following stand-replacing fires, lodgepole pinewill rapidly colonize and develop into dense, even-aged stands. Most forests in this ecological system occur as early- to mid-successional forests persisting for 50-200 years on warmer, lower elevation forests, and 150-400 years in subalpine forests. They generally occur on dry to intermediate sites with a wide seasonal range of temperatures and long precipitation-free periods in summer. Snowfall is heavy and supplies the major source of soil water used for growth in early summer. Vigorous stands occur where the precipitation exceeds 533 millimeters (21 inches). These lodgepole forests are typically associated with rock types weathering to acidic substrates, such as granite and



rhyolite. In west-central Montana ranges such the Big Belts and the Rocky Mountain Front, these forests are found on limestone substrates. These systems are especially well developed on the broad ridges and high valleys near and east of the Continental Divide. Succession proceeds at different rates, moving relatively quickly on low-elevation, mesic sites and particularly slowly in high-elevation forests such as those along the Continental Divide in Montana.



11%

## Forest and Woodland Systems

### Conifer-dominated forest and woodland (xeric-mesic)



### Rocky Mountain Montane Douglas-fir Forest and Woodland

In Montana, this ecological system occurs on the east side of the Continental Divide, north to about the McDonald Pass area, and along the Rocky Mountain Front. This system is associated with a dry to submesic continental climate regime with annual precipitation ranging from 51 to 102 centimeters (20-40 inches), with a maximum in winter or late spring. Winter snowpacks typically melt off in early spring at lower elevations. Elevations range from valley bottoms to 1,980 meters (6500 feet) in northern Montana and up to 2,286 meters (7500 feet) on warm aspects in southern Montana. It occurs on north-facing aspects in most areas, and south-facing aspects at higher elevations. This is a Douglas-fir (*Pseudotsuga menziesii*) dominated system without any maritime floristic composition. Fire disturbance intervals are as infrequent as 500 years, and as a result, individual trees and forests can attain great age on some sites (500 to 1,500 years). In Montana, this system occurs from lower montane to lower subalpine environments and is prevalent on calcareous substrates. Common understory shrubs include common ninebark (*Physocarpus malvaceus*), common juniper (*Juniperus communis*), Rocky Mountain juniper (*Juniperus scopulorum*), birch-leaf spiraea (*Spiraea betulifolia*), snowberry (*Symphoricarpos* species), creeping Oregon grape (*Mahonia repens*) and Canadian buffaloberry (*Shepherdia canadensis*). The Douglas-fir/pinegrass (*Calamagrostis rubescens*) type is the most ubiquitous association found within this system in Montana.

## Recently Disturbed or Modified

7%

### Harvested Forest



### Harvested forest-tree regeneration

Land cover has been modified by logging. New growth is primarily trees.



7%

## Wetland and Riparian Systems

### Open Water



### Open Water



5%

## Grassland Systems

### Montane Grassland



### Rocky Mountain Subalpine-Upper Montane Grassland

These lush grassland systems are found in upper montane to subalpine, high-elevation zones, and are shaped by short summers, cold winters, and young soils derived from recent glacial and alluvial material. In subalpine settings, dry grasslands may occur as small meadows or large open parks surrounded by higher elevational forests, but typically will have no tree cover within them. In general, soil textures are

much finer, and soils are often deeper than in the neighboring forests. Most precipitation occurs as heavy snowpack in the mountains with spring and early summer rains. This system is composed of bunch grass species, with a diversity of cool season forbs. It is similar to the Rocky Mountain Lower Montane, Foothill and Valley Grassland ecological system, but is found at higher elevations and has additional floristic components with more subalpine taxa. In Montana, this system generally occurs as two plant communities: a rough fescue-Idaho fescue (*Festuca campestris*-*Festuca idahoensis*) association occurring on moister sites, such as the north and east-facing slopes and benches in the mountains; and the Idaho Fescue-bluebunch wheatgrass (*Festuca idahoensis*-*Pseudoroegneria spicata*) association occurring on drier sites, such as ridges, hilltops, and south and west facing slopes and benches. At elevations greater than 2286 meters (7,500 feet), Idaho fescue becomes dominant, sometimes associated with slender wheatgrass (*Elymus trachycaulus*), or in certain areas, tufted hairgrass (*Deschampsia cespitosa*). Noxious species invasion, fire suppression, heavy grazing, and oil and gas development are major threats to this system.

