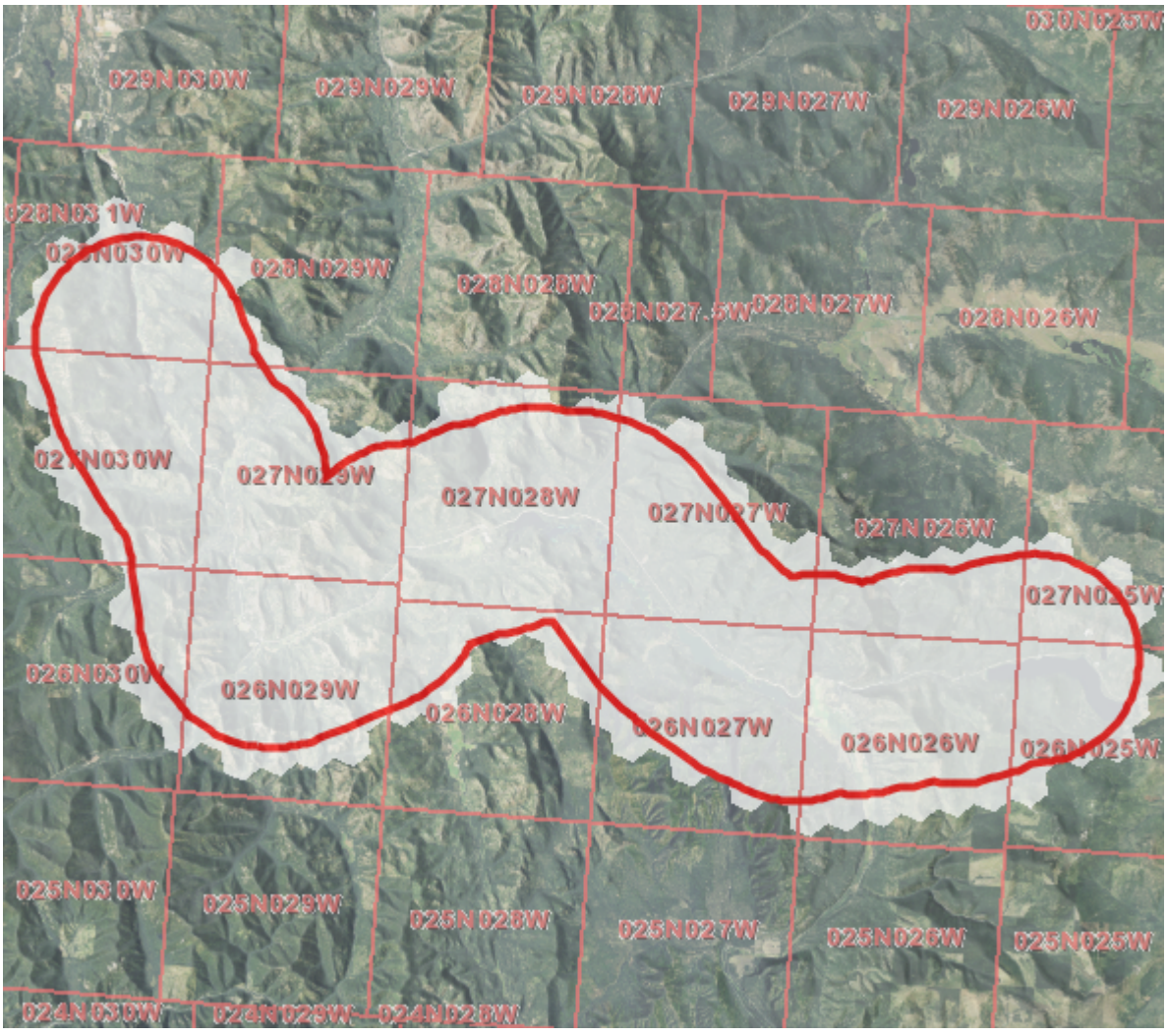
Attachment 8: Montana Species of Concern

Environmental Summary

MONTANA
Natural Heritage Program

1515 East 6th Avenue
Helena, MT 59620
(406) 444-0241
mtnhp.org

Latitude	Longitude
47.93566	-114.81075
48.23702	-115.50226



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The Montana Natural Heritage Program is a program of the Montana State Library's Natural Resource Information System. It is operated as a special program under the Office of the Vice President for Research and Creative Scholarship at the University of Montana, Missoula.

The Montana Natural Heritage Program is part of NatureServe – a network of over 80 similar programs in states, provinces and nations throughout the Western Hemisphere, working to provide comprehensive status and distribution information for species and ecosystems.

Montana Natural Heritage Program · Montana State Library · University of Montana · NatureServe

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Introduction to Environmental Summary Report

The Environmental Summary report for your area of interest consists of introductory and related materials in this PDF and an Excel workbook with worksheets summarizing information managed in the Montana Natural Heritage Program's (MTNHP) databases for: (1) species occurrences; (2) other observed species without Species Occurrences; (3) other species potentially present based on their range, presence of associated habitats, or predictive distribution model output if available; (4) structured surveys (organized efforts following a protocol capable of detecting one or more species); (5) land cover mapped as ecological systems; (6) wetland and riparian mapping; (7) land management categories; and (8) biological reports associated with plant and animal observations. In order to do this in a consistent manner across Montana and allow for rapid delivery of summaries, we have intersected this information with a uniform grid of hexagons that have been used for planning efforts across the western United States (e.g. Western Association of Fish and Wildlife Agencies - Crucial Habitat Assessment Tool). Each hexagon is one square mile in area and approximately one kilometer in length on each side. Summary information for each data layer is then stored with each hexagon and those summaries are added up to an overall summary for the report area you have requested. Users should be aware that summaries do not correspond to the exact boundaries of the polygon they have specified, but instead are a summary across all hexagons intersected by the polygon they specified.

In presenting this information, MTNHP is working towards assisting the user with rapidly assessing the known or potential species and biological communities, land management categories, and biological reports associated with the report area. We remind users that this information is likely incomplete and may be inaccurate as surveys to document species are lacking in many areas of the state, species' range polygons often include regions of unsuitable habitat, methods of predicting the presence of species or communities are constantly improving, and information is constantly being added and updated in our databases. **Field verification by professional biologists of the absence or presence of species and biological communities in a report area will always be an important obligation of users of our data. Users are encouraged to only use this environmental summary report as a starting point for more in depth analyses and are encouraged to contact state, federal, and tribal resource management agencies for additional data or management guidelines relevant to your efforts. Please see the Appendix for introductory materials to each section of the report, additional information resources, and a list of relevant agency contacts.**

MONTANA Natural Heritage Program

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

Legend

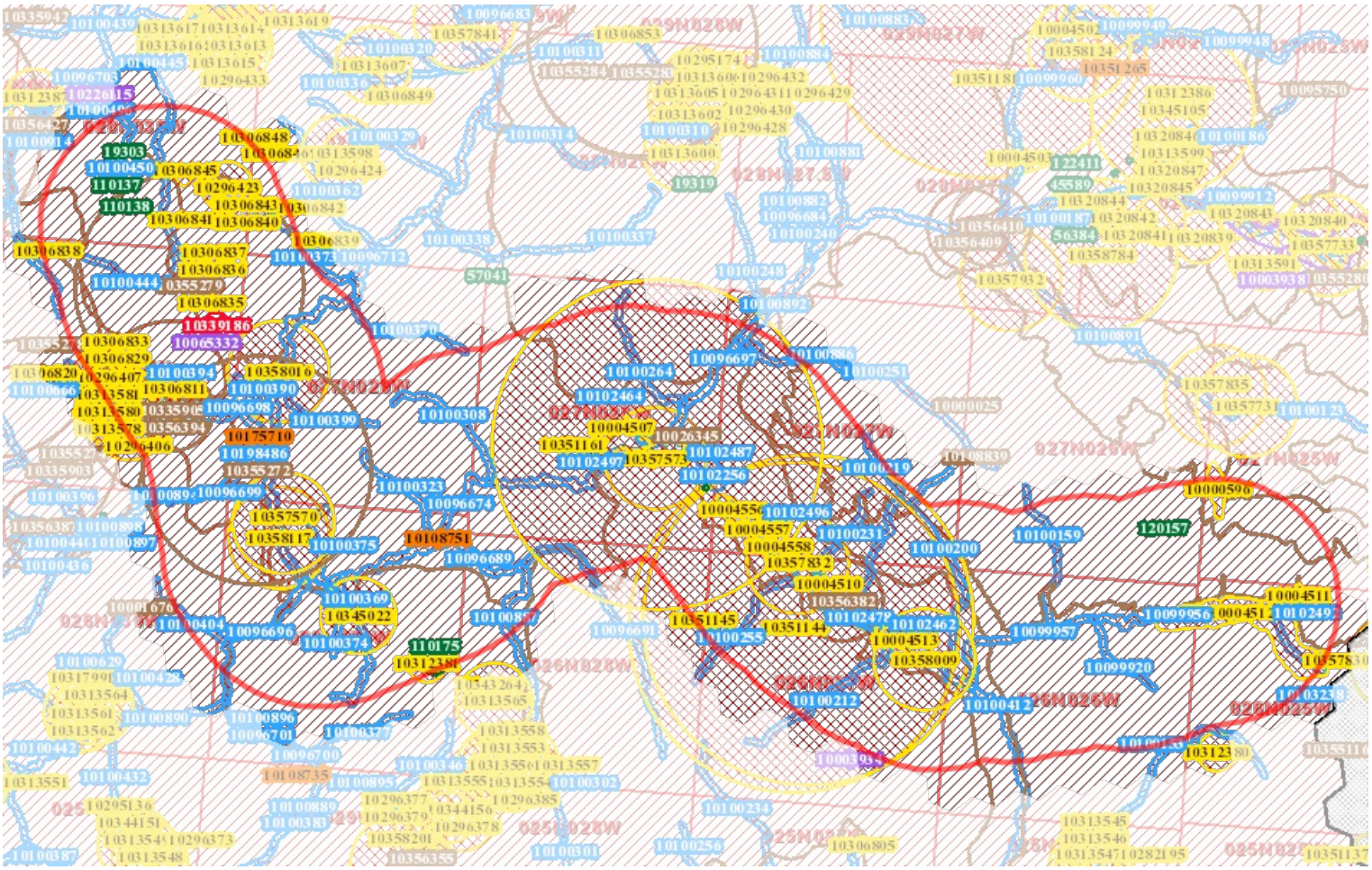
Model Icons	Habitat Icons	Range Icons	Num Obs
N Suitable (native range)	C Common	I Introduced Range	Count of obs with 'good precision' (<=1000m)
O Optimal Suitability	O Occasional	Y Year-round Range	+ indicates additional 'poor precision' obs (1001m-10,000m)
M Moderate Suitability		S Summer Range	
L Low Suitability		W Winter Range	
I Suitable (introduced range)		M Migratory Range	
		H Historic Range	

Latitude	Longitude
47.93566	-114.81075
48.23702	-115.50226

Species Summary

Filtered by:

MT_Status='Species of Concern','Special Status','Important Animal Habitat','Potential SOC'



Species Occurrences

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Westslope Cutthroat Trout *(Oncorhynchus clarkii lewisi)* SOC	45	+		Not Assigned	Y S W H

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G4T4** State: **S2** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: May 08, 2015)

Predictive Models: N 51% Suitable (native range) (deductive)

F - Torrent Sculpin *(Cottus rhotheus)* SOC	10	11 +		Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

Predictive Models: N 19% Suitable (native range) (deductive)

F - Columbia River Redband Trout *(Oncorhynchus mykiss gairdneri)* SOC	13	+		Not Assigned	Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G5T4** State: **S1** USFS: **Sensitive - Known on Forests (KOOT)** FWP SWAP: **SGCN1**

Delineation Criteria 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. (Last Updated: May 08, 2015)

Predictive Models: N 14% Suitable (native range) (deductive)

F - Bull Trout *(Salvelinus confluentus)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G4** State: **S2** USFWS: **LT** USFS: **Threatened, Critical Habitat on Forests (BD, BRT, FLAT, HLC, KOOT, LOLO)** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN2**

Delineation Criteria Stream reaches and standing water bodies where the species is believed to be present based on the professional judgement of a fisheries biologist, potentially supported by habitat assessment, direct capture, or 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. (Last Updated: Jul 12, 2016)

Predictive Models: N 10% Suitable (native range) (deductive)

B - Common Loon *(Gavia immer)* **SOC** 9 60 + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (FLAT, KOOT, LOLO)** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria Standing water bodies with confirmed nesting and brood rearing buffered by 100 meters in order to reflect importance of adjacent terrestrial habitats to breeding success. Where breeding has been documented on extremely large water bodies, only the portion of the water body with territorial activity is delineated. (Last Updated: Dec 02, 2016)

Predictive Models: N 9% Suitable (native range) (deductive) **Associated Habitats:** C 2% Common

F - Pygmy Whitefish *(Prosopium coulteri)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3, SGIN**

Delineation Criteria 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, 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. (Last Updated: May 08, 2015)

Predictive Models: N 1% Suitable (native range) (deductive)

B - Pacific Wren *(Troglodytes pacificus)* **SOC** 2 5 Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Observations with evidence of breeding activity buffered by a minimum distance of 300 meters in order to be conservative about encompassing home ranges and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: O 1% Optimal (inductive), M 90% Moderate (inductive), L 9% Low (inductive) **Associated Habitats:** C 70% Common, O 1% Occasional

B - Black Tern *(Chlidonias niger)* **SOC** 1 1 S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4G5** State: **S3B** USFWS: **MBTA; BCC11** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Standing water bodies with confirmed nesting areas buffered by 100 meters in order to reflect importance of adjacent terrestrial habitats to breeding success. (Last Updated: Jan 05, 2016)

Predictive Models: O 1% Optimal (inductive), M 8% Moderate (inductive), L 35% Low (inductive) **Associated Habitats:** C 2% Common, O 1% Occasional

M - Canada Lynx *(Lynx canadensis)* **SOC** 1 + Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

USFS: **Threatened on Forests (BD, BRT)**

Species of Concern Global: **G5** State: **S3** USFWS: **LT** **Threatened, Critical Habitat on Forests (CG, FLAT, HLC, KOOT, LOLO)** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN3**

Delineation Criteria Areas designated as Critical Habitat for the species by the U.S. Fish and Wildlife Service on September 12, 2014 because they currently contain physical and biological features (e.g. boreal forests with snowshoe hare) essential to the conservation of the species and state and other lands within the outer boundaries of USFWS Critical Habitat polygons. (Last Updated: Dec 15, 2014)

Predictive Models: M 95% Moderate (inductive), L 5% Low (inductive) **Associated Habitats:** C 76% Common, O 6% Occasional

B - Evening Grosbeak *(Coccothraustes vespertinus)* **SOC** 3 4 Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**

Delineation Criteria 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 1,000 meters in order to encompass the maximum foraging distance from nests reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 92% Moderate (inductive), L 8% Low (inductive) **Associated Habitats:** C 83% Common, O 2% Occasional

B - Varied Thrush *(Ixoreus naevius)* **SOC** 6 9 S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**

Delineation Criteria 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 225 meters in order to encompass the reported minimum stand size occupied by breeding pairs and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 85% Moderate (inductive), L 15% Low (inductive) **Associated Habitats:** C 83% Common, O 1% Occasional

B - Cassin's Finch *(Haemorhous cassinii)* **SOC** 2 2 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA; BCC10** FWP SWAP: **SGCN3** PIF: **3**

Delineation Criteria Observations with evidence of breeding activity buffered by a minimum distance of 300 meters in order to be conservative about encompassing the courtship and foraging distance from nesting areas and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 85% Moderate (inductive), L 15% Low (inductive) **Associated Habitats:** C 71% Common

B - Pileated Woodpecker *(Dryocopus pileatus)* **SOC** 4 9 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Observations with evidence of breeding activity buffered by a minimum distance of 1,500 meters in order to be conservative about encompassing home ranges and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Mar 24, 2017)

Predictive Models: M 80% Moderate (inductive), L 20% Low (inductive) **Associated Habitats:** C 71% Common, O 5% Occasional

B - Brown Creeper *(Certhia americana)* **SOC** 7 13 + Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria Observations with evidence of breeding activity buffered by a minimum distance of 300 meters in order to be conservative about encompassing home ranges and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 72% Moderate (inductive), L 28% Low (inductive) **Associated Habitats:** C 71% Common, O 1% Occasional

B - Flammulated Owl *(Psiloscops flammeolus)* **SOC** 42 52 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
USFS: **Sensitive - Known on Forests (BD, BRT, FLAT, HLC, KOOT, LOLO)**
Sensitive - Suspected on Forests (CG)

Delineation Criteria 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 300 meters in order to encompass the maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 28, 2016)

Predictive Models: M 59% Moderate (inductive), L 41% Low (inductive) **Associated Habitats:** C 61% Common, O 14% Occasional

M - Grizzly Bear *(Ursus arctos)* **SOC** 1 9 + Y S W H

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S2S3** USFWS: **PS: LT; XN; DM** USFS: **Threatened on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2-3**

Delineation Criteria U.S. Fish and Wildlife Service recovery zone boundaries for the Northern Continental Divide and Cabinet-Yaak populations which are listed as Threatened, the Greater Yellowstone Ecosystem distinct population segment which has been delisted, and the Bitterroot recovery area where animals would be listed as Threatened, but experimental nonessential if introduced. (Last Updated: Aug 28, 2014)

Predictive Models: M 40% Moderate (inductive), L 60% Low (inductive) **Associated Habitats:** C 92% Common, O 3% Occasional

B - Northern Goshawk *(Accipiter gentilis)* **SOC** 2 4 + Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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. (Last Updated: Mar 24, 2017)

Predictive Models: M 30% Moderate (inductive), L 70% Low (inductive) **Associated Habitats:** C 69% Common, O 1% Occasional

A - Western Toad *(Anaxyrus boreas)* **SOC** 3 7 + Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S2** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria Standing water bodies or portions of large water bodies with confirmed evidence of reproduction (calling adults, eggs, larvae or new metamorphs) buffered by 100 meters in order to reflect importance of adjacent terrestrial habitats to survival of breeding adults and newly metamorphosed juveniles. (Last Updated: Jun 30, 2017)

Predictive Models: M 29% Moderate (inductive), L 71% Low (inductive) **Associated Habitats:** C 88% Common, O 10% Occasional

B - Bald Eagle *(Haliaeetus leucocephalus)* **SSS** 8 65 + Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Special Status Species Global: **G5** State: **S4** USFWS: **DM; BGEPA; MBTA; BCC10; BCC11; BCC17** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** PIF: **2**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 2,000 meters in order to be conservative about encompassing the breeding territory and area commonly used for renesting and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jul 21, 2017)

Predictive Models: M 28% Moderate (inductive), L 37% Low (inductive) **Associated Habitats:** C 65% Common, O 18% Occasional

M - Fisher *(Pekania pennanti)* **SOC** 1 1 + Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: Aug 27, 2014)

Predictive Models: M 20% Moderate (inductive), L 74% Low (inductive) **Associated Habitats:** C 69% Common, O 5% Occasional

R - Northern Alligator Lizard *(Elgaria coerulea)* **SOC** 1 1 Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3, SGIN**

Delineation Criteria Confirmed breeding area based on the presence of a resident animal of any age. Point observation location is buffered by a minimum distance of 200 meters in order to encompass habitats supporting other individuals and probable maximum home range sizes. Otherwise the point observation is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 19% Moderate (inductive), L 65% Low (inductive) **Associated Habitats:** C 80% Common, O 5% Occasional

M - Little Brown Myotis *(Myotis lucifugus)* **SOC** 3 2 + Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, or definitively identified roosting individuals) of adults or juveniles. Point observation location is buffered by a distance of 1,600 meters in order to encompass the greater than 1,500 meters foraging distance reported for the species in New Brunswick, Canada and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When cave locations are involved, point observations are mapped in the center of a one-square mile hexagon to protect the exact location of the cave entrance as per the Federal Cave Resource Protection Act and associated regulations (U.S. Code Title 16 Chapter 63, Code of Federal Regulations Title 43 Subtitle A Part 37). The outer edges of the hexagon are then buffered by a distance of 1,600 meters and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 14, 2017)

Predictive Models: M 15% Moderate (inductive), L 65% Low (inductive) **Associated Habitats:** C 86% Common, O 12% Occasional

M - Hoary Bat *(Lasiurus cinereus)* **SOC** 2 1 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3G4** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, and definitively identified roosting individuals) of adults or juveniles during the active season. Point observation location is buffered by a minimum distance of 3,500 meters in order to be conservative about encompassing the maximum reported foraging distance for the congeneric Lasiurus borealis and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 20, 2017)

Predictive Models: M 13% Moderate (inductive), L 82% Low (inductive) **Associated Habitats:** C 74% Common, O 19% Occasional

M - Townsend's Big-eared Bat *(Corynorhinus townsendii)* **SOC** 5 2 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, and definitively identified roosting individuals) of adults or juveniles. Point observation location is buffered by a distance of 4,500 meters in order to encompass the 95% confidence interval for nightly foraging distance reported for the species in California and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When cave locations are involved, point observations are mapped in the center of a one-square mile hexagon to protect the exact location of the cave entrance as per the Federal Cave Resource Protection Act and associated regulations (U.S. Code Title 16 Chapter 63, Code of Federal Regulations Title 43 Subtitle A Part 37). The outer edges of the hexagon are then buffered by a distance of 4,500 meters and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 14, 2017)

Predictive Models: M 10% Moderate (inductive), L 73% Low (inductive) **Associated Habitats:** C 90% Common, O 4% Occasional

B - Great Blue Heron *(Ardea herodias)* **SOC** 3 4 + Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 6,500 meters in order to be conservative about encompassing the areas commonly used for foraging near the breeding colony and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 30, 2017)

Predictive Models: M 9% Moderate (inductive), L 30% Low (inductive) **Associated Habitats:** C 2% Common

B - Lewis's Woodpecker *(Melanerpes lewis)* **SOC** 1 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S2B** USFWS: **MBTA; BCC10; BCC17** FWP SWAP: **SGCN2** PIF: **2**

Delineation Criteria 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 300 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. (Last Updated: Jun 22, 2017)

Predictive Models: M 8% Moderate (inductive), L 58% Low (inductive) **Associated Habitats:** C 33% Common, O 38% Occasional

M - Wolverine *(Gulo gulo)* **SOC** 1 1 Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3** USFWS: **P** USFS: **Proposed on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy supported by recent (post-1980), nearby (within 10 kilometers) observations of adults or juveniles. Tracking regions were defined by areas of primary habitat and adjacent female dispersal habitat as modeled by Inman et al. (2013). These regions were buffered by 1 kilometer in order to link smaller areas and account for potential inaccuracies in independent variables used in the model. (Last Updated: Sep 03, 2014)

Predictive Models: M 1% Moderate (inductive), L 97% Low (inductive) **Associated Habitats:** C 72% Common, O 8% Occasional

V - Schoenoplectus subterminalis *(Water Bulrush)* **SOC** 1 1 Not Available

View in Field Guide | View Associated Habitat

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (FLAT, HLC, KOOT, LOLO)** MNPS: **2**

Delineation Criteria 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.

Associated Habitats: C 2% Common

V - Drosera anglica *(English Sundew)* **SOC** 1 2 Not Available

View in Field Guide View Associated Habitat

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** MNPS: **2**

Delineation Criteria 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.

Associated Habitats: C 1% Common

V - Eriophorum gracile *(Slender Cottongrass)* **SOC** | 1 | 1 | Not Available

View in Field Guide View Associated Habitat

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (CG, FLAT, KOOT)** MNPS: **2**

Delineation Criteria 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.

Associated Habitats: C 1% Common

V - Scheuchzeria palustris *(Pod Grass)* **SOC** | 3 | 3 | Not Available

View in Field Guide View Associated Habitat

USFS: **Sensitive - Known on Forests (BD, FLAT, KOOT, LOLO)**

Species of Concern Global: **G5** State: **S3** **Sensitive - Suspected on Forests (BRT)** MNPS: **2**

Delineation Criteria 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.