### Recently Disturbed or Modified

4%

#### Harvested Forest



#### Harvested forest-grass regeneration

Land cover has been modified by logging. New growth is primarily herbaceous species.



3%

### Wetland and Riparian Systems

#### Floodplain and Riparian



#### Northern Rocky Mountain Lower Montane Riparian Woodland and Shrubland

This ecological system is found throughout the Rocky Mountain and Colorado Plateau regions. In Montana, sites occur at elevations of 609-1,219 meters (2,000-4,000 feet) west of the Continental Divide. East of the Continental Divide, this system ranges up to 1,676 meters (5,500 feet). It generally comprises a mosaic of multiple communities that are tree-dominated with a diverse shrub component. It is dependent on a natural hydrologic regime with annual to episodic flooding, so it is usually found within the flood zone of rivers, on islands, sand or cobble bars, and along streambanks. It can form large, wide occurrences on mid-channel islands in larger rivers, or narrow bands on small, rocky canyon tributaries and well-drained benches. It is also typically found in backwater channels and other perennially wet but less scoured sites, such as floodplains, swales and irrigation ditches. In some locations, occurrences extend into moderately high intermountain basins where the adjacent vegetation is sage steppe. Black cottonwood (*Populus balsamifera* ssp. *trichocarpa*) is the key indicator species. Other dominant trees may include boxelder maple (*Acer negundo*), narrowleaf cottonwood (*Populus angustifolia*), eastern cottonwood (*Populus deltoides*), Douglas-fir (*Pseudotsuga menziesii*), peachleaf willow (*Salix amygdaloides*), or Rocky Mountain juniper (*Juniperus scopulorum*). Dominant shrubs include Rocky Mountain maple (*Acer glabrum*), thinleaf alder (*Alnus incana*), river birch (*Betula occidentalis*), redbud (*Cornus sericea*), hawthorne (*Crataegus* species), chokecherry (*Prunus virginiana*), skunkbush sumac (*Rhus trilobata*), willows (*Salix* species), rose (*Rosa* species), silver buffaloberry (*Shepherdia argentea*), or snowberry (*Symphoricarpos* species).



2%

### Forest and Woodland Systems

#### Deciduous dominated forest and woodland



#### Aspen Forest and Woodland

This widespread ecological system is more common in the southern and central Rocky Mountains, but occurs in the montane and subalpine zones throughout much of Montana north into Canada. It is similar to the Inter-Mountain Basins Aspen Mixed Conifer Forest-Woodland found in the Big Snowy Mountains, but lacks the conifer component. Distribution of this system is primarily limited by adequate soil moisture required to meet its high evapotranspirative demand, length of growing season, and temperatures. Mean annual precipitation where these systems occur is generally greater than 38 centimeters (15 inches) and typically greater than 51 centimeters (20 inches), except in semi-arid environments where occurrences are restricted to mesic microsites such as seeps or areas below large snow drifts. Stands can occur on gentle to moderate slopes, in swales, or on level sites. At lower elevations, occurrences are found on cooler, north aspects and mesic sites. Soils are usually deep and well developed with rock often absent from the soil. Soil texture ranges from sandy loam to clay loams. This system describes mesic forests and woodlands dominated by quaking aspen (*Populus tremuloides*) without a significant conifer component (<25% relative tree cover). This aspen system can be stable and long-lived with little encroachment of coniferous species. The understory structure may be complex with multiple shrub and herbaceous layers, or simple, with just an herbaceous layer. The herbaceous layer may be dense or sparse, dominated by mesic grasses or forbs. Occurrences of this system often originate, and are likely maintained, by stand-replacing disturbances such as crown fire, disease, windthrow, elk and beaver activity.



2%

## Forest and Woodland Systems

Conifer-dominated forest and woodland (xeric-mesic)

### Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland

Engelmann spruce (*Picea engelmannii*) and subalpine fir (*Abies lasiocarpa*) make up a substantial part of the montane and lower subalpine forests of the Montana Rocky Mountains and mountain island ranges of north-central and west-central Montana. Spruce is usually associated with fir and occurs as either a climax co-dominant or as a persistent, long-lived seral species in most upper elevation fir habitat types. Dry to mesic spruce-dominated forests range from 884-1,585 meters (2,900-5,200 feet) west of the Continental Divide, and 1585-2,073 meters (5,200-6,800 feet) east of the Continental Divide in the northern and central portions of the state. This system can be found at elevations up to 2,896 meters (9,500 feet) in southwestern Montana. Forests are found on gentle to very steep mountain slopes, high-elevation ridge tops and upper slopes, plateau-like surfaces, basins, alluvial terraces, well-drained benches, and inactive stream terraces. Tree canopy characteristics are relatively uniform. In northern Montana, Engelmann spruce hybridizes with its boreal counterpart, white spruce (*Picea glauca*). Douglas-fir (*Pseudotsuga menziesii*), lodgepole pine (*Pinus contorta*), and western larch (*Larix occidentalis*) (west of the Continental Divide) are seral but often present in these forests. The understory is comprised of a mixture of shrubs, forbs and graminoids tolerant of warmer and drier soil conditions than those found on the more mesic to wet spruce-fir system. The drier occurrences of this system are especially common on steep slopes at upper elevations throughout the eastern Rocky Mountains, whereas the more mesic occurrences form substantial cover west of the Continental Divide in the Flathead, Lolo, Bitterroot and Kootenai river drainages.



2%

## Wetland and Riparian Systems

Wet meadow

### Alpine-Montane Wet Meadow

These moderate-to-high-elevation systems are found throughout the Rocky Mountains, dominated by herbaceous species found on wetter sites with very low-velocity surface and subsurface flows.

Occurrences range in elevation from montane to alpine at 1,000 to 3,353 meters (3,280-11,000 feet). This system typically occurs in cold, moist basins, seeps and alluvial terraces of headwater streams or as a narrow strip adjacent to alpine lakes (Hansen et al., 1996). Wet meadows are typically found on flat areas or gentle slopes, but may also occur on sub-irrigated sites with slopes up to 10 percent. In alpine regions, sites are typically small depressions located below late-melting snow patches or on snowbeds. The growing season may only last for one to two months. Soils of this system may be mineral or organic. In either case, soils show typical hydric soil characteristics, including high organic content and/or low chroma and redoximorphic features. This system often occurs as a mosaic of several plant associations, often dominated by graminoids such as tufted hairgrass (*Deschampsia caespitosa*), and a diversity of montane or alpine sedges such as small-head sedge (*Carex illota*), small-winged sedge (*Carex microptera*), black alpine sedge (*Carex nigricans*), Holm's Rocky Mountain sedge (*Carex scopulorum*) shortstalk sedge (*Carex podocarpa*) and Payson's sedge (*Carex paysonis*). Drummond's rush (*Juncus drummondii*), Merten's rush (*Juncus mertensianus*), and high elevation bluegrasses (*Poa arctica* and *Poa alpina*) are often present. Forbs such as arrow-leaf groundsel (*Senecio triangularis*), slender-sepal marsh marigold (*Caltha leptosepala*), and spreading globeflower (*Trollius laxus*) often form high cover in higher elevation meadows. Wet meadows are associated with snowmelt and are usually not subjected to high disturbance events such as flooding.

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## Recently Disturbed or Modified

2%

### Harvested Forest

#### Harvested forest-shrub regeneration

Land cover has been modified by logging. New growth is primarily shrubs.

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2%

## Shrubland, Steppe and Savanna Systems

### Sagebrush Steppe

#### Montane Sagebrush Steppe

This system dominates the montane and subalpine landscape of southwestern Montana from valley bottoms to subalpine ridges and is found as far north as Glacier National Park. It can also be seen in the island mountain ranges of the north-central and south-central portions of the state. It primarily occurs on deep-soiled to stony flats, ridges, nearly flat ridgetops, and mountain slopes. In general, this system occurs in areas of gentle topography, fine soils, subsurface moisture or mesic conditions, within zones of higher precipitation and areas of snow accumulation. It occurs on all slopes and aspects, variable substrates and all soil types. The shrub component of this system is generally dominated by mountain big sagebrush (*Artemisia tridentata* ssp. *vaseyana*). Other co-dominant shrubs include silver sagebrush (*Artemisia cana* ssp. *viscidula*), subalpine big sagebrush (*Artemisia tridentata* ssp. *spiciformis*), three tip sagebrush (*Artemisia tripartita* ssp. *tripartita*) and antelope bitterbrush (*Purshia tridentata*). Little sagebrush (*Artemisia arbuscula* ssp. *arbuscula*) shrublands are only found in southwestern Montana on sites with a perched water table. Wyoming big sagebrush (*Artemisia tridentata* ssp. *wyomingensis*) sites may be included within this system if occurrences are at montane elevations, and are associated with montane graminoids such as Idaho fescue (*Festuca idahoensis*), spike fescue (*Leucopoa kingii*), or poverty oatgrass (*Danthonia intermedia*). In areas where sage has been eliminated by human activities like burning, disking or poisoning, other shrubs may be dominant, especially rubber rabbitbrush (*Ericameria nauseosa*), and green rabbitbrush (*Chrysothamnus viscidiflorus*). Because of the mesic site conditions, most occurrences support a diverse herbaceous undergrowth of grasses and forbs. Shrub canopy cover is extremely variable, ranging from 10 percent to as high as 40 or 50 percent.