Associated Habitats: C 1% Common

I - Margaritifera falcata *(Western Pearlshell)* **SOC** | 2 | 3 | Not Available | Not Assigned | Y S W

View in Field Guide View Range Maps

USFS: **Sensitive - Known on Forests (BD, BRT, CG, HLC, KOOT, LOLO)**

Species of Concern Global: **G5** State: **S2** **Sensitive - Suspected on Forests (FLAT)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria Stream reaches where the species presence has been confirmed through direct capture. In order to reflect the importance of adjacent terrestrial habitats to survival, stream reaches are buffered 100 meters into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: Dec 10, 2014)

I - Isocapnia crinita *(Hooked Snowfly)* **SOC** | 1 | 1 | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G5** State: **S2**

Delineation Criteria 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. (Last Updated: Mar 22, 2016)

I - Isocapnia integra *(Alberta Snowfly)* **SOC** | 1 | 1 | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G4** State: **S2**

Delineation Criteria 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. (Last Updated: Mar 22, 2016)

V - Botrychium sp. (Non-SOC) *(Moonworts (Non-SOC))* **PSOC** | 8 | | Not Available | Not Assigned

View in Field Guide

Potential Species of Concern Global: **GNR** State: **SNR**

V - Botrychium sp. (SOC) *(Moonworts (SOC))* **SOC** | 1 | | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G1G3** State: **S1S3**

Delineation Criteria Mapped occurrences for Botrychiums are based on observations of one or more Botrychium species documented or reported for a site as opposed to indiviual species being mapped independently. Data is managed and presented in this format as a result of more than one Botrychium "species" commonly growing at a site, problems with reliably identifying Botrychiums to species and instability in Botrychium taxonomy. Botrychium Species of Concern locations have at least one reported observation of an individual Botrychium species listed by MTNHP as a Species of Concern.

B - Scorpidium scorpioides *(A Scorpidium Moss)* **SOC** | 1 | 1 | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (FLAT, HLC, KOOT)**

O - Bat Roost (Cave) *(Bat Roost (Cave))* **IAH** | 1 | | Not Available | Not Assigned

View in Field Guide

Important Animal Habitat Global: **GNR** State: **SNR**

Delineation Criteria Confirmed occupancy of a cave based on the documented presence of adults or juveniles of any bat species. Point observation locations are mapped in the center of a one-square mile hexagon to protect the exact location of the cave entrance as per the Federal Cave Resource Protection Act and associated regulations (U.S. Code Title 16 Chapter 63, Code of Federal Regulations Title 43 Subtitle A Part 37). The outer edges of the hexagon are then buffered by a distance of 4,500 meters in order to encompass the 95% confidence interval for nightly foraging distance reported for Townsendâ€™s Big-eared Bat (a resident Montana bat Species of Concern) and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 12, 2017)

Other Observed Species

	# Obs	Predictive Model	Associated Habitat	Range
M - Silver-haired Bat *(Lasionycteris noctivagans)* **PSOC**	4 +			Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G3G4** State: **S4**
Predictive Models: M 40% Moderate (inductive), L 60% Low (inductive) **Associated Habitats:** C 87% Common, O 1% Occasional

B - Boreal Owl *(Aegolius funereus)* **PSOC** 1 Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Predictive Models: M 30% Moderate (inductive), L 70% Low (inductive) **Associated Habitats:** C 79% Common, O 1% Occasional

B - Clark's Nutcracker *(Nucifraga columbiana)* **SOC** 1 Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 19% Moderate (inductive), L 81% Low (inductive) **Associated Habitats:** C 49% Common

B - American Bittern *(Botaurus lentiginosus)* **SOC** 1 S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 11% Moderate (inductive), L 25% Low (inductive) **Associated Habitats:** C 2% Common

B - Peregrine Falcon *(Falco peregrinus)* **SOC** 1 Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **DM; MBTA; BCC10; BCC11; BCC17**
USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 23% Low (inductive) **Associated Habitats:** C 15% Common, O 5% Occasional

F - Lake Trout *(Salvelinus namaycush)* **SOC** + Not Assigned I

View in Field Guide View Predicted Models View Range Maps
Species of Concern Global: **G5** State: **S2** FWP SWAP: **SGCN2**
Predictive Models: I 5% Suitable (introduced range) (deductive)

B - Rufous Hummingbird *(Selasphorus rufus)* **PSOC** 8 Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 95% Common, O 1% Occasional

M - Porcupine *(Erethizon dorsatum)* **PSOC** + Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** FWP SWAP: **SGIN**
Associated Habitats: C 83% Common

B - Western Screech-Owl *(Megascops kennicottii)* **PSOC** 2 Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G4G5** State: **S3S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 77% Common, O 1% Occasional

V - Botrychium crenulatum *(Wavy Moonwort)* **SOC** 2 Not Available

View in Field Guide View Associated Habitat
Species of Concern Global: **G3** State: **S3** USFS: **Sensitive - Known on Forests (BD, FLAT, HLC, KOOT, LOLO)** MNPS: **2**
Associated Habitats: C 34% Common

V - Botrychium montanum *(Mountain Moonwort)* **PSOC** 8 Not Available

View in Field Guide View Associated Habitat
Potential Species of Concern Global: **G3** State: **S3S4**
Associated Habitats: C 28% Common

B - Hooded Merganser *(Lophodytes cucullatus)* **PSOC** 1 + Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 4% Common, O 1% Occasional

B - Barrow's Goldeneye *(Bucephala islandica)* **PSOC** + Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 4% Common

A - Northern Leopard Frog *(Lithobates pipiens)* **SOC** + Not Available H

View in Field Guide View Associated Habitat View Range Maps
USFS: **Sensitive - Known on Forests (CG, HLC, KOOT)**
Species of Concern Global: **G5** State: **S1,S4** **Sensitive - Suspected on Forests (BRT, FLAT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN1**
Associated Habitats: C 4% Common

I - Aeshna constricta *(Lance-tipped Darner)* **PSOC** 1 Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 3% Common, O 1% Occasional

I - Aeshna eremita *(Lake Darner)* **PSOC** — 4 — Not Available — Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 3% Common, O 1% Occasional

B - Black-necked Stilt *(Himantopus mexicanus)* **SOC** — + — Not Available — M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 2% Common, O 2% Occasional

I - Argia emma *(Emma's Dancer)* **PSOC** — 2 — Not Available — Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 2% Common

I - Rhionaeschna multicolor *(Blue-eyed Darner)* **PSOC** — 1 — Not Available — Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 2% Common

B - Clark's Grebe *(Aechmophorus clarkii)* **SOC** — 1 — Not Available — M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 2% Common

I - Aeshna tuberculifera *(Black-tipped Darner)* **PSOC** — 1 — Not Available — Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 4% Occasional

I - Aeshna juncea *(Sedge Darner)* **PSOC** — 1 — Not Available — Y S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 2% Occasional

B - Harlequin Duck *(Histrionicus histrionicus)* **SOC** — 1 — Not Available — S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)** FWP SWAP: **SGCN2** PIF: **1**
Associated Habitats: C 1% Common, O 2% Occasional

V - Erigeron flabellifolius *(Fan-leaved Fleabane)* **SOC** — 1 — Not Available — Not Assigned

View in Field Guide
Species of Concern Global: **G3** State: **S3** MNPS: **3**

Other Potential Species

	Predictive Model	Associated Habitat	Range
M - Pygmy Shrew *(Sorex hoyi)* **SOC**			Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 49% Moderate (inductive), L 47% Low (inductive) **Associated Habitats:** C 83% Common, O 9% Occasional

M - Fringed Myotis *(Myotis thysanodes)* **SOC** — Y S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 20% Moderate (inductive), L 72% Low (inductive) **Associated Habitats:** C 85% Common, O 1% Occasional

B - Horned Grebe *(Podiceps auritus)* **SOC** — S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 16% Moderate (inductive), L 29% Low (inductive) **Associated Habitats:** C 2% Common, O 1% Occasional

B - Veery *(Catharus fuscescens)* **SOC** — S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 15% Moderate (inductive), L 49% Low (inductive) **Associated Habitats:** C 1% Common, O 64% Occasional

B - Great Gray Owl *(Strix nebulosa)* **SOC** — Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN** PIF: **3**
Predictive Models: M 10% Moderate (inductive), L 73% Low (inductive) **Associated Habitats:** C 72% Common, O 6% Occasional

A - Coeur d'Alene Salamander *(Plethodon idahoensis)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2** USFS: **Sensitive - Known on Forests (BRT, KOOT, LOLO)** FWP SWAP: **SGCN2, SGIN**
Predictive Models: M 10% Moderate (inductive), L 38% Low (inductive) **Associated Habitats:** C 29% Common, O 37% Occasional

B - Boreal Chickadee *(Poecile hudsonicus)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Predictive Models: M 6% Moderate (inductive), L 67% Low (inductive) **Associated Habitats:** C 68% Common, O 1% Occasional

B - Black Swift *(Cypseloides niger)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S1B** USFWS: **MBTA; BCC10** FWP SWAP: **SGCN1, SGIN** PIF: **2**
Predictive Models: M 6% Moderate (inductive), L 46% Low (inductive) **Associated Habitats:** C 2% Common

B - Black-backed Woodpecker *(Picoides arcticus)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Predictive Models: M 1% Moderate (inductive), L 95% Low (inductive) **Associated Habitats:** C 71% Common

M - Northern Bog Lemming *(Synaptomys borealis)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (BD, BRT, FLAT, HLC, KOOT, LOLO)** FWP SWAP: **SGCN2, SGIN**
Predictive Models: M 1% Moderate (inductive), L 71% Low (inductive) **Associated Habitats:** C 2% Common, O 30% Occasional

V - Silene spaldingii *(Spalding's Catchfly)* **SOC** Y

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G2** State: **S2** USFWS: **LT** USFS: **Threatened on Forests (FLAT, KOOT, LOLO)** MNPS: **1**
Predictive Models: M 1% Moderate (inductive), L 22% Low (inductive) **Associated Habitats:** C 8% Common, O 2% Occasional

R - Western Skink *(Plestiodon skiltonianus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3, SGIN**
Predictive Models: L 42% Low (inductive) **Associated Habitats:** C 53% Common

B - Golden Eagle *(Aquila chrysaetos)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **BGEPA; MBTA; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: L 29% Low (inductive) **Associated Habitats:** C 18% Common, O 1% Occasional

B - Yellow-billed Cuckoo *(Coccyzus americanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **PS: LT; MBTA; BCC10** USFS: **Threatened on Forests (BRT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN** PIF: **2**
Predictive Models: L 15% Low (inductive) **Associated Habitats:** C 1% Common

B - Bobolink *(Dolichonyx oryzivorus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: L 9% Low (inductive) **Associated Habitats:** C 12% Common, O 1% Occasional

M - Hoary Marmot *(Marmota caligata)* **PSOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4** FWP SWAP: **SGIN**
Predictive Models: L 6% Low (inductive) **Associated Habitats:** C 4% Common, O 8% Occasional

V - Pinus albicaulis *(Whitebark Pine)* **SOC** Y

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3G4** State: **S3** USFWS: **C** USFS: **Candidate on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE**
Predictive Models: L 5% Low (inductive) **Associated Habitats:** C 8% Common

B - Gray-crowned Rosy-Finch *(Leucosticte tephrocotis)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B,S5N** USFWS: **MBTA** FWP SWAP: **SGCN2, SGIN**
Predictive Models: L 2% Low (inductive) **Associated Habitats:** C 2% Common, O 1% Occasional

F - Arctic Grayling *(Thymallus arcticus)* **SOC** Not Assigned I

View in Field Guide View Predicted Models View Range Maps
Species of Concern Global: **G5** State: **S1** USFS: **Sensitive - Known on Forests (BD)** BLM: **SENSITIVE** FWP SWAP: **SGCN1**
Predictive Models: ! 4% Suitable (introduced range) (deductive)

B - Northern Hawk Owl *(Surnia ulula)* **SOC** Not Available W M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3, SGIN**
Associated Habitats: C 80% Common, O 1% Occasional

B - Tennessee Warbler *(Oreothlypis peregrina)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4B** USFWS: **MBTA**
Associated Habitats: C 76% Common

M - Water Vole *(Microtus richardsoni)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4**
Associated Habitats: C 73% Common, O 1% Occasional

I - Polygonia progne *(Gray Comma)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2**
Associated Habitats: C 18% Common, O 1% Occasional

B - Short-eared Owl *(Asio flammeus)* **PSOC** Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA; BCC11; BCC17** PIF: **3**
Associated Habitats: C 15% Common, O 2% Occasional

M - Bison *(Bos bison)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2** FWP SWAP: **SGCN2**
Associated Habitats: C 15% Common, O 1% Occasional

B - Ferruginous Hawk *(Buteo regalis)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 13% Common, O 1% Occasional

I - Euphydryas gillettii *(Gillette's Checkerspot)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2**
Associated Habitats: C 12% Common, O 13% Occasional

B - Sharp-tailed Grouse *(Tympanuchus phasianellus)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1,S4** FWP SWAP: **SGCN1** PIF: **2**
Associated Habitats: C 10% Common, O 2% Occasional

B - Long-billed Curlew *(Numenius americanus)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 8% Common, O 1% Occasional

B - Loggerhead Shrike *(Lanius ludovicianus)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 8% Common, O 1% Occasional

I - Colias gigantea *(Giant Sulphur)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3**
Associated Habitats: C 5% Common, O 1% Occasional

B - Trumpeter Swan *(Cygnus buccinator)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 4% Common, O 1% Occasional

B - Black-crowned Night-Heron *(Nycticorax nycticorax)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 4% Common

B - White-faced Ibis *(Plegadis chihi)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 4% Common

I - Limenitis arthemis *(Red-spotted Admiral)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 3% Common, O 3% Occasional

B - Franklin's Gull *(Leucophaeus pipixcan)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 3% Common, O 2% Occasional

I - Ophiogomphus occidentis *(Sinuous Snaketail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 3% Common

B - Common Tern *(Sterna hirundo)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 3% Common

I - Somatochlora albicincta *(Ringed Emerald)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 2% Common, O 2% Occasional

I - Somatochlora minor *(Ocellated Emerald)* **PSOC** Not Available Y S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 2% Common, O 2% Occasional

I - Somatochlora walshii *(Brush-tipped Emerald)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1S2**
Associated Habitats: C 2% Common, O 2% Occasional

I - Epitheca spinigera *(Spiny Baskettail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 2% Common, O 1% Occasional

B - Caspian Tern *(Hydroprogne caspia)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**
Associated Habitats: C 2% Common, O 1% Occasional

B - Forster's Tern *(Sterna forsteri)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 2% Common, O 1% Occasional

I - Gomphus graslinellus *(Pronghorn Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 2% Common

I - Ladona julia *(Chalk-fronted Corporal)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 2% Common

B - American White Pelican *(Pelecanus erythrorhynchos)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 2% Common

I - Aeshna sitchensis *(Zigzag Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common, O 10% Occasional

I - Argia vivida *(Vivid Dancer)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 3% Occasional

I - Leucorrhinia glacialis *(Crimson-ringed Whiteface)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3**
Associated Habitats: C 1% Common, O 3% Occasional

I - Aeshna subarctica *(Subarctic Darner)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1S2**
Associated Habitats: C 1% Common, O 2% Occasional

I - Enallagma clausum *(Alkali Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 2% Occasional

I - Leucorrhinia borealis *(Boreal Whiteface)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1**
Associated Habitats: C 1% Common, O 2% Occasional

I - Rhionaeschna californica *(California Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 2% Occasional

I - Somatochlora hudsonica *(Hudsonian Emerald)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 2% Occasional

I - Sympetrum madidum *(Red-veined Meadowhawk)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common, O 2% Occasional

I - Erebia discoidalis *(Red-disked Alpine)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

I - Somatochlora semicircularis *(Mountain Emerald)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common

B - Brewer's Sparrow *(Spizella breweri)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 1% Common

B - Alder Flycatcher *(Empidonax alnorum)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 1% Common

Latitude	Longitude
47.93566	-114.81075
48.23702	-115.50226

Structured Surveys

The Montana Natural Heritage Program (MTNHP) records information on the locations where more than 80 different types of well-defined repeatable survey protocols capable of detecting an animal species or suite of animal species have been conducted by state, federal, tribal, university, or private consulting biologists. Examples of structured survey protocols tracked by MTNHP include: visual encounter and dip net surveys for pond breeding amphibians, point counts for birds, call playback surveys for selected bird species, visual surveys of migrating raptors, kick net stream reach surveys for macroinvertebrates, visual encounter cover object surveys for terrestrial mollusks, bat acoustic or mist net surveys, pitfall and/or snap trap surveys for small terrestrial mammals, track or camera trap surveys for large mammals, and trap surveys for turtles. Whenever possible, photographs of survey locations are stored in MTNHP databases.

MTNHP does not typically manage information on structured surveys for plants; surveys for invasive species may be a future exception.

Within the report area you have requested, structured surveys are summarized by the number of each type of structured survey protocol that has been conducted, the number of species detections/observations resulting from these surveys, and the most recent year a survey has been conducted.

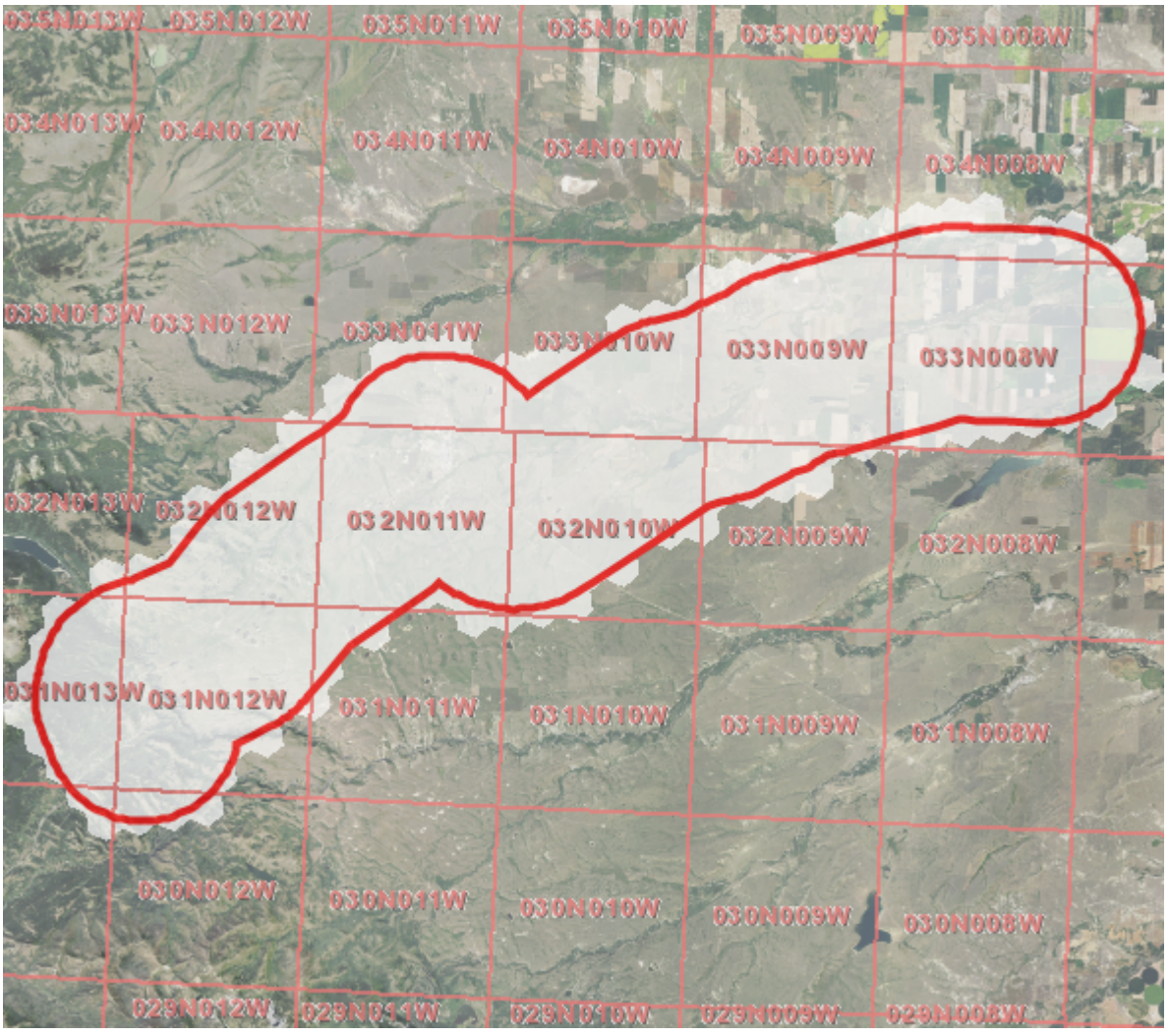
AR-Amphibian/Reptile Lentic *(Lentic Amphibian/Reptile Surveys)*	**Survey Count**: 37	**Obs Count**: 72	**Recent Survey**: 2006
B-Bald Eagle Nest *(Bald Eagle Nest Survey)*	**Survey Count**: 53	**Obs Count**: 49	**Recent Survey**: 2014
B-Common Loon Lake *(Common Loon Lake Survey)*	**Survey Count**: 14	**Obs Count**: 2	**Recent Survey**: 2000
B-Flammuled Owl Call Playback *(Flammulated Owl Call Playback Survey)*	**Survey Count**: 74	**Obs Count**: 32	**Recent Survey**: 2008
B-Goshawk Call Playback *(Northern Goshawk Call Playback Survey)*	**Survey Count**: 204	**Obs Count**:	**Recent Survey**: 2006
B-Point Count *(Bird Point Count)*	**Survey Count**: 78	**Obs Count**: 873	**Recent Survey**: 2008
I-Aquatic Invert Lotic Dipnet *(Invertebrate Lotic Site Dipnet and Visual Encounter Survey)*	**Survey Count**: 1	**Obs Count**: 6	**Recent Survey**: 2008
I-Bumble Bee *(Bumble Bee Collection Surveys)*	**Survey Count**: 4	**Obs Count**: 7	**Recent Survey**: 2015
I-Mussel *(Stream Mussel Survey)*	**Survey Count**: 11	**Obs Count**: 2	**Recent Survey**: 2012
I-Odonates/Butterfly VES *(Visual Encounter Survey for Damselfly/Dragonfly/Butterfly)*	**Survey Count**: 1	**Obs Count**: 4	**Recent Survey**: 2008
M-Bat Acoustic *(Bat Acoustic Survey)*	**Survey Count**: 6	**Obs Count**: 4	**Recent Survey**: 1995
M-Bat Hibernacula *(Bat Roost (Hibernacula) Survey)*	**Survey Count**: 2	**Obs Count**:	**Recent Survey**: 2013
M-Bat Mistnet *(Bat Mistnet Survey)*	**Survey Count**: 3	**Obs Count**: 11	**Recent Survey**: 2006
M-Bat Roost (Active Season) *(Bat Roost (Active Season) Survey)*	**Survey Count**: 2	**Obs Count**: 2	**Recent Survey**: 2013

Environmental Summary

MONTANA
Natural Heritage Program

1515 East 6th Avenue
Helena, MT 59620
(406) 444-0241
mtnhp.org

Latitude	Longitude
48.37094	-112.53118
48.68658	-113.30082



Suggested Citation
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for Latitude 48.37094 to 48.68658 and Longitude -112.53118 to -113.30082. Retrieved on 8/14/2017.

The Montana Natural Heritage Program is a program of the Montana State Library's Natural Resource Information System. It is operated as a special program under the Office of the Vice President for Research and Creative Scholarship at the University of Montana, Missoula.

The Montana Natural Heritage Program is part of NatureServe – a network of over 80 similar programs in states, provinces and nations throughout the Western Hemisphere, working to provide comprehensive status and distribution information for species and ecosystems.

Montana Natural Heritage Program · Montana State Library · University of Montana · NatureServe

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Introduction to Environmental Summary Report

The Environmental Summary report for your area of interest consists of introductory and related materials in this PDF and an Excel workbook with worksheets summarizing information managed in the Montana Natural Heritage Program's (MTNHP) databases for: (1) species occurrences; (2) other observed species without Species Occurrences; (3) other species potentially present based on their range, presence of associated habitats, or predictive distribution model output if available; (4) structured surveys (organized efforts following a protocol capable of detecting one or more species); (5) land cover mapped as ecological systems; (6) wetland and riparian mapping; (7) land management categories; and (8) biological reports associated with plant and animal observations. In order to do this in a consistent manner across Montana and allow for rapid delivery of summaries, we have intersected this information with a uniform grid of hexagons that have been used for planning efforts across the western United States (e.g. Western Association of Fish and Wildlife Agencies - Crucial Habitat Assessment Tool). Each hexagon is one square mile in area and approximately one kilometer in length on each side. Summary information for each data layer is then stored with each hexagon and those summaries are added up to an overall summary for the report area you have requested. Users should be aware that summaries do not correspond to the exact boundaries of the polygon they have specified, but instead are a summary across all hexagons intersected by the polygon they specified.

In presenting this information, MTNHP is working towards assisting the user with rapidly assessing the known or potential species and biological communities, land management categories, and biological reports associated with the report area. We remind users that this information is likely incomplete and may be inaccurate as surveys to document species are lacking in many areas of the state, species' range polygons often include regions of unsuitable habitat, methods of predicting the presence of species or communities are constantly improving, and information is constantly being added and updated in our databases. **Field verification by professional biologists of the absence or presence of species and biological communities in a report area will always be an important obligation of users of our data. Users are encouraged to only use this environmental summary report as a starting point for more in depth analyses and are encouraged to contact state, federal, and tribal resource management agencies for additional data or management guidelines relevant to your efforts. Please see the Appendix for introductory materials to each section of the report, additional information resources, and a list of relevant agency contacts.**

MONTANA Natural Heritage Program

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

Legend

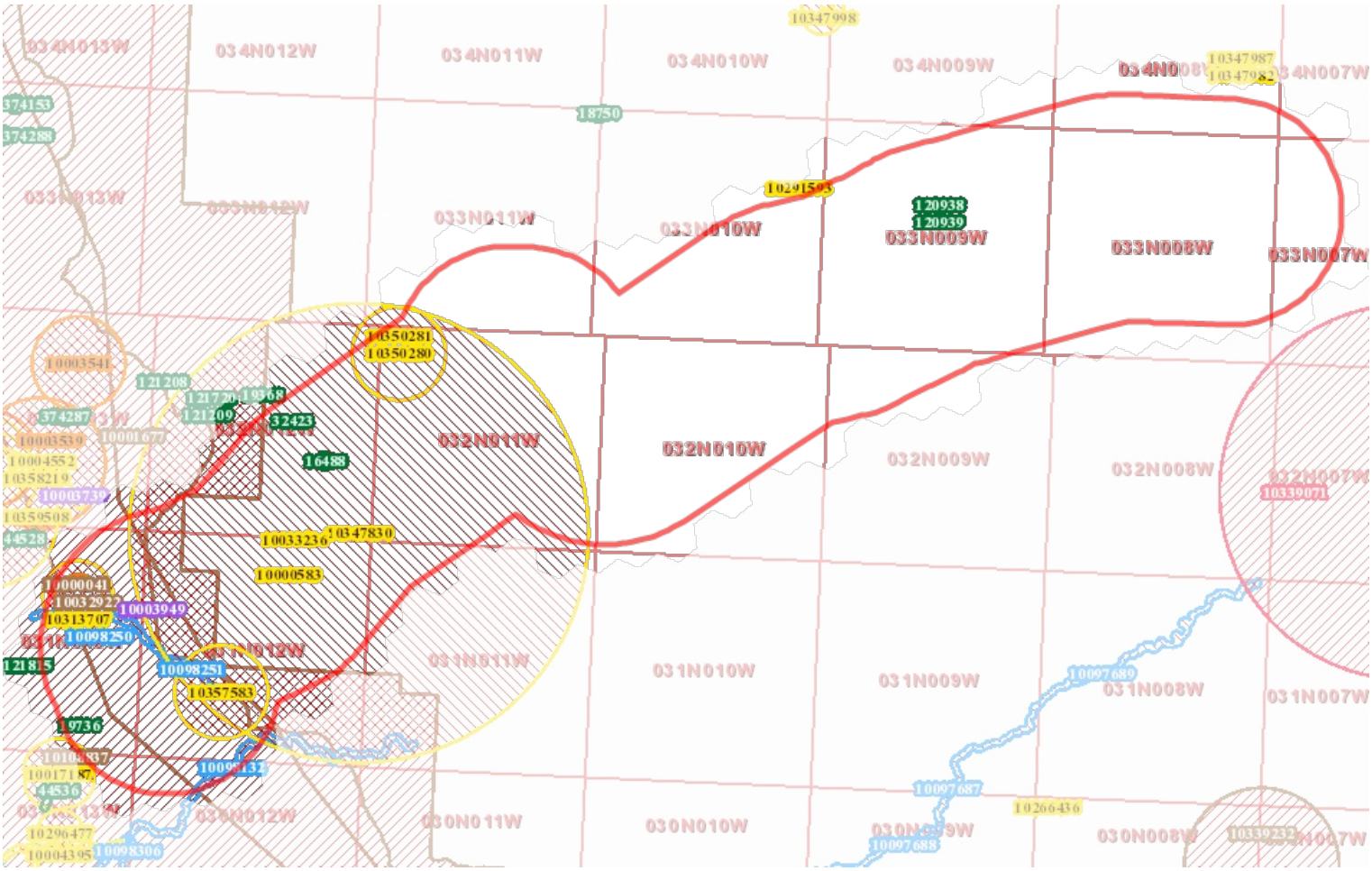
Model Icons	Habitat Icons	Range Icons	Num Obs
N Suitable (native range)	C Common	I Introduced Range	Count of obs with 'good precision' (<=1000m)
O Optimal Suitability	O Occasional	Y Year-round Range	+ indicates additional 'poor precision' obs (1001m-10,000m)
M Moderate Suitability		S Summer Range	
L Low Suitability		W Winter Range	
I Suitable (introduced range)		M Migratory Range	
		H Historic Range	

Latitude	Longitude
48.37094	-112.53118
48.68658	-113.30082

Species Summary

Filtered by:

MT_Status='Species of Concern','Special Status','Important Animal Habitat','Potential SOC'



Species Occurrences

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Westslope Cutthroat Trout *(Oncorhynchus clarkii lewisi)* SOC	3	+		Not Assigned	Y S W H

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G4T4** State: **S2** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: May 08, 2015)

Predictive Models: N 5% Suitable (native range) (deductive)

B - Black Tern *(Chlidonias niger)* SOC	2	8 +			S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4G5** State: **S3B** USFWS: **MBTA; BCC11** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Standing water bodies with confirmed nesting areas buffered by 100 meters in order to reflect importance of adjacent terrestrial habitats to breeding success. (Last Updated: Jan 05, 2016)

Predictive Models: O 3% Optimal (inductive), M 64% Moderate (inductive), L 26% Low (inductive) **Associated Habitats:** C 1% Common, O 1% Occasional

M - Canada Lynx *(Lynx canadensis)* SOC	1	+			Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

USFS: **Threatened on Forests (BD, BRT)**

Species of Concern Global: **G5** State: **S3** USFWS: **LT** **Threatened, Critical Habitat on Forests (CG, FLAT, HLC, KOOT, LOLO)** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN3**

Delineation Criteria Areas designated as Critical Habitat for the species by the U.S. Fish and Wildlife Service on September 12, 2014 because they currently contain physical and biological features (e.g. boreal forests with snowshoe hare) essential to the conservation of the species and state and other lands within the outer boundaries of USFWS Critical Habitat polygons. (Last Updated: Dec 15, 2014)

Predictive Models: O 1% Optimal (inductive), M 16% Moderate (inductive), L 45% Low (inductive) **Associated Habitats:** C 8% Common, O 5% Occasional

B - Long-billed Curlew *(Numenius americanus)* **SOC** 1 +

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 200 meters in order to approximate the breeding territory size reported for the species in Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 58% Moderate (inductive), L 30% Low (inductive) **Associated Habitats:** C 46% Common, O 13% Occasional

M - Grizzly Bear *(Ursus arctos)* **SOC** 1 11 +

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S2S3** USFWS: **PS: LT; XN; DM** USFS: **Threatened on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2-3**

Delineation Criteria U.S. Fish and Wildlife Service recovery zone boundaries for the Northern Continental Divide and Cabinet-Yaak populations which are listed as Threatened, the Greater Yellowstone Ecosystem distinct population segment which has been delisted, and the Bitterroot recovery area where animals would be listed as Threatened, but experimental nonessential if introduced. (Last Updated: Aug 28, 2014)

Predictive Models: M 39% Moderate (inductive), L 37% Low (inductive) **Associated Habitats:** C 54% Common, O 12% Occasional

B - American Bittern *(Botaurus lentiginosus)* **SOC** 1

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**

Delineation Criteria Wetlands and wetland complexes with evidence of breeding activity buffered by 1,000 meters in order to encompass reported home range sizes. Observations with poor spatial precision where an individual wetland or wetland complex cannot be identified with certainty will be buffered by the locational uncertainty and then an additional 1,000 meters out to a maximum distance of 10,000 meters. (Last Updated: Sep 04, 2014)

Predictive Models: M 35% Moderate (inductive), L 53% Low (inductive) **Associated Habitats:** C 6% Common

B - McCown's Longspur *(Rhynchophanes mccownii)* **SOC** 1 1 +

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 02, 2016)

Predictive Models: M 32% Moderate (inductive), L 38% Low (inductive) **Associated Habitats:** C 12% Common, O 61% Occasional

A - Western Toad *(Anaxyrus boreas)* **SOC** 1 2

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S2** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria Standing water bodies or portions of large water bodies with confirmed evidence of reproduction (calling adults, eggs, larvae or new metamorphs) buffered by 100 meters in order to reflect importance of adjacent terrestrial habitats to survival of breeding adults and newly metamorphosed juveniles. (Last Updated: Jun 30, 2017)

Predictive Models: M 21% Moderate (inductive), L 18% Low (inductive) **Associated Habitats:** C 17% Common, O 36% Occasional

M - Wolverine *(Gulo gulo)* **SOC** 1 2 +

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3** USFWS: **P** USFS: **Proposed on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy supported by recent (post-1980), nearby (within 10 kilometers) observations of adults or juveniles. Tracking regions were defined by areas of primary habitat and adjacent female dispersal habitat as modeled by Inman et al. (2013). These regions were buffered by 1 kilometer in order to link smaller areas and account for potential inaccuracies in independent variables used in the model. (Last Updated: Sep 03, 2014)

Predictive Models: M 13% Moderate (inductive), L 24% Low (inductive) **Associated Habitats:** C 7% Common, O 7% Occasional

M - Fisher *(Pekania pennanti)* **SOC** 1 1 +

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: Aug 27, 2014)

Predictive Models: M 12% Moderate (inductive), L 3% Low (inductive) **Associated Habitats:** C 10% Common, O 1% Occasional

B - Ferruginous Hawk *(Buteo regalis)* **SOC** 2 7 +

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 2,000 meters in order to encompass the average home range size reported for the species and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 10% Moderate (inductive), L 46% Low (inductive) **Associated Habitats:** C 53% Common, O 5% Occasional

B - Bald Eagle *(Haliaeetus leucocephalus)* **SSS** 1 8 +

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Special Status Species Global: **G5** State: **S4** USFWS: **DM; BGEPA; MBTA; BCC10; BCC11; BCC17**
USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** PIF: **2**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 2,000 meters in order to be conservative about encompassing the breeding territory and area commonly used for renesting and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jul 21, 2017)

Predictive Models: M 6% Moderate (inductive), L 45% Low (inductive) **Associated Habitats:** C 9% Common, O 52% Occasional

B - Golden Eagle *(Aquila chrysaetos)* **SOC** | 1 | 11 + | Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **BGEPA; MBTA; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 3,000 meters in order to be conservative about encompassing the entire breeding territory and area commonly used for renesting and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jul 26, 2017)

Predictive Models: M 2% Moderate (inductive), L 87% Low (inductive) **Associated Habitats:** C 58% Common, O 31% Occasional

B - Chestnut-collared Longspur *(Calcarius ornatus)* **SOC** | 1 | 1 + | S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**

Delineation Criteria 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 115 meters in order to encompass the maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 1% Moderate (inductive), L 33% Low (inductive) **Associated Habitats:** C 12% Common, O 42% Occasional

B - Pileated Woodpecker *(Dryocopus pileatus)* **SOC** | 1 | 1 + | Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Observations with evidence of breeding activity buffered by a minimum distance of 1,500 meters in order to be conservative about encompassing home ranges and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Mar 24, 2017)

Predictive Models: M 1% Moderate (inductive), L 12% Low (inductive) **Associated Habitats:** C 7% Common, O 4% Occasional

V - Gentianopsis macounii *(Macoun's Gentian)* **SOC** | 2 | 1 | Not Available

View in Field Guide | View Associated Habitat

Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (HLC)** MNPS: **2**

Delineation Criteria 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.

Associated Habitats: C 1% Common

V - Kobresia simpliciuscula *(Simple Kobresia)* **SOC** | 1 | 1 | Not Available

View in Field Guide | View Associated Habitat

Species of Concern Global: **G5** State: **S3** MNPS: **3**

Delineation Criteria 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.

Associated Habitats: C 1% Common

V - Potentilla nivea var. pentaphylla *(Five-leaf Cinquefoil)* **SOC** | 1 | 1 | Not Available

View in Field Guide | View Associated Habitat

Species of Concern Global: **G5T4** State: **S3** USFS: **Sensitive - Known on Forests (BD, FLAT, HLC)** MNPS: **4**

Delineation Criteria 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.

Associated Habitats: C 1% Common

V - Salix serissima *(Autumn Willow)* **SOC** | 3 | 2 | Not Available

View in Field Guide | View Associated Habitat

Species of Concern Global: **G5** State: **S3** MNPS: **3**

Delineation Criteria 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.

Associated Habitats: C 1% Common

V - Trichophorum pumilum *(Rolland's bulrush)* **SOC** | 2 | 2 | Not Available

View in Field Guide | View Associated Habitat

Species of Concern Global: **G5** State: **S3** MNPS: **3**

Delineation Criteria 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.

Associated Habitats: C 1% Common

I - Pristiloma wascoense *(Shiny Tightcoil)* **SOC** | 1 | 1 | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G3** State: **S1S3**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

V - Carex sychnocephala *(Many-headed Sedge)* **SOC** | 1 | 1 | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G5** State: **S1S2** MNPS: **1**

Delineation Criteria 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.

V - Gratiola ebracteata *(Bractless Hedge-hyssop)* **SOC** | 1 | 1 | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G4** State: **S2** MNPS: **3**

Delineation Criteria 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.

V - Ranunculus cardiophyllus *(Heart-leaved Buttercup)* **SOC** | 1 | 1 | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G5** State: **S3** MNPS: **2**

Delineation Criteria 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.

Other Observed Species

	# Obs	Predictive Model	Associated Habitat	Range
B - Horned Grebe *(Podiceps auritus)* **SOC**	2			S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: M 68% Moderate (inductive), L 19% Low (inductive) **Associated Habitats:** C 1% Common, O 1% Occasional

B - Bobolink *(Dolichonyx oryzivorus)* **SOC** | + | S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**

Predictive Models: M 35% Moderate (inductive), L 49% Low (inductive) **Associated Habitats:** C 74% Common, O 5% Occasional

B - Sprague's Pipit *(Anthus spragueii)* **SOC** | 1 | S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Predictive Models: M 26% Moderate (inductive), L 52% Low (inductive) **Associated Habitats:** C 12% Common, O 40% Occasional

B - Veery *(Catharus fuscescens)* **SOC** | 2 + | S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: M 15% Moderate (inductive), L 49% Low (inductive) **Associated Habitats:** C 7% Common, O 5% Occasional

B - Clark's Nutcracker *(Nucifraga columbiana)* **SOC** | + | Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**

Predictive Models: M 12% Moderate (inductive), L 47% Low (inductive) **Associated Habitats:** C 10% Common

B - Evening Grosbeak *(Coccothraustes vespertinus)* **SOC** | 1 | Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**

Predictive Models: M 11% Moderate (inductive), L 39% Low (inductive) **Associated Habitats:** C 13% Common, O 1% Occasional

B - Cassin's Finch *(Haemorhous cassinii)* **SOC** | 2 | Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA; BCC10** FWP SWAP: **SGCN3** PIF: **3**

Predictive Models: M 11% Moderate (inductive), L 35% Low (inductive) **Associated Habitats:** C 11% Common

B - Brown Creeper *(Certhia americana)* **SOC** | + | Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **1**

Predictive Models: M 10% Moderate (inductive), L 5% Low (inductive) **Associated Habitats:** C 7% Common, O 2% Occasional

B - Varied Thrush *(Ixoreus naevius)* **SOC** | + | S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 8% Moderate (inductive), L 5% Low (inductive) **Associated Habitats:** C 10% Common, O 1% Occasional

B - Northern Goshawk *(Accipiter gentilis)* **SOC** 2 + Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 5% Moderate (inductive), L 13% Low (inductive) **Associated Habitats:** C 4% Common, O 7% Occasional

B - Baird's Sparrow *(Ammodramus bairdii)* **SOC** + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Predictive Models: M 4% Moderate (inductive), L 57% Low (inductive) **Associated Habitats:** C 50% Common, O 1% Occasional

B - Great Blue Heron *(Ardea herodias)* **SOC** 4 + Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Predictive Models: M 4% Moderate (inductive), L 41% Low (inductive) **Associated Habitats:** C 6% Common

B - Pacific Wren *(Troglodytes pacificus)* **SOC** + Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 2% Moderate (inductive), L 17% Low (inductive) **Associated Habitats:** C 8% Common, O 1% Occasional

B - Boreal Chickadee *(Poecile hudsonicus)* **SOC** + Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Predictive Models: M 1% Moderate (inductive), L 3% Low (inductive) **Associated Habitats:** C 7% Common, O 1% Occasional

A - Northern Leopard Frog *(Lithobates pipiens)* **SOC** 6 Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
USFS: **Sensitive - Known on Forests (CG, HLC, KOOT)**
Species of Concern Global: **G5** State: **S1,S4** **Sensitive - Suspected on Forests (BRT, FLAT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN1**
Predictive Models: L 40% Low (inductive) **Associated Habitats:** C 6% Common, O 1% Occasional

B - Loggerhead Shrike *(Lanius ludovicianus)* **SOC** + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 37% Low (inductive) **Associated Habitats:** C 51% Common, O 30% Occasional

B - Black-billed Cuckoo *(Coccyzus erythropthalmus)* **SOC** + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3, SGIN** PIF: **2**
Predictive Models: L 8% Low (inductive) **Associated Habitats:** C 8% Common

M - Swift Fox *(Vulpes velox)* **SOC** + Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: L 1% Low (inductive) **Associated Habitats:** C 12% Common, O 44% Occasional

B - Short-eared Owl *(Asio flammeus)* **PSOC** 2 Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA; BCC11; BCC17** PIF: **3**
Associated Habitats: C 82% Common, O 6% Occasional

M - Porcupine *(Erethizon dorsatum)* **PSOC** 1 Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** FWP SWAP: **SGIN**
Associated Habitats: C 64% Common, O 1% Occasional

B - Sharp-tailed Grouse *(Tympanuchus phasianellus)* **SOC** + Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1,S4** FWP SWAP: **SGCN1** PIF: **2**
Associated Habitats: C 51% Common, O 35% Occasional

B - Rufous Hummingbird *(Selasphorus rufus)* **PSOC** 2 + Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 50% Common, O 2% Occasional

B - Peregrine Falcon *(Falco peregrinus)* **SOC** + Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **DM; MBTA; BCC10; BCC11; BCC17**
USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 41% Common, O 13% Occasional

B - Hooded Merganser *(Lophodytes cucullatus)* **PSOC** — 1 — Not Available — Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 5% Common, O 1% Occasional

B - Barrow's Goldeneye *(Bucephala islandica)* **PSOC** — 3 + — Not Available — Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 5% Common

B - Harlequin Duck *(Histrionicus histrionicus)* **SOC** — + — Not Available — S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)** FWP SWAP: **SGCN2** PIF: **1**
Associated Habitats: C 4% Common, O 1% Occasional

B - Franklin's Gull *(Leucophaeus pipixcan)* **SOC** — 3 + — Not Available — M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 2% Common, O 40% Occasional

B - Forster's Tern *(Sterna forsteri)* **SOC** — + — Not Available — S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 2% Common, O 3% Occasional

B - American White Pelican *(Pelecanus erythrorhynchos)* **SOC** — 2 + — Not Available — M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 2% Common

B - Common Loon *(Gavia immer)* **SOC** — 1 + — Not Available — S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (FLAT, KOOT, LOLO)** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 1% Common, O 1% Occasional

V - Euphrasia subarctica *(Arctic Eyebright)* **SOC** — + — Not Available

View in Field Guide View Associated Habitat
Species of Concern Global: **G5** State: **S2** MNPS: **3**
Associated Habitats: C 1% Common

V - Utricularia ochroleuca *(Northern Bladderwort)* **SOC** — 1 — Not Available — Not Assigned

View in Field Guide
Species of Concern Global: **G4G5** State: **S1**

Other Potential Species

Predictive Model | Associated Habitat | Range

M - Preble's Shrew *(Sorex preblei)* **SOC** — Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 94% Moderate (inductive), L 6% Low (inductive) **Associated Habitats:** C 55% Common, O 1% Occasional

M - Little Brown Myotis *(Myotis lucifugus)* **SOC** — Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 69% Moderate (inductive), L 31% Low (inductive) **Associated Habitats:** C 67% Common, O 32% Occasional

M - Hoary Bat *(Lasiurus cinereus)* **SOC** — S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 66% Moderate (inductive), L 34% Low (inductive) **Associated Habitats:** C 59% Common, O 40% Occasional

M - Silver-haired Bat *(Lasionycteris noctivagans)* **PSOC** — Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G3G4** State: **S4**
Predictive Models: M 65% Moderate (inductive), L 35% Low (inductive) **Associated Habitats:** C 65% Common, O 23% Occasional

M - Townsend's Big-eared Bat *(Corynorhinus townsendii)* **SOC** — Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 26% Moderate (inductive), L 49% Low (inductive) **Associated Habitats:** C 61% Common, O 26% Occasional

B - Gray-crowned Rosy-Finch *(Leucosticte tephrocotis)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B,S5N** USFWS: **MBTA** FWP SWAP: **SGCN2, SGIN**
Predictive Models: M 16% Moderate (inductive), L 31% Low (inductive) **Associated Habitats:** C 1% Common, O 1% Occasional

B - Great Gray Owl *(Strix nebulosa)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN** PIF: **3**
Predictive Models: M 3% Moderate (inductive), L 30% Low (inductive) **Associated Habitats:** C 12% Common, O 1% Occasional

B - Boreal Owl *(Aegolius funereus)* **PSOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Predictive Models: M 3% Moderate (inductive), L 12% Low (inductive) **Associated Habitats:** C 6% Common, O 5% Occasional

B - Brewer's Sparrow *(Spizella breweri)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 1% Moderate (inductive), L 80% Low (inductive) **Associated Habitats:** O 1% Occasional

B - Mountain Plover *(Charadrius montanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**
Predictive Models: M 1% Moderate (inductive), L 35% Low (inductive) **Associated Habitats:** C 12% Common, O 34% Occasional

R - Greater Short-horned Lizard *(Phrynosoma hernandesi)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN**
Predictive Models: M 1% Moderate (inductive), L 23% Low (inductive) **Associated Habitats:** C 50% Common

B - Black-backed Woodpecker *(Picoides arcticus)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Predictive Models: M 1% Moderate (inductive), L 12% Low (inductive) **Associated Habitats:** C 7% Common

M - Northern Bog Lemming *(Synaptomys borealis)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (BD, BRT, FLAT, HLC, KOOT, LOLO)** FWP SWAP: **SGCN2, SGIN**
Predictive Models: M 1% Moderate (inductive), L 7% Low (inductive) **Associated Habitats:** C 4% Common, O 1% Occasional

M - Hoary Marmot *(Marmota caligata)* **PSOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4** FWP SWAP: **SGIN**
Predictive Models: M 1% Moderate (inductive), L 7% Low (inductive) **Associated Habitats:** C 2% Common, O 4% Occasional

M - Eastern Red Bat *(Lasiurus borealis)* **PSOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G3G4** State: **SU**
Predictive Models: L 62% Low (inductive) **Associated Habitats:** C 1% Common, O 12% Occasional