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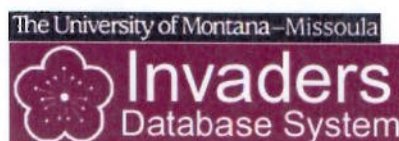
- [Additional Limited Landcover](#)

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Township 005N013W

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Tuesday, November 16, 2010

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**Query By Area****5 Northwestern States:**

- [Query by Name](#)
- [Query From List](#)
- [Query by Area](#)
- [Query From Map](#)
- [Links Database](#)

You queried the area of Deer Lodge County in Montana from 1875 to 2010 for All Species.

**Results of Query****Other Services:**

- [INVADERS Data Entry](#)
- [Weed Alert Service](#)
- [State/Provincial Noxious Weed Lists](#)
- [Biocontrol Service](#)
- [Blackfoot Weed Management](#)
- [ID/MT Risk Assessment](#)

There are 122 species for this query.

Exotic Noxious

60 18

Database queried on: November 16, 2010 Database last updated on: November 9, 2010

Genus	Species	Common Name	Exotic	Noxious In
Aconitum	columbianum	Columbian monkshood		
Actaea	rubra	red baneberry		
Agoseris	lackschewitzii	pink agoseris		
Agropyron	caninum	bearded wheatgrass		
Agropyron	repens	quackgrass	×	OR,WY
Agropyron	spicatum	bluebunch wheatgrass		
Agrostis	stolonifera	creeping bentgrass	×	
Allotropa	virgata	candystick		
Alnus	incana	mountain alder		
Amaranthus	retroflexus	redroot pigweed		
Antennaria	densifolia	tufted pussytoes		
Arabis	divaricarpa	spreadingpod rockcress		
Arabis	drummondii	Drummond's rockcress		
Arabis	glabra	tower mustard	×	
Arabis	lemmonii	Lemmon's rockcress		
Arabis	lyallii	Lyall's rockcress		
Arabis	microphylla	littleleaf rockcress		
Botrychium	hesperium	camomile grape fern		
Botrychium	paradoxum	peculiar moonwort		
Brassica	sp.	mustard		
Bromus	inermis	smooth brome	×	
Bromus	japonicus	Japanese brome	×	
Bromus	tectorum	downy brome	×	
Campanula	rapunculoides	creeping bellflower	×	
Campanula	rotundifolia	harebell		
Campanula	spp.	bellflower		
Cardaria	chalapensis	chalapa hoarycress	×	
Cardaria	draba	hoary cress	×	ID,MT,OR,WA,WY
Carduus	nutans	musk thistle	×	ID,OR,WA,WY
Carex	maritima	maritime sedge		
Carex	neurophora	alpine nerved sedge		
Carum	carvi	common caraway	×	
Castilleja	exilis	annual paintbrush		
Centaurea	diffusa	diffuse knapweed	×	ID,MT,OR,WA,WY
Centaurea	maculosa	spotted knapweed	×	ID,MT,OR,WA,WY
Centaurea	repens	Russian knapweed	×	ID,MT,OR,WA,WY
Cerastium	vulgatum	mouseear chickweed	×	