B - Burrowing Owl *(Athene cunicularia)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC17** USFS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Predictive Models: L 56% Low (inductive) **Associated Habitats:** C 12% Common, O 40% Occasional

B - Lewis's Woodpecker *(Melanerpes lewis)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2B** USFWS: **MBTA; BCC10; BCC17** FWP SWAP: **SGCN2** PIF: **2**
Predictive Models: L 37% Low (inductive) **Associated Habitats:** C 3% Common, O 5% Occasional

R - Plains Hog-nosed Snake *(Heterodon nasicus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2, SGIN**
Predictive Models: L 13% Low (inductive) **Associated Habitats:** C 14% Common, O 1% Occasional

V - Pinus albicaulis *(Whitebark Pine)* **SOC** Y

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3G4** State: **S3** USFWS: **C** USFS: **Candidate on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE**
Predictive Models: L 13% Low (inductive) **Associated Habitats:** C 4% Common

B - Flammulated Owl *(Psiloscops flammeolus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10** USFS: **Sensitive - Known on Forests (BD, BRT, FLAT, HLC, KOOT, LOLO)** **Sensitive - Suspected on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Predictive Models: L 10% Low (inductive) **Associated Habitats:** C 1% Common, O 10% Occasional

M - Fringed Myotis *(Myotis thysanodes)* **SOC** Y S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: L 8% Low (inductive) **Associated Habitats:** C 66% Common, O 1% Occasional

B - Common Tern *(Sterna hirundo)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 8% Low (inductive) **Associated Habitats:** C 5% Common

M - Pygmy Shrew *(Sorex hoyi)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: L 5% Low (inductive) **Associated Habitats:** C 58% Common, O 12% Occasional

B - Northern Hawk Owl *(Surnia ulula)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3, SGIN**
Predictive Models: L 1% Low (inductive) **Associated Habitats:** C 9% Common, O 1% Occasional

B - Black Swift *(Cypseloides niger)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S1B** USFWS: **MBTA; BCC10** FWP SWAP: **SGCN1, SGIN** PIF: **2**
Predictive Models: L 1% Low (inductive) **Associated Habitats:** C 1% Common

B - Piping Plover *(Charadrius melodus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2B** USFWS: **LT; MBTA** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN2** PIF: **1**
Predictive Models: L 1% Low (inductive) **Associated Habitats:** C 1% Common

M - Hayden's Shrew *(Sorex haydeni)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 77% Common

B - Common Poorwill *(Phalaenoptilus nuttallii)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 52% Common, O 35% Occasional

A - Plains Spadefoot *(Spea bombifrons)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (HLC)** **Sensitive - Suspected on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Associated Habitats: C 49% Common, O 16% Occasional

M - Bison *(Bos bison)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2** FWP SWAP: **SGCN2**
Associated Habitats: C 39% Common, O 6% Occasional

B - Western Screech-Owl *(Megascops kennicottii)* **PSOC** Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G4G5** State: **S3S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 39% Common, O 3% Occasional

A - Great Plains Toad *(Anaxyrus cognatus)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Associated Habitats: C 14% Common, O 43% Occasional

I - Polygonia progne *(Gray Comma)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2**
Associated Habitats: C 13% Common, O 1% Occasional

B - Ovenbird *(Seiurus aurocapilla)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 12% Common, O 4% Occasional

B - Tennessee Warbler *(Oreothlypis peregrina)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4B** USFWS: **MBTA**
Associated Habitats: C 12% Common

I - Euphydryas gillettii *(Gillette's Checkerspot)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2**
Associated Habitats: C 8% Common, O 39% Occasional

M - Water Vole *(Microtus richardsoni)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4**
Associated Habitats: C 7% Common, O 1% Occasional

B - Alder Flycatcher *(Empidonax alnorum)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 7% Common

B - Black-crowned Night-Heron *(Nycticorax nycticorax)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 5% Common, O 1% Occasional

B - Trumpeter Swan *(Cygnus buccinator)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 5% Common, O 1% Occasional

B - White-faced Ibis *(Plegadis chihi)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 5% Common, O 1% Occasional

I - Limenitis arthemis *(Red-spotted Admiral)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 4% Common, O 4% Occasional

I - Boloria freija *(Freija Fritillary)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 4% Common, O 1% Occasional

I - Somatochlora walshii *(Brush-tipped Emerald)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1S2**
Associated Habitats: C 4% Common, O 1% Occasional

I - Ophiogomphus occidentis *(Sinuous Snaketail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 4% Common

I - Colias gigantea *(Giant Sulphur)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3**
Associated Habitats: C 2% Common, O 4% Occasional

B - Black-necked Stilt *(Himantopus mexicanus)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 2% Common, O 3% Occasional

I - Sympetrum madidum *(Red-veined Meadowhawk)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 2% Common, O 1% Occasional

I - Leucorrhinia glacialis *(Crimson-ringed Whiteface)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3**
Associated Habitats: C 1% Common, O 4% Occasional

I - Somatochlora albicincta *(Ringed Emerald)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 4% Occasional

I - Somatochlora minor *(Ocellated Emerald)* **PSOC** Not Available Y S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 4% Occasional

I - Aeshna tuberculifera *(Black-tipped Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 3% Occasional

B - Caspian Tern *(Hydroprogne caspia)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**
Associated Habitats: C 1% Common, O 3% Occasional

I - Rhionaeschna californica *(California Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 2% Occasional

I - Aeshna constricta *(Lance-tipped Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Aeshna juncea *(Sedge Darner)* **PSOC** Not Available Y S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

I - Aeshna sitchensis *(Zigzag Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Aeshna subarctica *(Subarctic Darner)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1S2**
Associated Habitats: C 1% Common, O 1% Occasional

I - Argia emma *(Emma's Dancer)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

I - Boloria frigga *(Frigga Fritillary)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1S2**
Associated Habitats: C 1% Common, O 1% Occasional

I - Enallagma clausum *(Alkali Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 1% Occasional

I - Epitheca spinigera *(Spiny Baskettail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

I - Erebia discoidalis *(Red-disked Alpine)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

I - Gomphus graslinellus *(Pronghorn Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

I - Leucorrhinia borealis *(Boreal Whiteface)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1**
Associated Habitats: C 1% Common, O 1% Occasional

I - Oeneis melissa *(Melissa Arctic)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Rhionaeschna multicolor *(Blue-eyed Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 1% Occasional

I - Somatochlora hudsonica *(Hudsonian Emerald)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 1% Occasional

I - Somatochlora semicircularis *(Mountain Emerald)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

B - Clark's Grebe *(Aechmophorus clarkii)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 1% Common, O 1% Occasional

B - White-tailed Ptarmigan *(Lagopus leucura)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3, SGIN** PIF: **3**
Associated Habitats: C 1% Common

I - Aeshna eremita *(Lake Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 1% Common

I - Ladona julia *(Chalk-fronted Corporal)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 1% Common

Latitude	Longitude
48.37094	-112.53118
48.68658	-113.30082

Structured Surveys

The Montana Natural Heritage Program (MTNHP) records information on the locations where more than 80 different types of well-defined repeatable survey protocols capable of detecting an animal species or suite of animal species have been conducted by state, federal, tribal, university, or private consulting biologists. Examples of structured survey protocols tracked by MTNHP include: visual encounter and dip net surveys for pond breeding amphibians, point counts for birds, call playback surveys for selected bird species, visual surveys of migrating raptors, kick net stream reach surveys for macroinvertebrates, visual encounter cover object surveys for terrestrial mollusks, bat acoustic or mist net surveys, pitfall and/or snap trap surveys for small terrestrial mammals, track or camera trap surveys for large mammals, and trap surveys for turtles. Whenever possible, photographs of survey locations are stored in MTNHP databases.

MTNHP does not typically manage information on structured surveys for plants; surveys for invasive species may be a future exception.

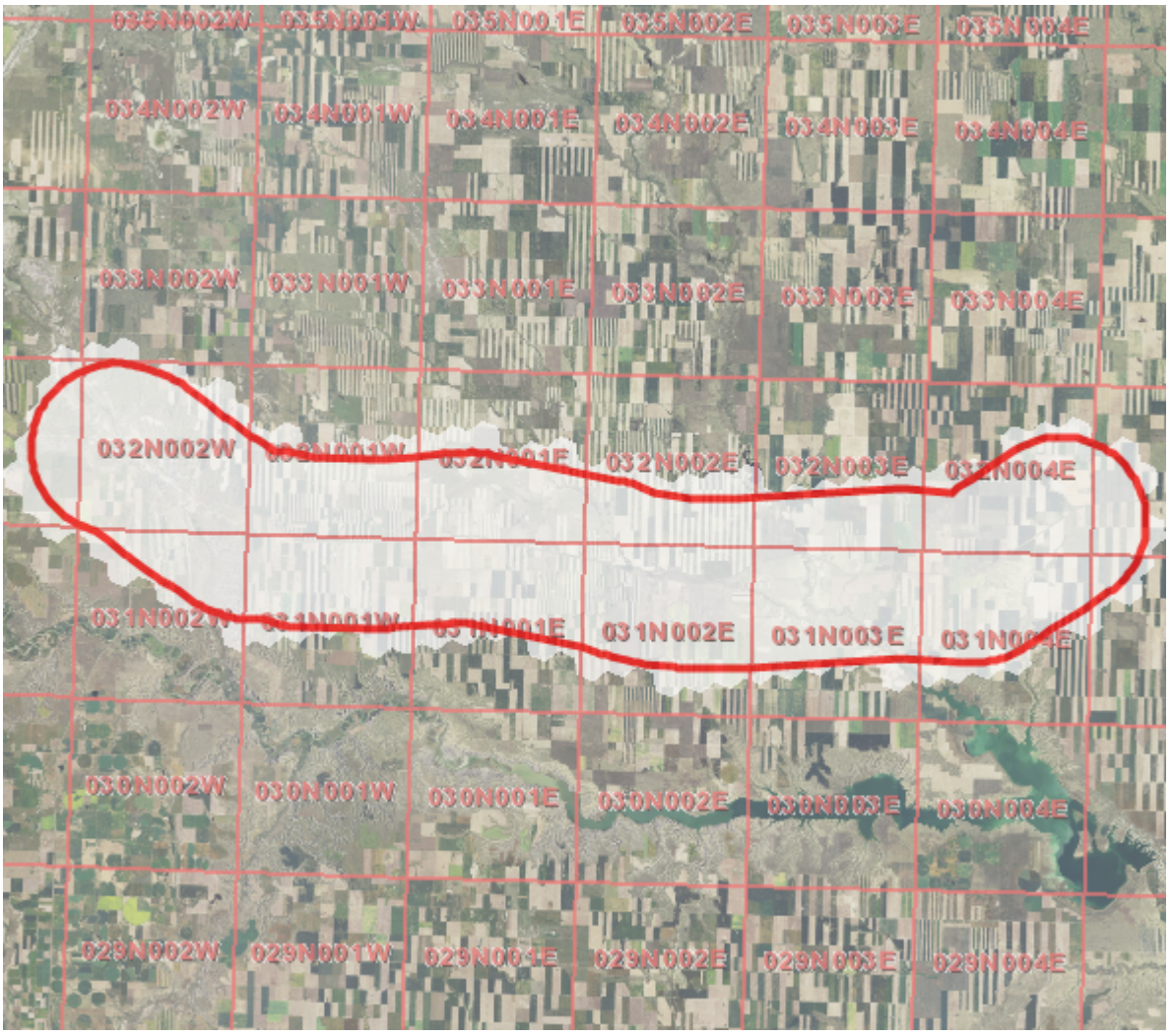
Within the report area you have requested, structured surveys are summarized by the number of each type of structured survey protocol that has been conducted, the number of species detections/observations resulting from these surveys, and the most recent year a survey has been conducted.

B-Bald Eagle Nest *(Bald Eagle Nest Survey)*	**Survey Count**: 3	**Obs Count**: 1	**Recent Survey**: 1987
B-Point Count *(Bird Point Count)*	**Survey Count**: 6	**Obs Count**: 18	**Recent Survey**: 2012
B-Winter Breeding Owl *(Late Winter Breeding Owl Survey)*	**Survey Count**: 8	**Obs Count**: 1	**Recent Survey**: 2014

Environmental Summary

MONTANA
Natural Heritage Program
1515 East 6th Avenue
Helena, MT 59620
(406) 444-0241
mtnhp.org

Latitude	Longitude
48.39227	-111.09142
48.59222	-111.97941



Suggested Citation

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for Latitude 48.39227 to 48.59222 and Longitude -111.09142 to -111.97941. Retrieved on 8/14/2017.

The Montana Natural Heritage Program is a program of the Montana State Library's Natural Resource Information System. It is operated as a special program under the Office of the Vice President for Research and Creative Scholarship at the University of Montana, Missoula.

The Montana Natural Heritage Program is part of NatureServe – a network of over 80 similar programs in states, provinces and nations throughout the Western Hemisphere, working to provide comprehensive status and distribution information for species and ecosystems.

Montana Natural Heritage Program · Montana State Library · University of Montana · NatureServe

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Introduction to Environmental Summary Report

The Environmental Summary report for your area of interest consists of introductory and related materials in this PDF and an Excel workbook with worksheets summarizing information managed in the Montana Natural Heritage Program's (MTNHP) databases for: (1) species occurrences; (2) other observed species without Species Occurrences; (3) other species potentially present based on their range, presence of associated habitats, or predictive distribution model output if available; (4) structured surveys (organized efforts following a protocol capable of detecting one or more species); (5) land cover mapped as ecological systems; (6) wetland and riparian mapping; (7) land management categories; and (8) biological reports associated with plant and animal observations. In order to do this in a consistent manner across Montana and allow for rapid delivery of summaries, we have intersected this information with a uniform grid of hexagons that have been used for planning efforts across the western United States (e.g. Western Association of Fish and Wildlife Agencies - Crucial Habitat Assessment Tool). Each hexagon is one square mile in area and approximately one kilometer in length on each side. Summary information for each data layer is then stored with each hexagon and those summaries are added up to an overall summary for the report area you have requested. Users should be aware that summaries do not correspond to the exact boundaries of the polygon they have specified, but instead are a summary across all hexagons intersected by the polygon they specified.

In presenting this information, MTNHP is working towards assisting the user with rapidly assessing the known or potential species and biological communities, land management categories, and biological reports associated with the report area. We remind users that this information is likely incomplete and may be inaccurate as surveys to document species are lacking in many areas of the state, species' range polygons often include regions of unsuitable habitat, methods of predicting the presence of species or communities are constantly improving, and information is constantly being added and updated in our databases. **Field verification by professional biologists of the absence or presence of species and biological communities in a report area will always be an important obligation of users of our data. Users are encouraged to only use this environmental summary report as a starting point for more in depth analyses and are encouraged to contact state, federal, and tribal resource management agencies for additional data or management guidelines relevant to your efforts. Please see the Appendix for introductory materials to each section of the report, additional information resources, and a list of relevant agency contacts.**

MONTANA Natural Heritage Program

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

Legend

Model Icons	Habitat Icons	Range Icons	Num Obs
N Suitable (native range)	C Common	I Introduced Range	Count of obs with 'good precision' (<=1000m)
O Optimal Suitability	O Occasional	Y Year-round Range	+ indicates additional 'poor precision' obs (1001m-10,000m)
M Moderate Suitability		S Summer Range	
L Low Suitability		W Winter Range	
I Suitable (introduced range)		M Migratory Range	
		H Historic Range	

Latitude	Longitude
48.39227	-111.09142
48.59222	-111.97941

Species Summary

Filtered by:

MT_Status='Species of Concern','Special Status','Important Animal Habitat','Potential SOC'

Species Occurrences

	# SO	# Obs	Predictive Model	Associated Habitat	Range
B - McCown's Longspur *(Rhynchophanes mccownii)* **SOC**	2	2 +			S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 02, 2016)

Predictive Models: M 81% Moderate (inductive), L 19% Low (inductive) **Associated Habitats:** C 13% Common, O 77% Occasional

	# SO	# Obs	Predictive Model	Associated Habitat	Range
B - Ferruginous Hawk *(Buteo regalis)* **SOC**	5	2 +			S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 2,000 meters in order to encompass the average home range size reported for the species and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 79% Moderate (inductive), L 21% Low (inductive) **Associated Habitats:** C 20% Common, O 4% Occasional

	# SO	# Obs	Predictive Model	Associated Habitat	Range
B - Loggerhead Shrike *(Lanius ludovicianus)* **SOC**	3	1 +			S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 300 meters in order to encompass the maximum breeding territory size reported for the species in Alberta and Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 34% Moderate (inductive), L 66% Low (inductive) **Associated Habitats:** C 20% Common, O 77% Occasional

B - Burrowing Owl *(Athene cunicularia)* **SOC** 3 2 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC17** USFS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, or territorial adults during the breeding season. Direct observation of a bird or birds at/on a prairie dog town is indirect but sufficient evidence of breeding (b). Point observation location is buffered by a minimum distance of 2,700 meters in order to encompass the maximum foraging distance reported for breeding adults and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 27% Moderate (inductive), L 73% Low (inductive) **Associated Habitats:** C 18% Common, O 6% Occasional

B - Chestnut-collared Longspur *(Calcarius ornatus)* **SOC** 3 1 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**

Delineation Criteria 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 115 meters in order to encompass the maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 12% Moderate (inductive), L 87% Low (inductive) **Associated Habitats:** C 17% Common, O 6% Occasional

B - Long-billed Curlew *(Numenius americanus)* **SOC** 3 3 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 200 meters in order to approximate the breeding territory size reported for the species in Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 12% Moderate (inductive), L 80% Low (inductive) **Associated Habitats:** C 13% Common, O 8% Occasional

B - Sprague's Pipit *(Anthus spragueii)* **SOC** 1 1 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria 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 115 meters in order to encompass the maximum breeding territory sizes reported for the species in Montana and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 28, 2016)

Predictive Models: M 9% Moderate (inductive), L 91% Low (inductive) **Associated Habitats:** C 13% Common, O 6% Occasional

B - Brewer's Sparrow *(Spizella breweri)* **SOC** 2 1 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 maximum territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Apr 03, 2017)

Predictive Models: M 9% Moderate (inductive), L 91% Low (inductive) **Associated Habitats:** O 2% Occasional

R - Greater Short-horned Lizard *(Phrynosoma hernandesi)* **SOC** 1 + Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN**

Delineation Criteria Confirmed breeding area based on the presence of a resident animal of any age. Point observation location is buffered by a minimum distance of 300 meters in order to encompass habitats supporting other individuals and documented distances moved betweeen summer and winter habitats. Otherwise the point observation is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 6% Moderate (inductive), L 32% Low (inductive) **Associated Habitats:** C 17% Common

B - Baird's Sparrow *(Ammodramus bairdii)* **SOC** 1 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria 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 average breeding territory size of the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 5% Moderate (inductive), L 94% Low (inductive) **Associated Habitats:** C 15% Common, O 1% Occasional

B - Golden Eagle *(Aquila chrysaetos)* **SOC** 1 2 + Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **BGEPA; MBTA; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 3,000 meters in order to be conservative about encompassing the entire breeding territory and area commonly used for renesting and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jul 26, 2017)

Predictive Models: M 2% Moderate (inductive), L 94% Low (inductive) **Associated Habitats:** C 19% Common, O 77% Occasional

M - Little Brown Myotis *(Myotis lucifugus)* **SOC** 1 1 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, or definitively identified roosting individuals) of adults or juveniles. Point observation location is buffered by a distance of 1,600 meters in order to encompass the greater than 1,500 meters foraging distance reported for the species in New Brunswick, Canada and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When cave locations are involved, point observations are mapped in the center of a one-square mile hexagon to protect the exact location of the cave entrance as per the Federal Cave Resource Protection Act and associated regulations (U.S. Code Title 16 Chapter 63, Code of Federal Regulations Title 43 Subtitle A Part 37). The outer edges of the hexagon are then buffered by a distance of 1,600 meters and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 14, 2017)

Predictive Models: M 2% Moderate (inductive), L 77% Low (inductive) **Associated Habitats:** C 21% Common, O 77% Occasional

M - Hoary Bat *(Lasiurus cinereus)* **SOC** — # Obs: 2 | Predictive Model: 1 | Range: S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3G4** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, and definitively identified roosting individuals) of adults or juveniles during the active season. Point observation location is buffered by a minimum distance of 3,500 meters in order to be conservative about encompassing the maximum reported foraging distance for the congeneric Lasiurus borealis and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 20, 2017)

Predictive Models: M 2% Moderate (inductive), L 60% Low (inductive) **Associated Habitats:** C 17% Common, O 81% Occasional

B - Mountain Plover *(Charadrius montanus)* **SOC** — # Obs: 1 | Predictive Model: 2 | Range: S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, or territorial adults during the breeding season. When the observation is within a prairie dog town, the outer boundary of town (currently based on the grid-based delineation of 100m x 100m cells with evidence of prairie dog activity visible in aerial imagery) is used as the delineation of the breeding area. When the observation is not within a prairie dog town, the point observation location is buffered by a minimum distance of 550 meters in order to encompass the maximum brood rearing range size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When prairie dog town boundaries or locational uncertainties associated with point observations overlap they will be merged into a common tracking unit associated with all of the observations contained within the tracking unit. (Last Updated: Jul 14, 2016)

Predictive Models: M 2% Moderate (inductive), L 53% Low (inductive) **Associated Habitats:** C 18% Common, O 1% Occasional

M - Black-tailed Prairie Dog *(Cynomys ludovicianus)* **SOC** — # Obs: 2 | Predictive Model: 4 + | Range: Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Areas with recent evidence of activity (i.e. burrow entrances) visible on the 2005, 2009, 2013, or 2015 National Agricultural Imagery Program (NAIP) aerial color photographic imagery that are within a distance of 200 meters of definitive observations buffered by the locational uncertainty of less than or equal to 1,000 meters. (Last Updated: Apr 20, 2017)

Predictive Models: L 38% Low (inductive) **Associated Habitats:** C 17% Common, O 79% Occasional

Other Observed Species

	# Obs	Predictive Model	Associated Habitat	Range
M - Silver-haired Bat *(Lasionycteris noctivagans)* **PSOC**	1			Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G3G4** State: **S4**

Predictive Models: M 3% Moderate (inductive), L 61% Low (inductive) **Associated Habitats:** C 16% Common, O 73% Occasional

A - Northern Leopard Frog *(Lithobates pipiens)* **SOC** — # Obs: + | Predictive Model | Associated Habitat | Range: Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S1,S4** USFS: **Sensitive - Known on Forests (CG, HLC, KOOT)** **Sensitive - Suspected on Forests (BRT, FLAT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN1**

Predictive Models: L 50% Low (inductive) **Associated Habitats:** C 4% Common, O 1% Occasional

A - Plains Spadefoot *(Spea bombifrons)* **SOC** — # Obs: 1 | Predictive Model | Associated Habitat | Range: Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (HLC)** **Sensitive - Suspected on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Predictive Models: L 47% Low (inductive) **Associated Habitats:** C 20% Common, O 5% Occasional

F - Lake Trout *(Salvelinus namaycush)* **SOC** — # Obs: + | Predictive Model | Associated Habitat: Not Assigned | Range: I

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S2** FWP SWAP: **SGCN2**

Predictive Models: I 1% Suitable (introduced range) (deductive)

B - Short-eared Owl *(Asio flammeus)* **PSOC** — # Obs: 1 + | Predictive Model: Not Available | Range: Y S W M

View in Field Guide | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA; BCC11; BCC17** PIF: **3**

Associated Habitats: C 89% Common, O 5% Occasional

B - Sharp-tailed Grouse *(Tympanuchus phasianellus)* **SOC** — # Obs: + | Predictive Model: Not Available | Range: Y S W

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S1,S4** FWP SWAP: **SGCN1** PIF: **2**

Associated Habitats: C 16% Common, O 77% Occasional

B - Black-and-white Warbler *(Mniotilta varia)* **PSOC** — # Obs: + | Predictive Model: Not Available | Associated Habitat

View in Field Guide View Associated Habitat
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA**
Associated Habitats: C 1% Common, O 1% Occasional

F - Brassy Minnow *(Hybognathus hankinsoni)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide View Range Maps
Potential Species of Concern Global: **G5** State: **S4**

F - Burbot *(Lota lota)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide View Range Maps
Potential Species of Concern Global: **G5** State: **S4**

F - Plains Minnow *(Hybognathus placitus)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide View Range Maps
Potential Species of Concern Global: **G4** State: **S4**

F - Brook Stickleback *(Culaea inconstans)* **PSOC** + Not Available Not Assigned Y S W I

View in Field Guide View Range Maps
Potential Species of Concern Global: **G5** State: **S4**

Other Potential Species

Predictive Model | Associated Habitat | Range

B - American Bittern *(Botaurus lentiginosus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: O 1% Optimal (inductive), M 23% Moderate (inductive), L 74% Low (inductive) **Associated Habitats:** C 4% Common

B - Black Tern *(Chlidonias niger)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4G5** State: **S3B** USFWS: **MBTA; BCC11** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: O 1% Optimal (inductive), M 6% Moderate (inductive), L 92% Low (inductive) **Associated Habitats:** C 1% Common, O 2% Occasional

B - Common Tern *(Sterna hirundo)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: O 1% Optimal (inductive), M 4% Moderate (inductive), L 71% Low (inductive) **Associated Habitats:** C 2% Common

M - Swift Fox *(Vulpes velox)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 19% Moderate (inductive), L 81% Low (inductive) **Associated Habitats:** C 13% Common, O 10% Occasional

M - Preble's Shrew *(Sorex preblei)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 18% Moderate (inductive), L 82% Low (inductive) **Associated Habitats:** C 20% Common

M - Merriam's Shrew *(Sorex merriami)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 7% Moderate (inductive), L 89% Low (inductive) **Associated Habitats:** C 16% Common, O 3% Occasional

B - Horned Grebe *(Podiceps auritus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 7% Moderate (inductive), L 89% Low (inductive) **Associated Habitats:** C 1% Common, O 2% Occasional

M - Dwarf Shrew *(Sorex nanus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2S3** FWP SWAP: **SGCN2-3**
Predictive Models: M 3% Moderate (inductive), L 66% Low (inductive) **Associated Habitats:** C 17% Common, O 1% Occasional

B - Great Blue Heron *(Ardea herodias)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Predictive Models: M 1% Moderate (inductive), L 32% Low (inductive) **Associated Habitats:** C 2% Common

B - Bobolink *(Dolichonyx oryzivorus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: L 99% Low (inductive) **Associated Habitats:** C 87% Common, O 4% Occasional

A - Great Plains Toad *(Anaxyrus cognatus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Predictive Models: L 51% Low (inductive) **Associated Habitats:** C 20% Common, O 1% Occasional

B - Greater Sage-Grouse *(Centrocercus urophasianus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
USFS: **Sensitive - Known on Forests (BD)**
Species of Concern Global: **G3G4** State: **S2** **Sensitive - Suspected on Forests (CG, HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**
Predictive Models: L 19% Low (inductive) **Associated Habitats:** C 15% Common, O 5% Occasional

M - Eastern Red Bat *(Lasiurus borealis)* **PSOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G3G4** State: **SU**
Predictive Models: L 12% Low (inductive) **Associated Habitats:** C 1% Common, O 17% Occasional

B - Bald Eagle *(Haliaeetus leucocephalus)* **SSS** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Special Status Species Global: **G5** State: **S4** USFWS: **DM; BGEPA; MBTA; BCC10; BCC11; BCC17**
USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** PIF: **2**
Predictive Models: L 8% Low (inductive) **Associated Habitats:** C 1% Common, O 13% Occasional

R - Plains Hog-nosed Snake *(Heterodon nasicus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2, SGIN**
Predictive Models: L 7% Low (inductive) **Associated Habitats:** C 20% Common, O 1% Occasional

M - Townsend's Big-eared Bat *(Corynorhinus townsendii)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE**
FWP SWAP: **SGCN3**
Predictive Models: L 3% Low (inductive) **Associated Habitats:** C 16% Common, O 77% Occasional

M - Spotted Bat *(Euderma maculatum)* **SOC** M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (BD, CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN**
Predictive Models: L 1% Low (inductive) **Associated Habitats:** C 21% Common, O 77% Occasional

M - Hayden's Shrew *(Sorex haydeni)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 97% Common

B - Common Poorwill *(Phalaenoptilus nuttallii)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 19% Common, O 77% Occasional

M - Black-footed Ferret *(Mustela nigripes)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G1** State: **S1** USFWS: **LE,XN** USFS: **Endangered, Experimental Nonessential on Forests (CG)** BLM: **SPECIAL STATUS**
FWP SWAP: **SGCN1**
Associated Habitats: C 17% Common, O 2% Occasional

M - Porcupine *(Erethizon dorsatum)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** FWP SWAP: **SGIN**
Associated Habitats: C 14% Common, O 1% Occasional

B - Peregrine Falcon *(Falco peregrinus)* **SOC** Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **DM; MBTA; BCC10; BCC11; BCC17**
USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 4% Common, O 13% Occasional

I - Sympetrum madidum *(Red-veined Meadowhawk)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 3% Common, O 1% Occasional

B - Black-necked Stilt *(Himantopus mexicanus)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 3% Common, O 1% Occasional

B - Franklin's Gull *(Leucophaeus pipixcan)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 2% Common, O 86% Occasional

B - Black-crowned Night-Heron *(Nycticorax nycticorax)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 2% Common, O 2% Occasional

B - White-faced Ibis *(Plegadis chihi)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 2% Common, O 2% Occasional

M - Grizzly Bear *(Ursus arctos)* **SOC** Not Available Y S W H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2S3** USFWS: **PS: LT; XN; DM** USFS: **Threatened on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)**
BLM: **SENSITIVE** FWP SWAP: **SGCN2-3**
Associated Habitats: C 1% Common, O 13% Occasional

M - Bison *(Bos bison)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2** FWP SWAP: **SGCN2**
Associated Habitats: C 1% Common, O 6% Occasional

I - Polygonia progne *(Gray Comma)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2**
Associated Habitats: C 1% Common, O 3% Occasional

B - Hooded Merganser *(Lophodytes cucullatus)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 1% Common, O 3% Occasional

I - Rhionaeschna californica *(California Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 2% Occasional

I - Rhionaeschna multicolor *(Blue-eyed Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 2% Occasional

B - Caspian Tern *(Hydroprogne caspia)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**
Associated Habitats: C 1% Common, O 2% Occasional

I - Aeshna constricta *(Lance-tipped Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Coenagrion angulatum *(Prairie Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Enallagma clausum *(Alkali Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 1% Occasional

I - Gomphus graslinellus *(Pronghorn Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 1% Occasional

B - Forster's Tern *(Sterna forsteri)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 1% Common, O 1% Occasional

B - Clark's Grebe *(Aechmophorus clarkii)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 1% Common, O 1% Occasional

B - Rufous Hummingbird *(Selasphorus rufus)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 1% Common, O 1% Occasional

B - Barrow's Goldeneye *(Bucephala islandica)* **PSOC** Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 1% Common

B - Eastern Screech-Owl *(Megascops asio)* **PSOC** Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 1% Common

R - Spiny Softshell *(Apalone spinifera)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Associated Habitats: C 1% Common

I - Argia emma *(Emma's Dancer)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common

I - Limenitis arthemis *(Red-spotted Admiral)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common

B - Black-billed Cuckoo *(Coccyzus erythropthalmus)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3, SGIN** PIF: **2**
Associated Habitats: C 1% Common

B - Ovenbird *(Seiurus aurocapilla)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 1% Common

B - Veery *(Catharus fuscescens)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 1% Common

B - Evening Grosbeak *(Coccothraustes vespertinus)* **SOC** Not Available W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 1% Common

B - Alder Flycatcher *(Empidonax alnorum)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 1% Common

B - American White Pelican *(Pelecanus erythrorhynchos)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 1% Common

B - Common Loon *(Gavia immer)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (FLAT, KOOT, LOLO)** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 1% Common

B - Piping Plover *(Charadrius melodus)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps

Species of Concern Global: **G3** State: **S2B** USFWS: **LT; MBTA** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN2** PIF: **1**

Associated Habitats: C 1% Common

B - Trumpeter Swan *(Cygnus buccinator)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps

Species of Concern Global: **G4** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Associated Habitats: C 1% Common

Latitude	Longitude
48.39227	-111.09142
48.59222	-111.97941

Structured Surveys

The Montana Natural Heritage Program (MTNHP) records information on the locations where more than 80 different types of well-defined repeatable survey protocols capable of detecting an animal species or suite of animal species have been conducted by state, federal, tribal, university, or private consulting biologists. Examples of structured survey protocols tracked by MTNHP include: visual encounter and dip net surveys for pond breeding amphibians, point counts for birds, call playback surveys for selected bird species, visual surveys of migrating raptors, kick net stream reach surveys for macroinvertebrates, visual encounter cover object surveys for terrestrial mollusks, bat acoustic or mist net surveys, pitfall and/or snap trap surveys for small terrestrial mammals, track or camera trap surveys for large mammals, and trap surveys for turtles. Whenever possible, photographs of survey locations are stored in MTNHP databases.

MTNHP does not typically manage information on structured surveys for plants; surveys for invasive species may be a future exception.

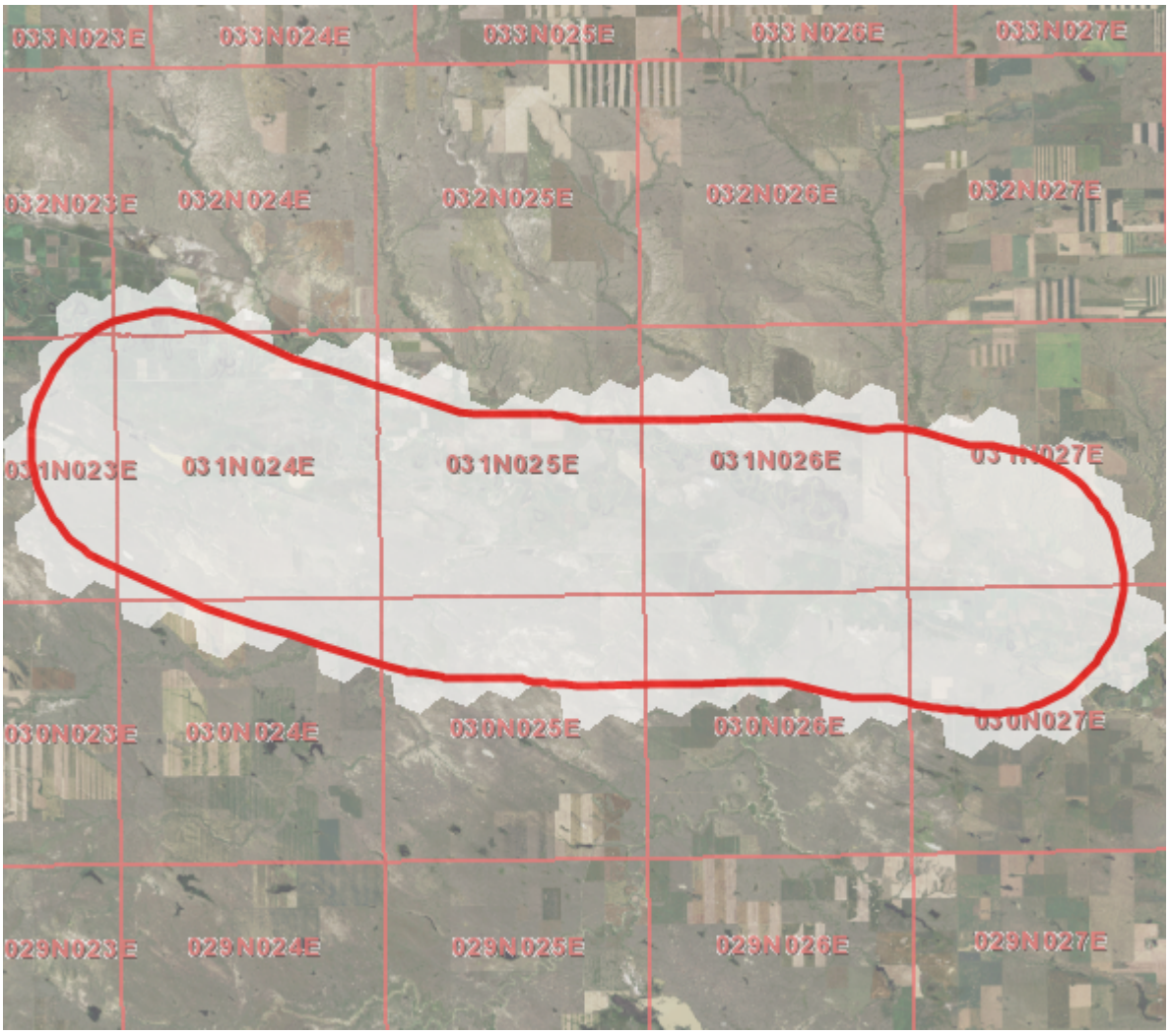
Within the report area you have requested, structured surveys are summarized by the number of each type of structured survey protocol that has been conducted, the number of species detections/observations resulting from these surveys, and the most recent year a survey has been conducted.

A-Nocturnal Calling Amphibian *(Nocturnal Breeding Amphibian Calling Survey)*	**Survey Count**: 3	**Obs Count**: 3	**Recent Survey**: 1997
B-Point Count *(Bird Point Count)*	**Survey Count**: 10	**Obs Count**: 45	**Recent Survey**: 2008
B-Winter Breeding Owl *(Late Winter Breeding Owl Survey)*	**Survey Count**: 2	**Obs Count**:	**Recent Survey**: 2014
F-Fish Lentic Seine *(Fish Lentic Seine Survey)*	**Survey Count**: 1	**Obs Count**: 2	**Recent Survey**: 2009
I-Aquatic Invert Lotic Dipnet *(Invertebrate Lotic Site Dipnet and Visual Encounter Survey)*	**Survey Count**: 1	**Obs Count**: 4	**Recent Survey**: 1990
I-Mussel *(Stream Mussel Survey)*	**Survey Count**: 1	**Obs Count**:	**Recent Survey**: 2009
M-Bat Acoustic *(Bat Acoustic Survey)*	**Survey Count**: 3	**Obs Count**: 3	**Recent Survey**: 2008
R-Reptile VES *(Visual Encounter Surveys for Reptiles)*	**Survey Count**: 1	**Obs Count**:	**Recent Survey**: 2008

Environmental Summary

MONTANA
Natural Heritage Program
1515 East 6th Avenue
Helena, MT 59620
(406) 444-0241
mtnhp.org

Latitude	Longitude
48.34194	-108.15104
48.49473	-108.72862



Suggested Citation
Montana Natural Heritage Program. Environmental Summary Report.
for Latitude 48.34194 to 48.49473 and Longitude -108.15104 to -108.72862. Retrieved on 8/14/2017.

The Montana Natural Heritage Program is a program of the Montana State Library's Natural Resource Information System. It is operated as a special program under the Office of the Vice President for Research and Creative Scholarship at the University of Montana, Missoula.

The Montana Natural Heritage Program is part of NatureServe – a network of over 80 similar programs in states, provinces and nations throughout the Western Hemisphere, working to provide comprehensive status and distribution information for species and ecosystems.

Montana Natural Heritage Program · Montana State Library · University of Montana · NatureServe

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Introduction to Environmental Summary Report

The Environmental Summary report for your area of interest consists of introductory and related materials in this PDF and an Excel workbook with worksheets summarizing information managed in the Montana Natural Heritage Program's (MTNHP) databases for: (1) species occurrences; (2) other observed species without Species Occurrences; (3) other species potentially present based on their range, presence of associated habitats, or predictive distribution model output if available; (4) structured surveys (organized efforts following a protocol capable of detecting one or more species); (5) land cover mapped as ecological systems; (6) wetland and riparian mapping; (7) land management categories; and (8) biological reports associated with plant and animal observations. In order to do this in a consistent manner across Montana and allow for rapid delivery of summaries, we have intersected this information with a uniform grid of hexagons that have been used for planning efforts across the western United States (e.g. Western Association of Fish and Wildlife Agencies - Crucial Habitat Assessment Tool). Each hexagon is one square mile in area and approximately one kilometer in length on each side. Summary information for each data layer is then stored with each hexagon and those summaries are added up to an overall summary for the report area you have requested. Users should be aware that summaries do not correspond to the exact boundaries of the polygon they have specified, but instead are a summary across all hexagons intersected by the polygon they specified.

In presenting this information, MTNHP is working towards assisting the user with rapidly assessing the known or potential species and biological communities, land management categories, and biological reports associated with the report area. We remind users that this information is likely incomplete and may be inaccurate as surveys to document species are lacking in many areas of the state, species' range polygons often include regions of unsuitable habitat, methods of predicting the presence of species or communities are constantly improving, and information is constantly being added and updated in our databases. **Field verification by professional biologists of the absence or presence of species and biological communities in a report area will always be an important obligation of users of our data. Users are encouraged to only use this environmental summary report as a starting point for more in depth analyses and are encouraged to contact state, federal, and tribal resource management agencies for additional data or management guidelines relevant to your efforts. Please see the Appendix for introductory materials to each section of the report, additional information resources, and a list of relevant agency contacts.**

MONTANA Natural Heritage Program

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

Legend

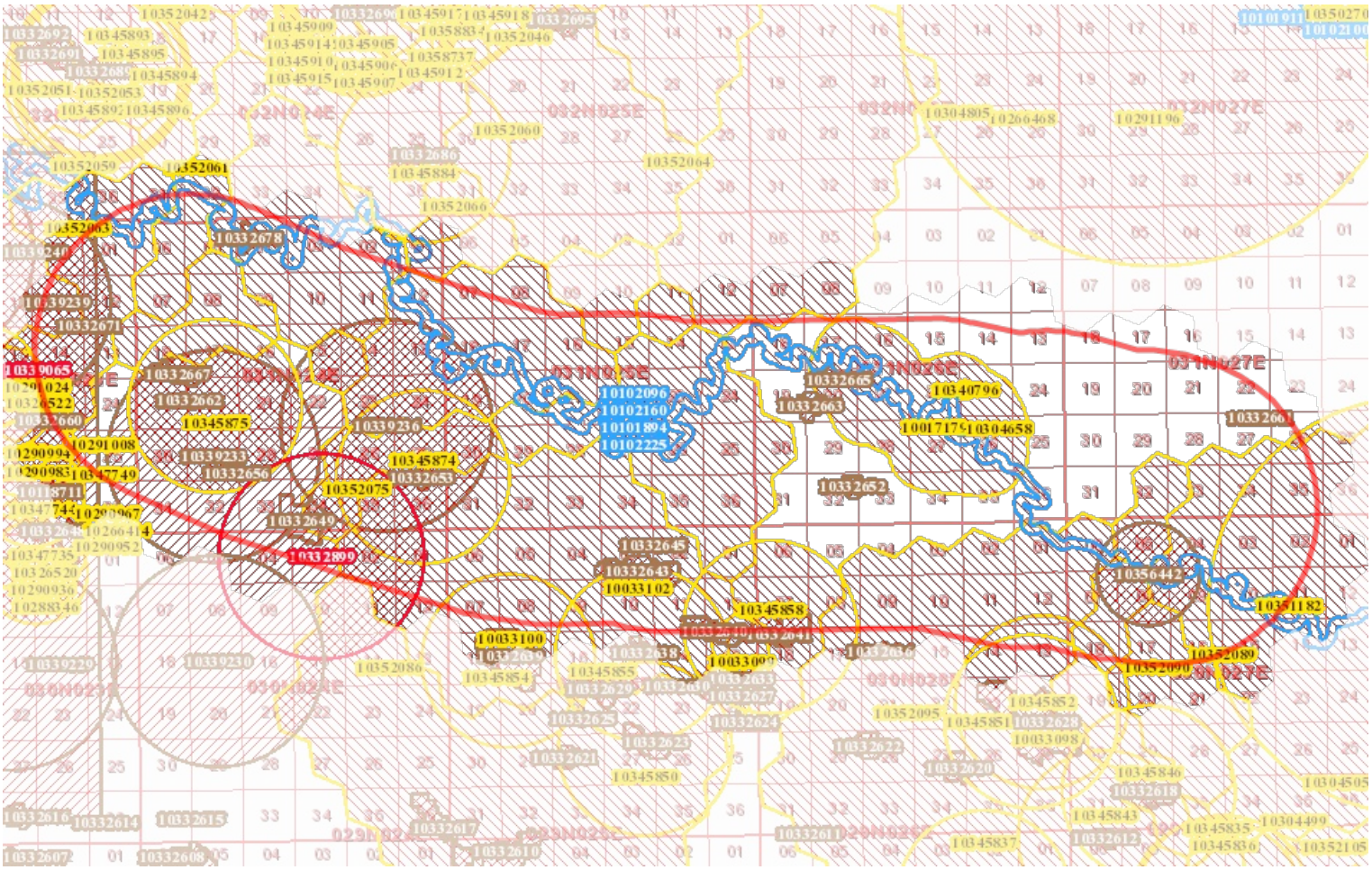
Model Icons	Habitat Icons	Range Icons	Num Obs
N Suitable (native range)	C Common	I Introduced Range	Count of obs with 'good precision' (<=1000m)
O Optimal Suitability	O Occasional	Y Year-round Range	+ indicates additional 'poor precision' obs (1001m-10,000m)
M Moderate Suitability		S Summer Range	
L Low Suitability		W Winter Range	
I Suitable (introduced range)		M Migratory Range	
		H Historic Range	

Latitude	Longitude
48.34194	-108.15104
48.49473	-108.72862

Species Summary

Filtered by:

MT_Status='Species of Concern','Special Status','Important Animal Habitat','Potential SOC'



Species Occurrences

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Iowa Darter *(Etheostoma exile)* SOC	1	+		Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: May 08, 2015)

Predictive Models: N 30% Suitable (native range) (deductive)

F - Northern Pearl Dace *(Margariscus nachtriebi)* SOC	1			Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: Oct 27, 2014)

Predictive Models: N 30% Suitable (native range) (deductive)

F - Northern Redbelly Dace *(Chrosomus eos)* SOC	1	+		Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

Predictive Models: N 30% Suitable (native range) (deductive)

F - Sauger *(Sander canadensis)* SOC

1 + Not Assigned Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

Predictive Models: N 30% Suitable (native range) (deductive)

B - Great Blue Heron *(Ardea herodias)* SOC

1 2 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 6,500 meters in order to be conservative about encompassing the areas commonly used for foraging near the breeding colony and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 30, 2017)

Predictive Models: O 2% Optimal (inductive), M 53% Moderate (inductive), L 36% Low (inductive) **Associated Habitats:** C 12% Common

B - Burrowing Owl *(Athene cunicularia)* SOC

10 7 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC17** USFS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, or territorial adults during the breeding season. Direct observation of a bird or birds at/on a prairie dog town is indirect but sufficient evidence of breeding (b). Point observation location is buffered by a minimum distance of 2,700 meters in order to encompass the maximum foraging distance reported for breeding adults and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 46% Moderate (inductive), L 54% Low (inductive) **Associated Habitats:** C 52% Common, O 4% Occasional

B - Brewer's Sparrow *(Spizella breweri)* SOC

2 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 maximum territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Apr 03, 2017)

Predictive Models: M 45% Moderate (inductive), L 55% Low (inductive) **Associated Habitats:** C 14% Common, O 3% Occasional

M - Little Brown Myotis *(Myotis lucifugus)* SOC

1 3 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, or definitively identified roosting individuals) of adults or juveniles. Point observation location is buffered by a distance of 1,600 meters in order to encompass the greater than 1,500 meters foraging distance reported for the species in New Brunswick, Canada and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When cave locations are involved, point observations are mapped in the center of a one-square mile hexagon to protect the exact location of the cave entrance as per the Federal Cave Resource Protection Act and associated regulations (U.S. Code Title 16 Chapter 63, Code of Federal Regulations Title 43 Subtitle A Part 37). The outer edges of the hexagon are then buffered by a distance of 1,600 meters and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 14, 2017)

Predictive Models: M 41% Moderate (inductive), L 59% Low (inductive) **Associated Habitats:** C 66% Common, O 32% Occasional