Chenopodium	album	common lambsquarters	×	
Chrysanthemum	leucanthemum	oxeye daisy	×	MT,WA,WY
Cirsium	arvense	Canada thistle	×	ID,MT,OR,WA,WY
Convolvulus	arvensis	field bindweed	×	ID,MT,OR,WA,WY
Cynoglossum	officinale	houndstongue	×	MT,OR,WA,WY
Delphinium	bicolor	little larkspur		
Draba	fladnizensis	Austrian whitlow wort		
Equisetum	arvense	field horsetail		OR
Erigeron	acris	bitter fleabane		
Erigeron	caespitosus	tufted fleabane		
Erigeron	compositus	cut leaved daisy		
Erigeron	coulteri	Coulter's fleabane		
Erigeron	formosissimus	beautiful daisy		
Erigeron	lonchophyllus	spear leaf fleabane		
Euphorbia	esula	leafy spurge	×	ID,MT,OR,WA,WY
Gentiana	prostrata	moss gentian		
Gutierrezia	sarothrae	broom snakeweed		
Gypsophila	paniculata	baby's breath	×	WA
Helianthus	annuus	common sunflower		
Hordeum	jubatum	foxtail barley		
Humulus	lupulus	common hop		
Hyoscyamus	niger	black henbane	×	ID,WA
Ipomoea	purpurea	tall morningglory	×	
Lactuca	serriola	prickly lettuce	×	
Lamium	amplexicaule	henbit	×	
Lappula	echinata	European sticktight	×	
Lepidium	perfoliatum	clasping pepperweed	×	
Lepidium	ruderales	narrowleaf pepperweed	×	
Lewisia	pygmaea	dwarf lewisia		
Linaria	dalmatica	dalmatian toadflax	×	ID,MT,OR,WA,WY
Linaria	vulgaris	yellow toadflax	×	ID,MT,OR,WA,WY
Lonicera	tatarica	Tatarian honeysuckle	×	
Lycium	halimifolium	matrimonyvine	×	
Marrubium	vulgare	white horehound	×	
Melilotus	officinalis	yellow sweetclover	×	
Mentzelia	laevicaulis	blazing star mentzelia		
Mimulus	guttatus	common monkey flower		
Nasturtium	officinale	watercress	×	
Onobrychis	viciifolia	sainfoin	×	
Oryzopsis	contracta	contracting ricegrass		
Pedicularis	contorta	coiled beak lousewort		
Penstemon	lemhiensis	Lemhi penstemon		
Poa	compressa	Canada bluegrass	×	
Poa	pratensis	Kentucky bluegrass	×	
Polystichum	kruckebergii	Kruckeberg's sword fern		
Populus	alba	white poplar	×	
Potentilla	concinna	early cinquefoil		
Potentilla	norvegica	rough cinquefoil		
Primula	parryi	Parry's primrose		
Ranunculus	acris	tall buttercup	×	MT
Ranunculus	hyperboreus	high northern buttercup		
Ranunculus	orthorhynchus	straightbeak buttercup		
Ranunculus	repens	creeping buttercup	×	
Ranunculus	testiculatus	bur buttercup	×	
Ranunculus	verecundus	modest buttercup		
Ribes	triste	wild red currant		

Rosa	eglanteria	sweetbriar rose	×	
Rubus	laciniatus	cutleaf blackberry	×	
Rumex	crispus	curly dock	×	
Salix	alba	white willow	×	
Salix	cascadensis	cascade willow		
Salix	wolfii	Wolf's willow		
Saussurea	weberi	Weber's sawwort		
Saxifraga	apetala	tiny swamp saxifrage		
Saxifraga	tempestiva	storm saxifrage		
Sedum	stenopetalum	wormleaf stonecrop		
Selaginella	selaginoides	lesser club moss		
Silene	dichotoma	hairy catchfly	×	
Sisymbrium	altissimum	tall tumbled mustard	×	
Solanum	rostratum	buffalobur		ID,OR,WA
Stellaria	crassifolia	thickleaved starwort		
Stellaria	media	chickweed	×	
Taraxacum	eriphorum	Rocky Mountain dandelion		
Taraxacum	officinale	dandelion	×	
Thlaspi	arvense	field pennycress	×	
Tonestus	pygmaeus	pygmy goldenweed		
Tragopogon	dubius	western salsify	×	
Tragopogon	pratensis	meadow salsify	×	
Trifolium	hybridum	alsike clover	×	
Trifolium	pratense	red clover	×	
Trifolium	repens	white clover	×	
Valeriana	officinalis	common valerian	×	
Verbascum	thapsus	common mullein	×	
Veronica	serpyllifolia	thymeleaf speedwell	×	
Xerophyllum	tenax	common beargrass		

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