B - American Bittern *(Botaurus lentiginosus)* SOC

1 1 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**

Delineation Criteria Wetlands and wetland complexes with evidence of breeding activity buffered by 1,000 meters in order to encompass reported home range sizes. Observations with poor spatial precision where an individual wetland or wetland complex cannot be identified with certainty will be buffered by the locational uncertainty and then an additional 1,000 meters out to a maximum distance of 10,000 meters. (Last Updated: Sep 04, 2014)

Predictive Models: M 39% Moderate (inductive), L 60% Low (inductive) **Associated Habitats:** C 13% Common

B - Loggerhead Shrike *(Lanius ludovicianus)* SOC

2 3 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 300 meters in order to encompass the maximum breeding territory size reported for the species in Alberta and Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 21% Moderate (inductive), L 79% Low (inductive) **Associated Habitats:** C 55% Common, O 32% Occasional

B - Long-billed Curlew *(Numenius americanus)* SOC

5 3 + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 200 meters in order to approximate the breeding territory size reported for the species in Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 15% Moderate (inductive), L 71% Low (inductive) **Associated Habitats:** C 37% Common, O 23% Occasional

R - Plains Hog-nosed Snake *(Heterodon nasicus)* **SOC** 1 + Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2, SGIN**

Delineation Criteria Confirmed breeding area based on the presence of a resident animal of any age. Point observation location is buffered by a minimum distance of 500 meters in order to encompass the maximum summer home range size reported for the congeneric Eastern Hog-nosed Snake and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 20, 2017)

Predictive Models: M 14% Moderate (inductive), L 86% Low (inductive) **Associated Habitats:** C 65% Common, O 1% Occasional

M - Swift Fox *(Vulpes velox)* **SOC** 5 3 + Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G3** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed breeding or continued presence on a home range (e.g., den site, kits, juveniles, pair, large numbers seen over lengthy time period). Point observation location is buffered by a minimum distance of 3,300 meters in order to encompass the maximum home range size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 14% Moderate (inductive), L 86% Low (inductive) **Associated Habitats:** C 37% Common, O 22% Occasional

R - Greater Short-horned Lizard *(Phrynosoma hernandesi)* **SOC** 1 1 Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN**

Delineation Criteria Confirmed breeding area based on the presence of a resident animal of any age. Point observation location is buffered by a minimum distance of 300 meters in order to encompass habitats supporting other individuals and documented distances moved betweeen summer and winter habitats. Otherwise the point observation is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 7% Moderate (inductive), L 76% Low (inductive) **Associated Habitats:** C 54% Common

M - Black-tailed Prairie Dog *(Cynomys ludovicianus)* **SOC** 23 27 + Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Areas with recent evidence of activity (i.e. burrow entrances) visible on the 2005, 2009, 2013, or 2015 National Agricultural Imagery Program (NAIP) aerial color photographic imagery that are within a distance of 200 meters of definitive observations buffered by the locational uncertainty of less than or equal to 1,000 meters. (Last Updated: Apr 20, 2017)

Predictive Models: M 5% Moderate (inductive), L 82% Low (inductive) **Associated Habitats:** C 52% Common, O 35% Occasional

B - Sprague's Pipit *(Anthus spragueii)* **SOC** 3 1 + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G3G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria 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 115 meters in order to encompass the maximum breeding territory sizes reported for the species in Montana and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 28, 2016)

Predictive Models: M 4% Moderate (inductive), L 91% Low (inductive) **Associated Habitats:** C 37% Common, O 6% Occasional

B - Chestnut-collared Longspur *(Calcarius ornatus)* **SOC** 8 + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**

Delineation Criteria 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 115 meters in order to encompass the maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 4% Moderate (inductive), L 68% Low (inductive) **Associated Habitats:** C 38% Common, O 6% Occasional

B - Greater Sage-Grouse *(Centrocercus urophasianus)* **SOC** 12 7 + Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G3G4** State: **S2** USFS: **Sensitive - Known on Forests (BD)** **Sensitive - Suspected on Forests (CG, HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, juveniles, or adults on a lek. Point observations are mapped in the center of a one-square mile hexagon to protect the exact locations of leks. The outer edges of this hexagon are then buffered by a distance of 6,400 meters in order to encompass a body of research indicating that females typically nest within this distance of a lek and that lek numbers are negatively impacted by fossil fuel drilling activities within this distance of a lek. If the locational uncertainty associated with the observation is greater than this distance, it is buffered by the locational up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 12, 2017)

Predictive Models: M 3% Moderate (inductive), L 65% Low (inductive) **Associated Habitats:** C 54% Common, O 1% Occasional

B - Mountain Plover *(Charadrius montanus)* **SOC** 4 3 + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G3** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, or territorial adults during the breeding season. When the observation is within a prairie dog town, the outer boundary of town (currently based on the grid-based delineation of 100m x 100m cells with evidence of prairie dog activity visible in aerial imagery) is used as the delineation of the breeding area. When the observation is not within a prairie dog town, the point observation location is buffered by a minimum distance of 550 meters in order to encompass the maximum brood rearing range size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When prairie dog town boundaries or locational uncertainties associated with point observations overlap they will be merged into a common tracking unit associated with all of the observations contained within the tracking unit. (Last Updated: Jul 14, 2016)

Predictive Models: M 3% Moderate (inductive), L 50% Low (inductive) **Associated Habitats:** C 52% Common, O 1% Occasional

B - McCown's Longspur *(Rhynchophanes mccownii)* **SOC** — # Obs: 1 | Predictive Model: + | Range: S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 02, 2016)

Predictive Models: L 64% Low (inductive) **Associated Habitats:** C 37% Common, O 29% Occasional

M - Black-footed Ferret *(Mustela nigripes)* **SOC** — # Obs: 1 | Predictive Model: 1 | Range: Not Available | Y S W H

View in Field Guide View Associated Habitat View Range Maps

Species of Concern Global: **G1** State: **S1** USFWS: **LE,XN** USFS: **Endangered, Experimental Nonessential on Forests (CG)** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1**

Delineation Criteria U.S. Fish and Wildlife Service Recovery Area boundaries where reintroduction efforts are ongoing. (Last Updated: Nov 16, 2015)

Associated Habitats: C 52% Common, O 1% Occasional

Other Observed Species

	# Obs	Predictive Model	Associated Habitat	Range
B - Bald Eagle *(Haliaeetus leucocephalus)* **SSS**	16			Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Special Status Species Global: **G5** State: **S4** USFWS: **DM; BGEPA; MBTA; BCC10; BCC11; BCC17**
USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** PIF: **2**

Predictive Models: O 1% Optimal (inductive), M 36% Moderate (inductive), L 34% Low (inductive)
Associated Habitats: C 14% Common, O 39% Occasional

A - Northern Leopard Frog *(Lithobates pipiens)* **SOC** — # Obs: 13 | Range: Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

USFS: **Sensitive - Known on Forests (CG, HLC, KOOT)**
Species of Concern Global: **G5** State: **S1,S4** **Sensitive - Suspected on Forests (BRT, FLAT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN1**

Predictive Models: M 54% Moderate (inductive), L 46% Low (inductive) **Associated Habitats:** C 14% Common, O 1% Occasional

M - Silver-haired Bat *(Lasionycteris noctivagans)* **PSOC** — # Obs: 1 | Range: Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Potential Species of Concern Global: **G3G4** State: **S4**

Predictive Models: M 51% Moderate (inductive), L 49% Low (inductive) **Associated Habitats:** C 64% Common, O 26% Occasional

B - Black Tern *(Chlidonias niger)* **SOC** — # Obs: + | Range: S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4G5** State: **S3B** USFWS: **MBTA; BCC11** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: M 2% Moderate (inductive), L 86% Low (inductive) **Associated Habitats:** C 1% Common, O 2% Occasional

B - Common Tern *(Sterna hirundo)* **SOC** — # Obs: 1 | Range: S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: M 2% Moderate (inductive), L 73% Low (inductive) **Associated Habitats:** C 14% Common

B - Ferruginous Hawk *(Buteo regalis)* **SOC** — # Obs: 3 + | Range: S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: M 1% Moderate (inductive), L 64% Low (inductive) **Associated Habitats:** C 55% Common, O 4% Occasional

B - Golden Eagle *(Aquila chrysaetos)* **SOC** — # Obs: 6 + | Range: Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **BGEPA; MBTA; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Predictive Models: L 92% Low (inductive) **Associated Habitats:** C 65% Common, O 32% Occasional

B - Short-eared Owl *(Asio flammeus)* **PSOC** — # Obs: 1 | Predictive Model: Not Available | Range: Y S W M

View in Field Guide View Associated Habitat View Range Maps

Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA; BCC11; BCC17** PIF: **3**

Associated Habitats: C 92% Common, O 4% Occasional

B - Sharp-tailed Grouse *(Tympanuchus phasianellus)* **SOC** — # Obs: + | Predictive Model: Not Available | Range: Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S1,S4** FWP SWAP: **SGCN1** PIF: **2**
Associated Habitats: C 64% Common, O 32% Occasional

B - Franklin's Gull *(Leucophaeus pipixcan)* **SOC** 2 + Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 11% Common, O 68% Occasional

B - Piping Plover *(Charadrius melodus)* **SOC** 1 Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2B** USFWS: **LT; MBTA** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN2** PIF: **1**
Associated Habitats: C 11% Common

B - American White Pelican *(Pelecanus erythrorhynchos)* **SOC** 4 + Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 1% Common

F - Brassy Minnow *(Hybognathus hankinsoni)* **PSOC** 1 + Not Available Not Assigned Y S W

View in Field Guide View Range Maps
Potential Species of Concern Global: **G5** State: **S4**

F - Brook Stickleback *(Culaea inconstans)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide View Range Maps
Potential Species of Concern Global: **G5** State: **S4**

F - Burbot *(Lota lota)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide View Range Maps
Potential Species of Concern Global: **G5** State: **S4**

F - Creek Chub *(Semotilus atromaculatus)* **PSOC** + Not Available Not Assigned Y S W I

View in Field Guide View Range Maps
Potential Species of Concern Global: **G5** State: **S4**

Other Potential Species

Predictive Model | Associated Habitat | Range

B - Bobolink *(Dolichonyx oryzivorus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: O 1% Optimal (inductive), M 54% Moderate (inductive), L 45% Low (inductive)
Associated Habitats: C 78% Common, O 4% Occasional

M - Eastern Red Bat *(Lasiurus borealis)* **PSOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Potential Species of Concern Global: **G3G4** State: **SU**
Predictive Models: O 1% Optimal (inductive), M 44% Moderate (inductive), L 49% Low (inductive)
Associated Habitats: C 14% Common, O 51% Occasional

A - Plains Spadefoot *(Spea bombifrons)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (HLC)** **Sensitive - Suspected on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 49% Moderate (inductive), L 51% Low (inductive) **Associated Habitats:** C 66% Common, O 6% Occasional

A - Great Plains Toad *(Anaxyrus cognatus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Predictive Models: M 46% Moderate (inductive), L 54% Low (inductive) **Associated Habitats:** C 66% Common, O 2% Occasional

B - Black-billed Cuckoo *(Coccyzus erythropthalmus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3, SGIN** PIF: **2**
Predictive Models: M 45% Moderate (inductive), L 49% Low (inductive) **Associated Habitats:** C 12% Common

M - Merriam's Shrew *(Sorex merriami)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 39% Moderate (inductive), L 61% Low (inductive) **Associated Habitats:** C 64% Common, O 1% Occasional

M - Hoary Bat *(Lasiurus cinereus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 36% Moderate (inductive), L 64% Low (inductive) **Associated Habitats:** C 65% Common, O 33% Occasional

B - Red-headed Woodpecker *(Melanerpes erythrocephalus)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 35% Moderate (inductive), L 25% Low (inductive) **Associated Habitats:** C 12% Common, O 1% Occasional

B - Veery *(Catharus fuscescens)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 18% Moderate (inductive), L 41% Low (inductive) **Associated Habitats:** C 12% Common

M - Pygmy Shrew *(Sorex hoyi)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 10% Moderate (inductive), L 77% Low (inductive) **Associated Habitats:** C 6% Common, O 37% Occasional

B - Baird's Sparrow *(Ammodramus bairdii)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Predictive Models: M 4% Moderate (inductive), L 96% Low (inductive) **Associated Habitats:** C 40% Common, O 1% Occasional

B - Sage Thrasher *(Oreoscoptes montanus)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 3% Moderate (inductive), L 87% Low (inductive) **Associated Habitats:** C 13% Common, O 2% Occasional

M - Townsend's Big-eared Bat *(Corynorhinus townsendii)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 3% Moderate (inductive), L 74% Low (inductive) **Associated Habitats:** C 64% Common, O 30% Occasional

B - Black-crowned Night-Heron *(Nycticorax nycticorax)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 3% Moderate (inductive), L 35% Low (inductive) **Associated Habitats:** C 14% Common, O 1% Occasional

M - Preble's Shrew *(Sorex preblei)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 2% Moderate (inductive), L 98% Low (inductive) **Associated Habitats:** C 53% Common

B - Black-necked Stilt *(Himantopus mexicanus)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: L 30% Low (inductive) **Associated Habitats:** C 2% Common, O 2% Occasional

B - Horned Grebe *(Podiceps auritus)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 11% Low (inductive) **Associated Habitats:** C 1% Common, O 2% Occasional

R - Western Milksnake *(Lampropeltis gentilis)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Predictive Models: L 7% Low (inductive) **Associated Habitats:** C 68% Common, O 28% Occasional

B - Peregrine Falcon *(Falco peregrinus)* **SOC**

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **DM; MBTA; BCC10; BCC11; BCC17** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 5% Low (inductive) **Associated Habitats:** C 14% Common, O 37% Occasional

M - Hayden's Shrew *(Sorex haydeni)* **PSOC** Not Available

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 95% Common

M - White-footed Mouse *(Peromyscus leucopus)* **PSOC** Not Available

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4**
Associated Habitats: C 91% Common, O 1% Occasional

B - Common Poorwill *(Phalaenoptilus nuttallii)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 65% Common, O 32% Occasional

M - Porcupine *(Erethizon dorsatum)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** FWP SWAP: **SGIN**
Associated Habitats: C 63% Common, O 1% Occasional

B - Dickcissel *(Spiza americana)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA; BCC11; BCC17**
Associated Habitats: C 55% Common, O 40% Occasional

B - Green-tailed Towhee *(Pipilo chlorurus)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 26% Common, O 39% Occasional

M - Bison *(Bos bison)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2** FWP SWAP: **SGCN2**
Associated Habitats: C 18% Common, O 14% Occasional

B - White-faced Ibis *(Plegadis chihi)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 14% Common, O 1% Occasional

I - Gomphus externus *(Plains Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 13% Common

B - Chimney Swift *(Chaetura pelagica)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G4G5** State: **S3S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 12% Common, O 79% Occasional

M - Grizzly Bear *(Ursus arctos)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2S3** USFWS: **PS: LT; XN; DM** USFS: **Threatened on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2-3**
Associated Habitats: C 12% Common, O 50% Occasional

I - Polygonia progne *(Gray Comma)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2**
Associated Habitats: C 12% Common, O 1% Occasional

B - Ovenbird *(Seiurus aurocapilla)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 12% Common, O 1% Occasional

B - Eastern Screech-Owl *(Megascops asio)* **PSOC** Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 12% Common

B - Hooded Merganser *(Lophodytes cucullatus)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 11% Common, O 3% Occasional

B - Barrow's Goldeneye *(Bucephala islandica)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 11% Common

B - Alder Flycatcher *(Empidonax alnorum)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 10% Common

I - Limenitis arthemis *(Red-spotted Admiral)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 2% Common

I - Argia vivida *(Vivid Dancer)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 13% Occasional

I - Enallagma clausum *(Alkali Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 13% Occasional

B - Caspian Tern *(Hydroprogne caspia)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**
Associated Habitats: C 1% Common, O 13% Occasional

I - Enallagma civile *(Familiar Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 12% Occasional

I - Gomphus graslinellus *(Pronghorn Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 12% Occasional

I - Rhionaeschna multicolor *(Blue-eyed Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 12% Occasional

B - Forster's Tern *(Sterna forsteri)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 1% Common, O 12% Occasional

I - Coenagrion angulatum *(Prairie Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 2% Occasional

I - Aeshna constricta *(Lance-tipped Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Sympetrum madidum *(Red-veined Meadowhawk)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common, O 1% Occasional

B - Clark's Grebe *(Aechmophorus clarkii)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Argia emma *(Emma's Dancer)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common

I - Enallagma praevarum *(Arroyo Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common

B - Evening Grosbeak *(Coccothraustes vespertinus)* **SOC** Not Available W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 1% Common

B - Common Loon *(Gavia immer)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (FLAT, KOOT, LOLO)** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 1% Common

B - Trumpeter Swan *(Cygnus buccinator)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 1% Common

Latitude	Longitude
48.34194	-108.15104
48.49473	-108.72862

Structured Surveys

The Montana Natural Heritage Program (MTNHP) records information on the locations where more than 80 different types of well-defined repeatable survey protocols capable of detecting an animal species or suite of animal species have been conducted by state, federal, tribal, university, or private consulting biologists. Examples of structured survey protocols tracked by MTNHP include: visual encounter and dip net surveys for pond breeding amphibians, point counts for birds, call playback surveys for selected bird species, visual surveys of migrating raptors, kick net stream reach surveys for macroinvertebrates, visual encounter cover object surveys for terrestrial mollusks, bat acoustic or mist net surveys, pitfall and/or snap trap surveys for small terrestrial mammals, track or camera trap surveys for large mammals, and trap surveys for turtles. Whenever possible, photographs of survey locations are stored in MTNHP databases.

MTNHP does not typically manage information on structured surveys for plants; surveys for invasive species may be a future exception.

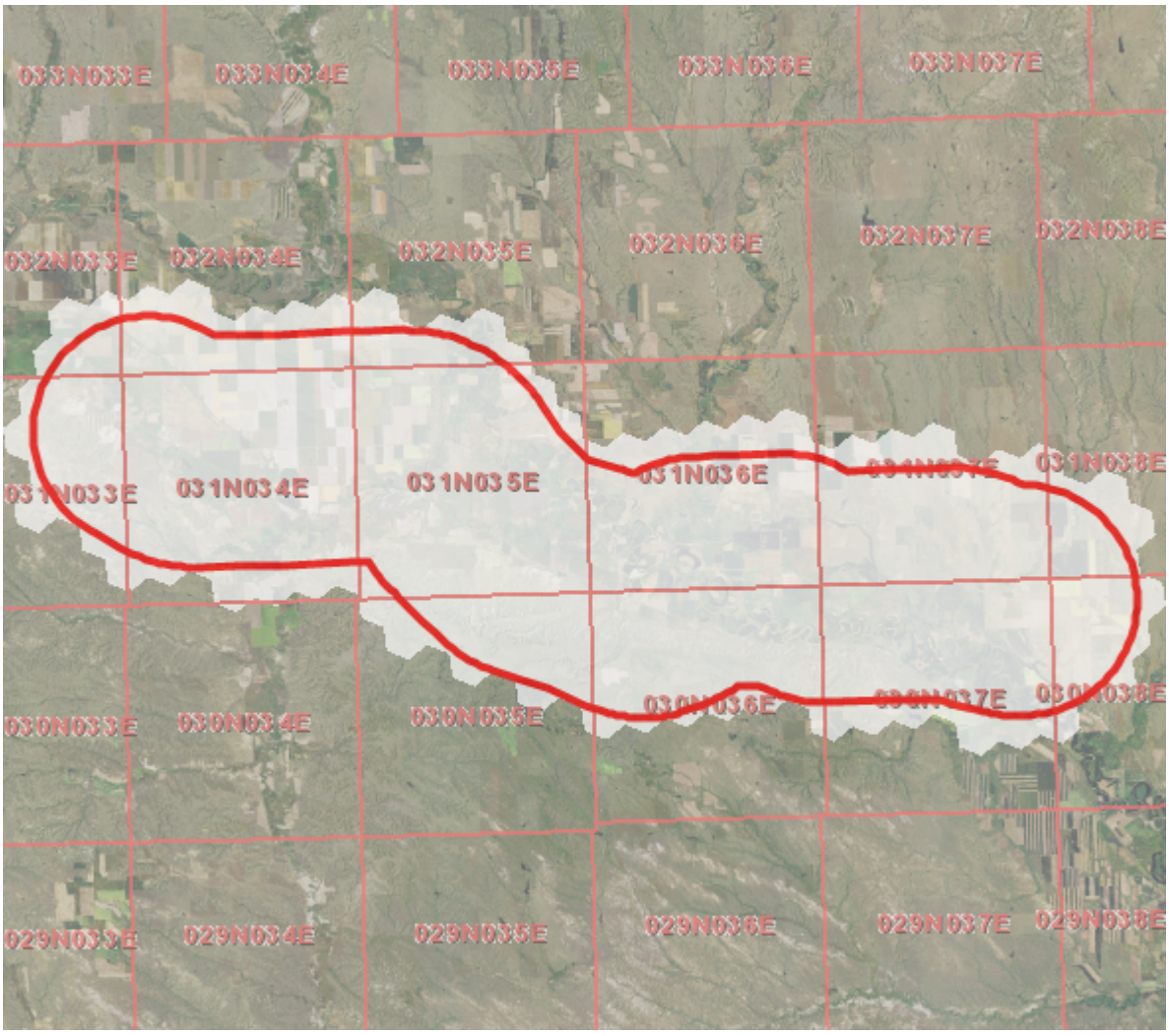
Within the report area you have requested, structured surveys are summarized by the number of each type of structured survey protocol that has been conducted, the number of species detections/observations resulting from these surveys, and the most recent year a survey has been conducted.

A-Nocturnal Calling Amphibian *(Nocturnal Breeding Amphibian Calling Survey)*	**Survey Count**: 4	**Obs Count**: 4	**Recent Survey**: 2007
AR-Amphibian/Reptile Lentic *(Lentic Amphibian/Reptile Surveys)*	**Survey Count**: 4	**Obs Count**: 5	**Recent Survey**: 2015
B-Cuckoo Playback Survey *(Riparian Playback Surveys for Cuckoos)*	**Survey Count**: 1	**Obs Count**:	**Recent Survey**: 2012
B-Long-billed Curlew *(Long-billed Curlew, Road-based, Point Count)*	**Survey Count**: 8	**Obs Count**: 2	**Recent Survey**: 2012
B-Point Count *(Bird Point Count)*	**Survey Count**: 51	**Obs Count**: 527	**Recent Survey**: 2012
B-Sage Grouse Lek *(Greater Sage Grouse Lek Survey)*	**Survey Count**: 6	**Obs Count**: 6	**Recent Survey**: 2001
F-Fish Lentic Seine *(Fish Lentic Seine Survey)*	**Survey Count**: 1	**Obs Count**: 11	**Recent Survey**: 2004
F-Fish Trapping *(Fish Trapping Surveys)*	**Survey Count**: 1	**Obs Count**:	**Recent Survey**: 2003
I-Aquatic Invert Lotic Dipnet *(Invertebrate Lotic Site Dipnet and Visual Encounter Survey)*	**Survey Count**: 2	**Obs Count**: 41	**Recent Survey**: 1996
I-Mussel *(Stream Mussel Survey)*	**Survey Count**: 3	**Obs Count**: 7	**Recent Survey**: 2009
M-Bat Mistnet *(Bat Mistnet Survey)*	**Survey Count**: 2	**Obs Count**: 4	**Recent Survey**: 2004
M-Prairie Dog Ground *(Prairie Dog Town Ground Survey)*	**Survey Count**: 8	**Obs Count**: 8	**Recent Survey**: 2014

Environmental Summary

MONTANA
Natural Heritage Program
1515 East 6th Avenue
Helena, MT 59620
(406) 444-0241
mtnhp.org

Latitude	Longitude
48.33889	-106.77426
48.50501	-107.43998



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The Montana Natural Heritage Program is a program of the Montana State Library's Natural Resource Information System. It is operated as a special program under the Office of the Vice President for Research and Creative Scholarship at the University of Montana, Missoula.

The Montana Natural Heritage Program is part of NatureServe – a network of over 80 similar programs in states, provinces and nations throughout the Western Hemisphere, working to provide comprehensive status and distribution information for species and ecosystems.

Montana Natural Heritage Program · Montana State Library · University of Montana · NatureServe

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Introduction to Environmental Summary Report

The Environmental Summary report for your area of interest consists of introductory and related materials in this PDF and an Excel workbook with worksheets summarizing information managed in the Montana Natural Heritage Program's (MTNHP) databases for: (1) species occurrences; (2) other observed species without Species Occurrences; (3) other species potentially present based on their range, presence of associated habitats, or predictive distribution model output if available; (4) structured surveys (organized efforts following a protocol capable of detecting one or more species); (5) land cover mapped as ecological systems; (6) wetland and riparian mapping; (7) land management categories; and (8) biological reports associated with plant and animal observations. In order to do this in a consistent manner across Montana and allow for rapid delivery of summaries, we have intersected this information with a uniform grid of hexagons that have been used for planning efforts across the western United States (e.g. Western Association of Fish and Wildlife Agencies - Crucial Habitat Assessment Tool). Each hexagon is one square mile in area and approximately one kilometer in length on each side. Summary information for each data layer is then stored with each hexagon and those summaries are added up to an overall summary for the report area you have requested. Users should be aware that summaries do not correspond to the exact boundaries of the polygon they have specified, but instead are a summary across all hexagons intersected by the polygon they specified.

In presenting this information, MTNHP is working towards assisting the user with rapidly assessing the known or potential species and biological communities, land management categories, and biological reports associated with the report area. We remind users that this information is likely incomplete and may be inaccurate as surveys to document species are lacking in many areas of the state, species' range polygons often include regions of unsuitable habitat, methods of predicting the presence of species or communities are constantly improving, and information is constantly being added and updated in our databases. **Field verification by professional biologists of the absence or presence of species and biological communities in a report area will always be an important obligation of users of our data. Users are encouraged to only use this environmental summary report as a starting point for more in depth analyses and are encouraged to contact state, federal, and tribal resource management agencies for additional data or management guidelines relevant to your efforts. Please see the Appendix for introductory materials to each section of the report, additional information resources, and a list of relevant agency contacts.**

MONTANA Natural Heritage Program

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

Legend

Model Icons	Habitat Icons	Range Icons	Num Obs
N Suitable (native range)	C Common	I Introduced Range	Count of obs with 'good precision' (<=1000m)
O Optimal Suitability	O Occasional	Y Year-round Range	+ indicates additional 'poor precision' obs (1001m-10,000m)
M Moderate Suitability		S Summer Range	
L Low Suitability		W Winter Range	
I Suitable (introduced range)		M Migratory Range	
		H Historic Range	

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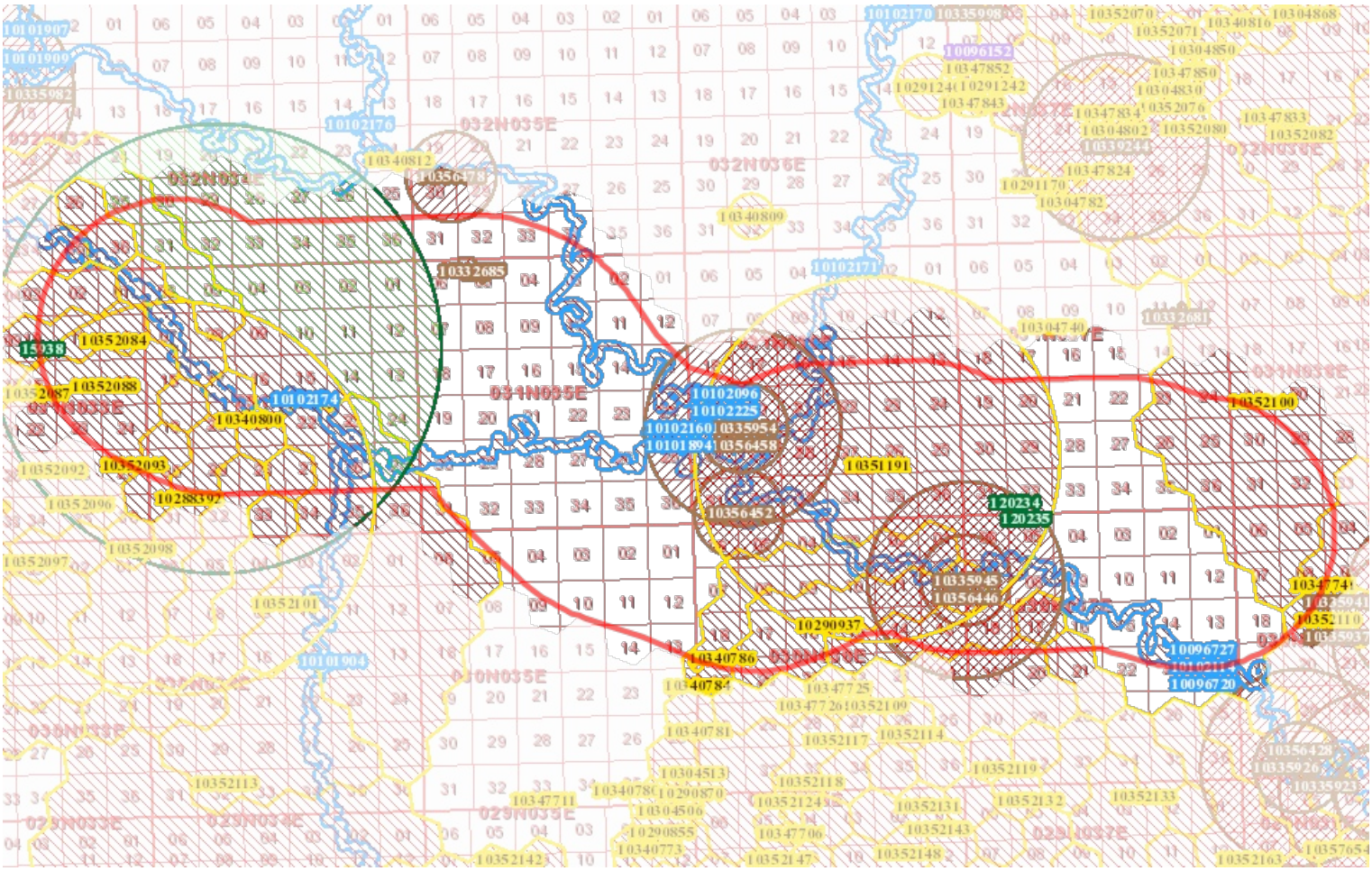
48.33889	-106.77426
48.50501	-107.43998

Species Summary

Filtered by:

MT_Status='Species of Concern','Special Status','Important Animal Habitat','Potential SOC'



Species Occurrences

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Iowa Darter *(Etheostoma exile)* SOC	3	+		Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: May 08, 2015)

Predictive Models: N 34% Suitable (native range) (deductive)

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Northern Redbelly Dace *(Chrosomus eos)* SOC	2			Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

Predictive Models: N 22% Suitable (native range) (deductive)

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Northern Pearl Dace *(Margariscus nachtriebi)* SOC	1			Not Assigned	Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G5** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: Oct 27, 2014)

Predictive Models: N 20% Suitable (native range) (deductive)

F - Sauger *(Sander canadensis)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G5** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

Predictive Models: N 20% Suitable (native range) (deductive)

F - Blue Sucker *(Cycleptus elongatus)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G3G4** State: **S2S3** FWP SWAP: **SGCN2-3**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: May 08, 2015)

Predictive Models: N 7% Suitable (native range) (deductive)

F - Paddlefish *(Polyodon spathula)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G4** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: May 08, 2015)

Predictive Models: N 7% Suitable (native range) (deductive)

F - Pallid Sturgeon *(Scaphirhynchus albus)* **SOC** 1 Not Assigned Y S W M

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G2** State: **S1** USFWS: **LE** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: Jul 12, 2016)

Predictive Models: N 6% Suitable (native range) (deductive)

B - Great Blue Heron *(Ardea herodias)* **SOC** 1 3 S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 6,500 meters in order to be conservative about encompassing the areas commonly used for foraging near the breeding colony and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 30, 2017)

Predictive Models: O 1% Optimal (inductive), M 26% Moderate (inductive), L 37% Low (inductive) **Associated Habitats:** C 6% Common

B - Loggerhead Shrike *(Lanius ludovicianus)* **SOC** 3 3 + S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 300 meters in order to encompass the maximum breeding territory size reported for the species in Alberta and Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 27% Moderate (inductive), L 73% Low (inductive) **Associated Habitats:** C 40% Common, O 52% Occasional

M - Little Brown Myotis *(Myotis lucifugus)* **SOC** 4 6 Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G3** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, or definitively identified roosting individuals) of adults or juveniles. Point observation location is buffered by a distance of 1,600 meters in order to encompass the greater than 1,500 meters foraging distance reported for the species in New Brunswick, Canada and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When cave locations are involved, point observations are mapped in the center of a one-square mile hexagon to protect the exact location of the cave entrance as per the Federal Cave Resource Protection Act and associated regulations (U.S. Code Title 16 Chapter 63, Code of Federal Regulations Title 43 Subtitle A Part 37). The outer edges of the hexagon are then buffered by a distance of 1,600 meters and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 14, 2017)

Predictive Models: M 20% Moderate (inductive), L 73% Low (inductive) **Associated Habitats:** C 45% Common, O 52% Occasional

B - Baird's Sparrow *(Ammodramus bairdii)* **SOC** 2 2 + S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria 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 average breeding territory size of the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 16% Moderate (inductive), L 84% Low (inductive) **Associated Habitats:** C 28% Common, O 1% Occasional

M - Hoary Bat *(Lasiurus cinereus)* **SOC** — 5 — 3 — S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3G4** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, and definitively identified roosting individuals) of adults or juveniles during the active season. Point observation location is buffered by a minimum distance of 3,500 meters in order to be conservative about encompassing the maximum reported foraging distance for the congeneric Lasiurus borealis and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 20, 2017)

Predictive Models: M 13% Moderate (inductive), L 81% Low (inductive) **Associated Habitats:** C 45% Common, O 53% Occasional

B - Sprague's Pipit *(Anthus spragueii)* **SOC** — 8 — 26 — S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria 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 115 meters in order to encompass the maximum breeding territory sizes reported for the species in Montana and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 28, 2016)

Predictive Models: M 10% Moderate (inductive), L 90% Low (inductive) **Associated Habitats:** C 24% Common, O 12% Occasional

B - Chestnut-collared Longspur *(Calcarius ornatus)* **SOC** — 8 — 26 — S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**

Delineation Criteria 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 115 meters in order to encompass the maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 6% Moderate (inductive), L 81% Low (inductive) **Associated Habitats:** C 25% Common, O 11% Occasional

B - Long-billed Curlew *(Numenius americanus)* **SOC** — 3 — 5 — S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 200 meters in order to approximate the breeding territory size reported for the species in Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 3% Moderate (inductive), L 62% Low (inductive) **Associated Habitats:** C 24% Common, O 26% Occasional

B - Greater Sage-Grouse *(Centrocercus urophasianus)* **SOC** — 17 — 18 + — Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

USFS: **Sensitive - Known on Forests (BD)**

Species of Concern Global: **G3G4** State: **S2** **Sensitive - Suspected on Forests (CG, HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, juveniles, or adults on a lek. Point observations are mapped in the center of a one-square mile hexagon to protect the exact locations of leks. The outer edges of this hexagon are then buffered by a distance of 6,400 meters in order to encompass a body of research indicating that females typically nest within this distance of a lek and that lek numbers are negatively impacted by fossil fuel drilling activities within this distance of a lek. If the locational uncertainty associated with the observation is greater than this distance, it is buffered by the locational up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 12, 2017)

Predictive Models: M 1% Moderate (inductive), L 69% Low (inductive) **Associated Habitats:** C 38% Common, O 1% Occasional

M - Black-tailed Prairie Dog *(Cynomys ludovicianus)* **SOC** — 1 — 1 — Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Delineation Criteria Areas with recent evidence of activity (i.e. burrow entrances) visible on the 2005, 2009, 2013, or 2015 National Agricultural Imagery Program (NAIP) aerial color photographic imagery that are within a distance of 200 meters of definitive observations buffered by the locational uncertainty of less than or equal to 1,000 meters. (Last Updated: Apr 20, 2017)

Predictive Models: L 55% Low (inductive) **Associated Habitats:** C 36% Common, O 55% Occasional

V - Ammannia robusta *(Scarlet Ammannia)* **SOC** — 2 — 2 — Not Available

View in Field Guide | View Associated Habitat

Species of Concern Global: **G5** State: **S2**

Delineation Criteria 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.

Associated Habitats: C 1% Common

V - Phacelia thermalis *(Hot Spring Phacelia)* **SOC** — 1 — + — Not Available — Not Assigned

View in Field Guide

Species of Concern Global: **G3G4** State: **S1S3**

Delineation Criteria 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.

Other Observed Species

	# Obs	Predictive Model	Associated Habitat	Range
A - Northern Leopard Frog *(Lithobates pipiens)* **SOC**	12			Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

USFS: **Sensitive - Known on Forests (CG, HLC, KOOT)**

Species of Concern Global: **G5** State: **S1,S4** **Sensitive - Suspected on Forests (BRT, FLAT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN1**

Predictive Models: M 32% Moderate (inductive), L 68% Low (inductive) **Associated Habitats:** C 8% Common, O 1% Occasional

M - Silver-haired Bat *(Lasionycteris noctivagans)* **PSOC**	1			Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G3G4** State: **S4**

Predictive Models: M 28% Moderate (inductive), L 64% Low (inductive) **Associated Habitats:** C 44% Common, O 42% Occasional

M - Swift Fox *(Vulpes velox)* **SOC**	3 +			Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Predictive Models: M 19% Moderate (inductive), L 81% Low (inductive) **Associated Habitats:** C 24% Common, O 26% Occasional

B - Bald Eagle *(Haliaeetus leucocephalus)* **SSS**	29 +			Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Special Status Species Global: **G5** State: **S4** USFWS: **DM; BGEPA; MBTA; BCC10; BCC11; BCC17**

USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** PIF: **2**

Predictive Models: M 18% Moderate (inductive), L 32% Low (inductive) **Associated Habitats:** C 7% Common, O 25% Occasional

B - American Bittern *(Botaurus lentiginosus)* **SOC**	1			S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**

Predictive Models: M 17% Moderate (inductive), L 77% Low (inductive) **Associated Habitats:** C 7% Common

B - Golden Eagle *(Aquila chrysaetos)* **SOC**	7 +			Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **BGEPA; MBTA; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Predictive Models: M 1% Moderate (inductive), L 60% Low (inductive) **Associated Habitats:** C 44% Common, O 52% Occasional

B - Peregrine Falcon *(Falco peregrinus)* **SOC**	1			Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3** USFWS: **DM; MBTA; BCC10; BCC11; BCC17**

USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: L 24% Low (inductive) **Associated Habitats:** C 8% Common, O 24% Occasional

B - Short-eared Owl *(Asio flammeus)* **PSOC**	5	Not Available		Y S W M

View in Field Guide | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA; BCC11; BCC17** PIF: **3**

Associated Habitats: C 87% Common, O 10% Occasional

B - Sharp-tailed Grouse *(Tympanuchus phasianellus)* **SOC**	4	Not Available		Y S W

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S1,S4** FWP SWAP: **SGCN1** PIF: **2**

Associated Habitats: C 44% Common, O 52% Occasional

I - Gomphus externus *(Plains Clubtail)* **PSOC**	1	Not Available		Y S W

View in Field Guide | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G5** State: **S2S4**

Associated Habitats: C 7% Common

B - Ovenbird *(Seiurus aurocapilla)* **PSOC**	1	Not Available		S M

View in Field Guide | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**

Associated Habitats: C 6% Common, O 1% Occasional

B - Eastern Screech-Owl *(Megascops asio)* **PSOC**	1	Not Available		Y S W M

View in Field Guide | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G5** State: **S3S4** USFWS: **MBTA** PIF: **3**

Associated Habitats: C 6% Common

B - Franklin's Gull *(Leucophaeus pipixcan)* **SOC**	2	Not Available		S M

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Associated Habitats: C 5% Common, O 69% Occasional

I - Argia emma *(Emma's Dancer)* **PSOC**	2	Not Available		Y S W

View in Field Guide | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G5** State: **S3S5**

Associated Habitats: C 1% Common

B - American White Pelican *(Pelecanus erythrorhynchos)* **SOC** 6 Not Available M

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**

Associated Habitats: C 1% Common

B - Common Loon *(Gavia immer)* **SOC** 1 Not Available M

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (FLAT, KOOT, LOLO)** FWP SWAP: **SGCN3** PIF: **1**

Associated Habitats: C 1% Common

F - Brassy Minnow *(Hybognathus hankinsoni)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide | View Range Maps

Potential Species of Concern Global: **G5** State: **S4**

F - Burbot *(Lota lota)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide | View Range Maps

Potential Species of Concern Global: **G5** State: **S4**

F - Plains Minnow *(Hybognathus placitus)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide | View Range Maps

Potential Species of Concern Global: **G4** State: **S4**

B - Northern Goshawk *(Accipiter gentilis)* **SOC** 1 Not Available Not Assigned W M

View in Field Guide | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **2**

F - Creek Chub *(Semotilus atromaculatus)* **PSOC** + Not Available Not Assigned Y S W I

View in Field Guide | View Range Maps

Potential Species of Concern Global: **G5** State: **S4**

V - Atriplex suckleyi *(Suckley's Saltbush)* **PSOC** 1 Not Available Not Assigned

View in Field Guide

Potential Species of Concern Global: **G4** State: **S3S4**

Other Potential Species

Predictive Model | Associated Habitat | Range

B - Black-billed Cuckoo *(Coccyzus erythropthalmus)* **SOC** S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3, SGIN** PIF: **2**

Predictive Models: O 7% Optimal (inductive), M 28% Moderate (inductive), L 51% Low (inductive) **Associated Habitats:** C 6% Common

B - Bobolink *(Dolichonyx oryzivorus)* **SOC** S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**

Predictive Models: O 6% Optimal (inductive), M 63% Moderate (inductive), L 30% Low (inductive)
Associated Habitats: C 73% Common, O 10% Occasional

B - Red-headed Woodpecker *(Melanerpes erythrocephalus)* **SOC** S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: O 4% Optimal (inductive), M 27% Moderate (inductive), L 15% Low (inductive) **Associated Habitats:** C 6% Common, O 1% Occasional

M - Eastern Red Bat *(Lasiurus borealis)* **PSOC** S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G3G4** State: **SU**

Predictive Models: M 35% Moderate (inductive), L 56% Low (inductive) **Associated Habitats:** C 7% Common, O 36% Occasional

B - Burrowing Owl *(Athene cunicularia)* **SOC** S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC17** USFS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Predictive Models: M 24% Moderate (inductive), L 75% Low (inductive) **Associated Habitats:** C 36% Common, O 10% Occasional

A - Plains Spadefoot *(Spea bombifrons)* **SOC** Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (HLC)** **Sensitive - Suspected on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Predictive Models: M 19% Moderate (inductive), L 78% Low (inductive) **Associated Habitats:** C 44% Common, O 12% Occasional

B - Brewer's Sparrow *(Spizella breweri)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 18% Moderate (inductive), L 82% Low (inductive) **Associated Habitats:** C 11% Common, O 3% Occasional

M - Pygmy Shrew *(Sorex hoyi)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 15% Moderate (inductive), L 76% Low (inductive) **Associated Habitats:** C 12% Common, O 24% Occasional

M - Preble's Shrew *(Sorex preblei)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 14% Moderate (inductive), L 84% Low (inductive) **Associated Habitats:** C 38% Common

A - Great Plains Toad *(Anaxyrus cognatus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Predictive Models: M 11% Moderate (inductive), L 78% Low (inductive) **Associated Habitats:** C 44% Common, O 2% Occasional

R - Plains Hog-nosed Snake *(Heterodon nasicus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2, SGIN**
Predictive Models: M 7% Moderate (inductive), L 87% Low (inductive) **Associated Habitats:** C 43% Common, O 1% Occasional

B - Veery *(Catharus fuscescens)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 7% Moderate (inductive), L 21% Low (inductive) **Associated Habitats:** C 6% Common

M - Townsend's Big-eared Bat *(Corynorhinus townsendii)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 4% Moderate (inductive), L 35% Low (inductive) **Associated Habitats:** C 42% Common, O 44% Occasional

B - Black-necked Stilt *(Himantopus mexicanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 3% Moderate (inductive), L 19% Low (inductive) **Associated Habitats:** C 2% Common, O 2% Occasional

B - Sage Thrasher *(Oreoscoptes montanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 2% Moderate (inductive), L 83% Low (inductive) **Associated Habitats:** C 11% Common, O 2% Occasional

B - Common Tern *(Sterna hirundo)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 1% Moderate (inductive), L 81% Low (inductive) **Associated Habitats:** C 7% Common

R - Greater Short-horned Lizard *(Phrynosoma hernandesi)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (CG) Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN**
Predictive Models: M 1% Moderate (inductive), L 59% Low (inductive) **Associated Habitats:** C 39% Common

B - Mountain Plover *(Charadrius montanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**
Predictive Models: M 1% Moderate (inductive), L 23% Low (inductive) **Associated Habitats:** C 36% Common, O 1% Occasional

B - Black Tern *(Chlidonias niger)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4G5** State: **S3B** USFWS: **MBTA; BCC11** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 73% Low (inductive) **Associated Habitats:** C 1% Common, O 2% Occasional

B - Ferruginous Hawk *(Buteo regalis)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 57% Low (inductive) **Associated Habitats:** C 40% Common, O 10% Occasional

B - McCown's Longspur *(Rhynchophanes mccownii)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 57% Low (inductive) **Associated Habitats:** C 24% Common, O 43% Occasional

B - Horned Grebe *(Podiceps auritus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 19% Low (inductive) **Associated Habitats:** C 1% Common, O 2% Occasional

B - Black-crowned Night-Heron *(Nycticorax nycticorax)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: L 1% Low (inductive) **Associated Habitats:** C 7% Common, O 1% Occasional

M - Hayden's Shrew *(Sorex haydeni)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 95% Common

M - White-footed Mouse *(Peromyscus leucopus)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4**
Associated Habitats: C 86% Common

R - Western Milksnake *(Lampropeltis gentilis)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Associated Habitats: C 52% Common, O 43% Occasional

B - Eastern Bluebird *(Sialia sialis)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA**
Associated Habitats: C 52% Common, O 1% Occasional

B - Common Poorwill *(Phalaenoptilus nuttallii)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 44% Common, O 53% Occasional

M - Porcupine *(Erethizon dorsatum)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** FWP SWAP: **SGIN**
Associated Habitats: C 43% Common, O 1% Occasional

B - Dickcissel *(Spiza americana)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA; BCC11; BCC17**
Associated Habitats: C 41% Common, O 53% Occasional

M - Black-footed Ferret *(Mustela nigripes)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G1** State: **S1** USFWS: **LE,XN** USFS: **Endangered, Experimental Nonessential on Forests (CG)** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1**
Associated Habitats: C 36% Common, O 1% Occasional

M - Bison *(Bos bison)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2** FWP SWAP: **SGCN2**
Associated Habitats: C 14% Common, O 14% Occasional

M - Grizzly Bear *(Ursus arctos)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2S3** USFWS: **PS: LT; XN; DM** USFS: **Threatened on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2-3**
Associated Habitats: C 8% Common, O 35% Occasional

B - Whooping Crane *(Grus americana)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G1** State: **S1M** USFWS: **LE; MBTA** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1**
Associated Habitats: C 7% Common, O 43% Occasional

B - White-faced Ibis *(Plegadis chihi)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 7% Common, O 1% Occasional

B - Chimney Swift *(Chaetura pelagica)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G4G5** State: **S3S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 6% Common, O 79% Occasional

I - Lethe eurydice *(Eyed Brown)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 6% Common, O 24% Occasional

I - Polygonia progne *(Gray Comma)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2**
Associated Habitats: C 6% Common, O 1% Occasional

B - Black-and-white Warbler *(Mniotilta varia)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA**
Associated Habitats: C 6% Common, O 1% Occasional

B - Hooded Merganser *(Lophodytes cucullatus)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 5% Common, O 3% Occasional

B - Piping Plover *(Charadrius melodus)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2B** USFWS: **LT; MBTA** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN2** PIF: **1**
Associated Habitats: C 5% Common

B - Barrow's Goldeneye *(Bucephala islandica)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 5% Common

B - Alder Flycatcher *(Empidonax alnorum)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 4% Common

I - Limenitis arthemis *(Red-spotted Admiral)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 2% Common

I - Enallagma clausum *(Alkali Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 7% Occasional

B - Caspian Tern *(Hydroprogne caspia)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**
Associated Habitats: C 1% Common, O 7% Occasional

I - Enallagma civile *(Familiar Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 6% Occasional

I - Gomphus graslinellus *(Pronghorn Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common, O 6% Occasional

I - Rhionaeschna multicolor *(Blue-eyed Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 6% Occasional

B - Forster's Tern *(Sterna forsteri)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 1% Common, O 6% Occasional

I - Coenagrion angulatum *(Prairie Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 2% Occasional

I - Aeshna constricta *(Lance-tipped Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Sympetrum madidum *(Red-veined Meadowhawk)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common, O 1% Occasional

B - Clark's Grebe *(Aechmophorus clarkii)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 1% Common, O 1% Occasional

I - Enallagma praevarum *(Arroyo Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 1% Common

B - Evening Grosbeak *(Coccothraustes vespertinus)* **SOC** Not Available W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 1% Common

B - Trumpeter Swan *(Cygnus buccinator)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 1% Common

Latitude	Longitude
48.33889	-106.77426
48.50501	-107.43998

Structured Surveys

The Montana Natural Heritage Program (MTNHP) records information on the locations where more than 80 different types of well-defined repeatable survey protocols capable of detecting an animal species or suite of animal species have been conducted by state, federal, tribal, university, or private consulting biologists. Examples of structured survey protocols tracked by MTNHP include: visual encounter and dip net surveys for pond breeding amphibians, point counts for birds, call playback surveys for selected bird species, visual surveys of migrating raptors, kick net stream reach surveys for macroinvertebrates, visual encounter cover object surveys for terrestrial mollusks, bat acoustic or mist net surveys, pitfall and/or snap trap surveys for small terrestrial mammals, track or camera trap surveys for large mammals, and trap surveys for turtles. Whenever possible, photographs of survey locations are stored in MTNHP databases.

MTNHP does not typically manage information on structured surveys for plants; surveys for invasive species may be a future exception.

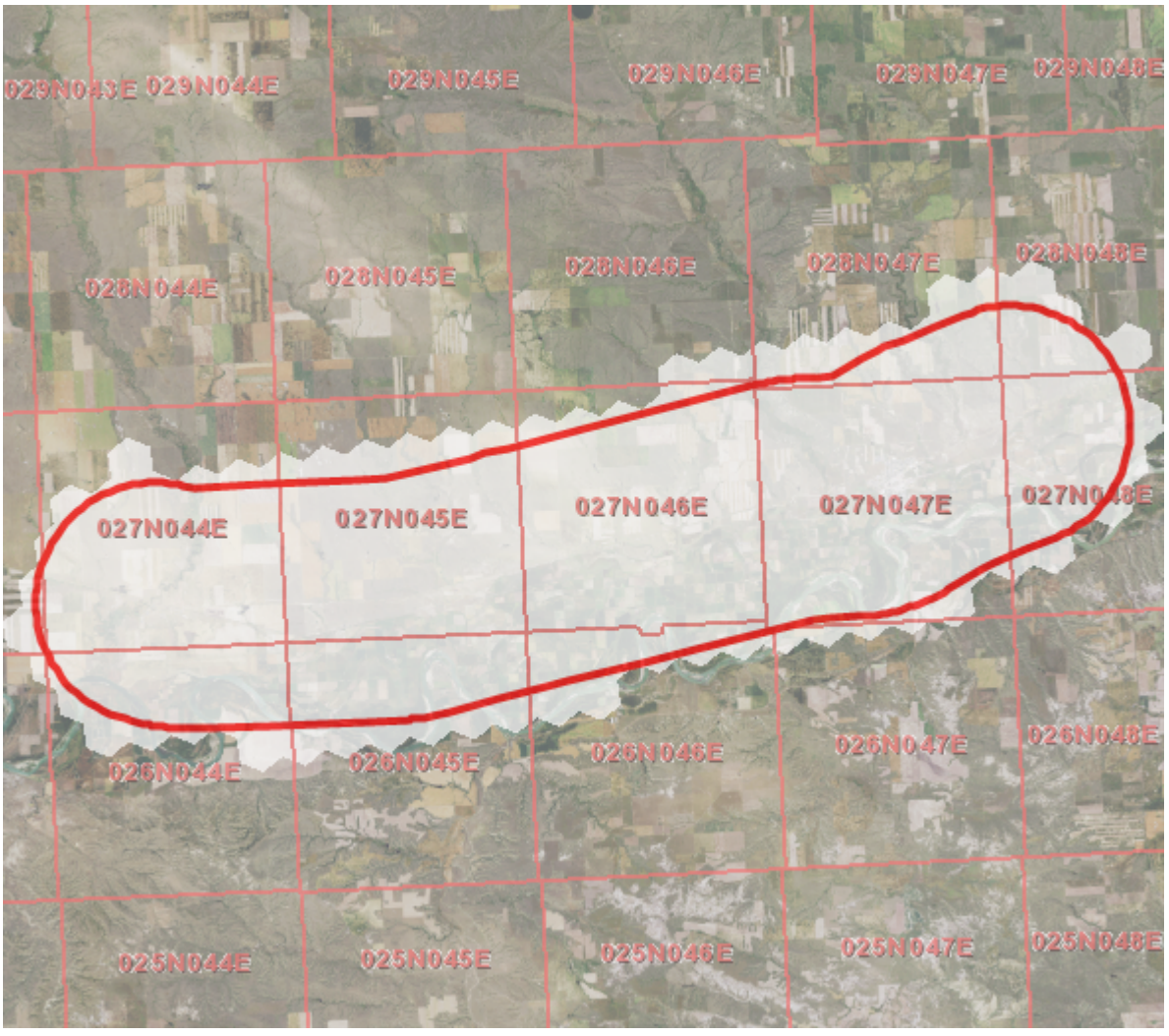
Within the report area you have requested, structured surveys are summarized by the number of each type of structured survey protocol that has been conducted, the number of species detections/observations resulting from these surveys, and the most recent year a survey has been conducted.

A-Nocturnal Calling Amphibian *(Nocturnal Breeding Amphibian Calling Survey)*	**Survey Count**: 6	**Obs Count**: 6	**Recent Survey**: 2007
AR-Amphibian/Reptile Lentic *(Lentic Amphibian/Reptile Surveys)*	**Survey Count**: 2	**Obs Count**: 2	**Recent Survey**: 2009
B-Cuckoo Playback Survey *(Riparian Playback Surveys for Cuckoos)*	**Survey Count**: 5	**Obs Count**:	**Recent Survey**: 2012
B-Point Count *(Bird Point Count)*	**Survey Count**: 123	**Obs Count**: 1137	**Recent Survey**: 2012
B-Sage Grouse Lek *(Greater Sage Grouse Lek Survey)*	**Survey Count**: 13	**Obs Count**: 13	**Recent Survey**: 2011
B-Winter Breeding Owl *(Late Winter Breeding Owl Survey)*	**Survey Count**: 6	**Obs Count**: 2	**Recent Survey**: 2014
F-Fish Trapping *(Fish Trapping Surveys)*	**Survey Count**: 1	**Obs Count**:	**Recent Survey**: 2003
I-Bumble Bee *(Bumble Bee Collection Surveys)*	**Survey Count**: 6	**Obs Count**: 11	**Recent Survey**: 2015
I-Mussel *(Stream Mussel Survey)*	**Survey Count**: 2	**Obs Count**: 5	**Recent Survey**: 2006
M-Bat Acoustic *(Bat Acoustic Survey)*	**Survey Count**: 4	**Obs Count**: 11	**Recent Survey**: 2011
M-Bat Mistnet *(Bat Mistnet Survey)*	**Survey Count**: 2	**Obs Count**: 2	**Recent Survey**: 2006

Environmental Summary

MONTANA
Natural Heritage Program
1515 East 6th Avenue
Helena, MT 59620
(406) 444-0241
mtnhp.org

Latitude	Longitude
48.00309	-105.49134
48.16757	-106.12829



Suggested Citation

Montana Natural Heritage Program. Environmental Summary Report.
for Latitude 48.00309 to 48.16757 and Longitude -105.49134 to -106.12829. Retrieved on 8/14/2017.

The Montana Natural Heritage Program is a program of the Montana State Library's Natural Resource Information System. It is operated as a special program under the Office of the Vice President for Research and Creative Scholarship at the University of Montana, Missoula.

The Montana Natural Heritage Program is part of NatureServe – a network of over 80 similar programs in states, provinces and nations throughout the Western Hemisphere, working to provide comprehensive status and distribution information for species and ecosystems.

Montana Natural Heritage Program · Montana State Library · University of Montana · NatureServe

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Introduction to Environmental Summary Report

The Environmental Summary report for your area of interest consists of introductory and related materials in this PDF and an Excel workbook with worksheets summarizing information managed in the Montana Natural Heritage Program's (MTNHP) databases for: (1) species occurrences; (2) other observed species without Species Occurrences; (3) other species potentially present based on their range, presence of associated habitats, or predictive distribution model output if available; (4) structured surveys (organized efforts following a protocol capable of detecting one or more species); (5) land cover mapped as ecological systems; (6) wetland and riparian mapping; (7) land management categories; and (8) biological reports associated with plant and animal observations. In order to do this in a consistent manner across Montana and allow for rapid delivery of summaries, we have intersected this information with a uniform grid of hexagons that have been used for planning efforts across the western United States (e.g. Western Association of Fish and Wildlife Agencies - Crucial Habitat Assessment Tool). Each hexagon is one square mile in area and approximately one kilometer in length on each side. Summary information for each data layer is then stored with each hexagon and those summaries are added up to an overall summary for the report area you have requested. Users should be aware that summaries do not correspond to the exact boundaries of the polygon they have specified, but instead are a summary across all hexagons intersected by the polygon they specified.

In presenting this information, MTNHP is working towards assisting the user with rapidly assessing the known or potential species and biological communities, land management categories, and biological reports associated with the report area. We remind users that this information is likely incomplete and may be inaccurate as surveys to document species are lacking in many areas of the state, species' range polygons often include regions of unsuitable habitat, methods of predicting the presence of species or communities are constantly improving, and information is constantly being added and updated in our databases. **Field verification by professional biologists of the absence or presence of species and biological communities in a report area will always be an important obligation of users of our data. Users are encouraged to only use this environmental summary report as a starting point for more in depth analyses and are encouraged to contact state, federal, and tribal resource management agencies for additional data or management guidelines relevant to your efforts. Please see the Appendix for introductory materials to each section of the report, additional information resources, and a list of relevant agency contacts.**

MONTANA Natural Heritage Program

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

Legend

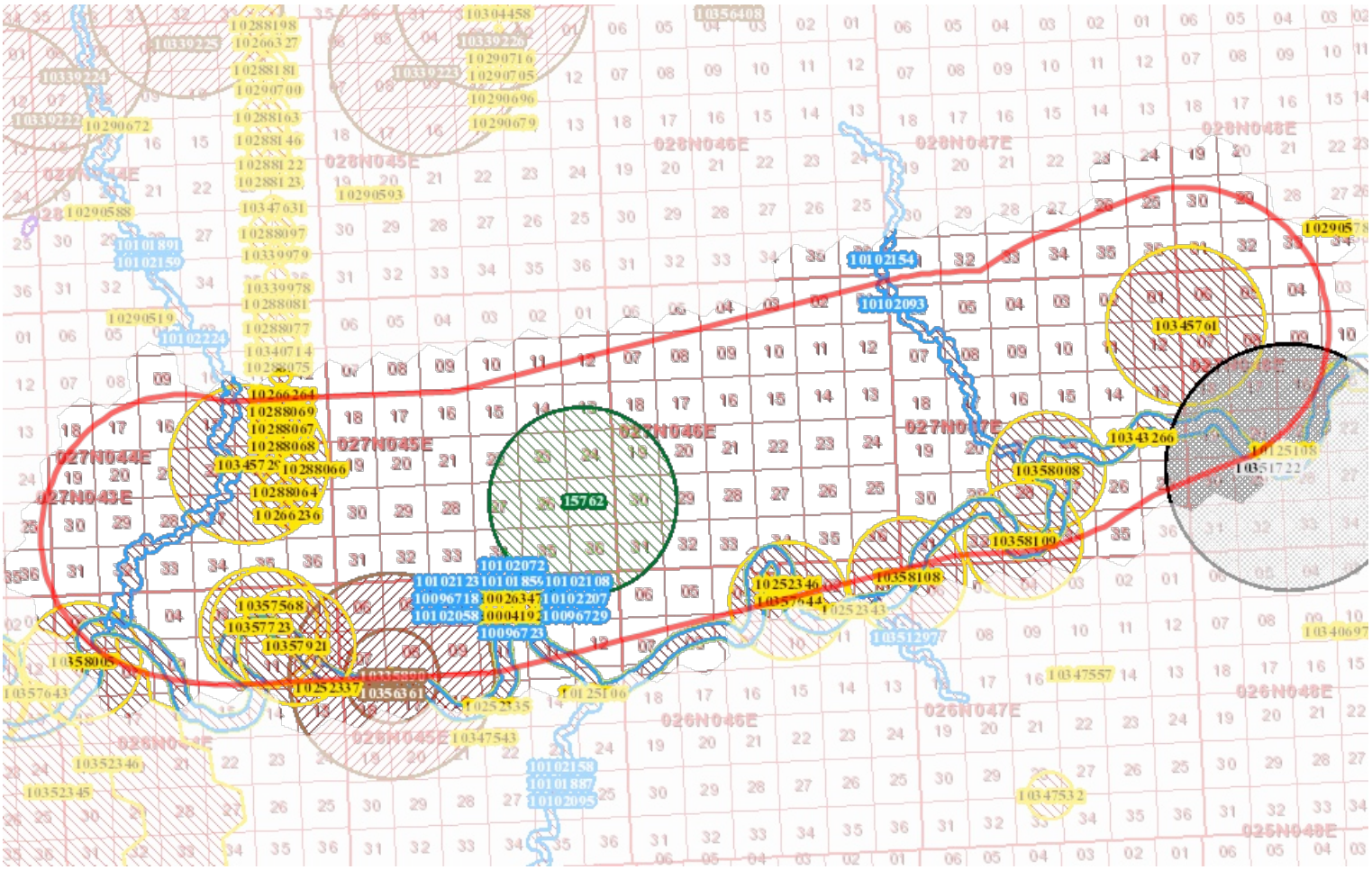
Model Icons	Habitat Icons	Range Icons	Num Obs
N Suitable (native range)	C Common	I Introduced Range	Count of obs with 'good precision' (<=1000m)
O Optimal Suitability	O Occasional	Y Year-round Range	+ indicates additional 'poor precision' obs (1001m-10,000m)
M Moderate Suitability		S Summer Range	
L Low Suitability		W Winter Range	
I Suitable (introduced range)		M Migratory Range	
		H Historic Range	

Latitude	Longitude
48.00309	-105.49134
48.16757	-106.12829

Species Summary

Filtered by:

MT_Status='Species of Concern','Special Status','Important Animal Habitat','Potential SOC'



Species Occurrences

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Sauger *(Sander canadensis)* **SOC**	3	+		Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

Predictive Models: N 28% Suitable (native range) (deductive)

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Iowa Darter *(Etheostoma exile)* **SOC**	2	+		Not Assigned	Y S W

View in Field Guide | View Predicted Models | View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: May 08, 2015)

Predictive Models: N 25% Suitable (native range) (deductive)

	# SO	# Obs	Predictive Model	Associated Habitat	Range
F - Blue Sucker *(Cycleptus elongatus)* **SOC**	1	+		Not Assigned	Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G3G4** State: **S2S3** FWP SWAP: **SGCN2-3**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: May 08, 2015)

Predictive Models: N 24% Suitable (native range) (deductive)

F - Northern Redbelly Dace *(Chrosomus eos)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria 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. (Last Updated: Jul 07, 2017)

Predictive Models: N 24% Suitable (native range) (deductive)

F - Paddlefish *(Polyodon spathula)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G4** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: May 08, 2015)

Predictive Models: N 24% Suitable (native range) (deductive)

F - Pallid Sturgeon *(Scaphirhynchus albus)* **SOC** 1 + Not Assigned Y S W M

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G2** State: **S1** USFWS: **LE** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: Jul 12, 2016)

Predictive Models: N 24% Suitable (native range) (deductive)

F - Shortnose Gar *(Lepisosteus platostomus)* **SOC** 1 Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G5** State: **S1** FWP SWAP: **SGCN1**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: May 08, 2015)

Predictive Models: N 24% Suitable (native range) (deductive)

F - Sicklefin Chub *(Macrhybopsis meeki)* **SOC** 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G3** State: **S1** FWP SWAP: **SGCN1**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: Oct 27, 2014)

Predictive Models: N 24% Suitable (native range) (deductive)

F - Sturgeon Chub *(Macrhybopsis gelida)* **SOC** 1 1 + Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G3** State: **S2S3** BLM: **SENSITIVE** FWP SWAP: **SGCN2-3**

Delineation Criteria Stream reaches 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 into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: Oct 27, 2014)

Predictive Models: N 24% Suitable (native range) (deductive)

F - Northern Pearl Dace *(Margariscus nachtriebi)* **SOC** 1 Not Assigned Y S W

View in Field Guide View Predicted Models View Range Maps

Species of Concern Global: **G5** State: **S2** BLM: **SENSITIVE** FWP SWAP: **SGCN2**

Delineation Criteria 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. (Last Updated: Oct 27, 2014)

Predictive Models: N 6% Suitable (native range) (deductive)

B - Black-billed Cuckoo *(Coccyzus erythropthalmus)* **SOC** 1 1 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3, SGIN** PIF: **2**

Delineation Criteria Observations with evidence of breeding activity buffered by a minimum distance of 300 meters in order to be conservative about encompassing home ranges and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 09, 2015)

Predictive Models: O 25% Optimal (inductive), M 27% Moderate (inductive), L 47% Low (inductive) **Associated Habitats:** C 12% Common

B - Red-headed Woodpecker *(Melanerpes erythrocephalus)* **SOC** 5 6+ S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 165 meters in order to encompass the maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 01, 2016)

Predictive Models: O 13% Optimal (inductive), M 27% Moderate (inductive), L 15% Low (inductive)
Associated Habitats: C 12% Common, O 1% Occasional

B - Least Tern *(Sternula antillarum)* **SOC** 1 29 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S1B** USFWS: **LE; MBTA** USFS: **Endangered on Forests (CG)** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1, SGIN** PIF: **1**

Delineation Criteria Stream reaches with confirmed breeding based on the presence of a nest, chicks, or territorial adults during the breeding season or where breeding effort is believed to occur due to confirmed effort in adjacent areas. In order to reflect the importance of adjacent terrestrial habitats in the maintenance of natural flood plain dynamics which the species depends on, stream reaches are buffered 100 meters into the terrestrial habitat based on PACFISH/INFISH Riparian Conservation Area standards. (Last Updated: Jan 20, 2016)

Predictive Models: O 4% Optimal (inductive), M 12% Moderate (inductive), L 20% Low (inductive)
Associated Habitats: C 13% Common, O 1% Occasional

B - Burrowing Owl *(Athene cunicularia)* **SOC** 2 3 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC17** USFS: **Sensitive - Known on Forests (CG) Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, or territorial adults during the breeding season. Direct observation of a bird or birds at/on a prairie dog town is indirect but sufficient evidence of breeding (b). Point observation location is buffered by a minimum distance of 2,700 meters in order to encompass the maximum foraging distance reported for breeding adults and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: O 1% Optimal (inductive), M 30% Moderate (inductive), L 69% Low (inductive)
Associated Habitats: C 34% Common, O 3% Occasional

B - Bald Eagle *(Haliaeetus leucocephalus)* **SSS** 8 23 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Special Status Species Global: **G5** State: **S4** USFWS: **DM; BGEPA; MBTA; BCC10; BCC11; BCC17**
USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** PIF: **2**

Delineation Criteria Confirmed nesting area buffered by a minimum distance of 2,000 meters in order to be conservative about encompassing the breeding territory and area commonly used for renesting and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jul 21, 2017)

Predictive Models: O 1% Optimal (inductive), M 22% Moderate (inductive), L 29% Low (inductive)
Associated Habitats: C 14% Common, O 25% Occasional

B - Piping Plover *(Charadrius melodus)* **SOC** 1 2 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3** State: **S2B** USFWS: **LT; MBTA** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN2** PIF: **1**

Delineation Criteria Streams or standing water bodies with confirmed breeding based on the presence of a nest, chicks, or territorial adults during the breeding season or where breeding effort is believed to occur due to confirmed effort in adjacent areas or areas designated as Critical Habitat for the species by the U.S. Fish and Wildlife Service. In order to reflect the importance of adjacent terrestrial habitats in the maintenance of natural flood plain dynamics which the species depends on, stream reaches are buffered by 100 meters into the terrestrial habitat. Where breeding is confirmed on the shorelines of standing water bodies, high water areas are buffered by 40 meters, the median distance documented in Montana for nesting or brood rearing, and then buffered again by 100 meters in order to reflect the importance of nest disturbance on reproductive success. (Last Updated: Dec 23, 2016)

Predictive Models: O 1% Optimal (inductive), M 7% Moderate (inductive), L 17% Low (inductive) **Associated Habitats:** C 13% Common

B - Loggerhead Shrike *(Lanius ludovicianus)* **SOC** 1 1 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 300 meters in order to encompass the maximum breeding territory size reported for the species in Alberta and Idaho and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 71% Moderate (inductive), L 29% Low (inductive) **Associated Habitats:** C 39% Common, O 46% Occasional

M - Hoary Bat *(Lasiurus cinereus)* **SOC** 1 8 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3G4** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, and definitively identified roosting individuals) of adults or juveniles during the active season. Point observation location is buffered by a minimum distance of 3,500 meters in order to be conservative about encompassing the maximum reported foraging distance for the congeneric Lasiurus borealis and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 20, 2017)

Predictive Models: M 29% Moderate (inductive), L 70% Low (inductive) **Associated Habitats:** C 50% Common, O 48% Occasional

M - Little Brown Myotis *(Myotis lucifugus)* **SOC** 1 6 Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G3** State: **S3** FWP SWAP: **SGCN3**

Delineation Criteria Confirmed area of occupancy based on the documented presence (mistnet captures, definitively identified acoustic recordings, or definitively identified roosting individuals) of adults or juveniles. Point observation location is buffered by a distance of 1,600 meters in order to encompass the greater than 1,500 meters foraging distance reported for the species in New Brunswick, Canada and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. When cave locations are involved, point observations are mapped in the center of a one-square mile hexagon to protect the exact location of the cave entrance as per the Federal Cave Resource Protection Act and associated regulations (U.S. Code Title 16 Chapter 63, Code of Federal Regulations Title 43 Subtitle A Part 37). The outer edges of the hexagon are then buffered by a distance of 1,600 meters and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 14, 2017)

Predictive Models: M 28% Moderate (inductive), L 64% Low (inductive) **Associated Habitats:** C 52% Common, O 46% Occasional

B - Baird's Sparrow *(Ammodramus bairdii)* **SOC** | 7 | 9 | S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**

Delineation Criteria 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 average breeding territory size of the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 23, 2016)

Predictive Models: M 17% Moderate (inductive), L 82% Low (inductive) **Associated Habitats:** C 26% Common, O 1% Occasional

B - Veery *(Catharus fuscescens)* **SOC** | 1 | 1 | S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria Observations with evidence of breeding activity buffered by a minimum distance of 300 meters in order to be conservative about encompassing home ranges and otherwise buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jun 22, 2017)

Predictive Models: M 13% Moderate (inductive), L 29% Low (inductive) **Associated Habitats:** C 12% Common

B - Greater Sage-Grouse *(Centrocercus urophasianus)* **SOC** | 1 | + | Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

USFS: **Sensitive - Known on Forests (BD)**

Species of Concern Global: **G3G4** State: **S2** **Sensitive - Suspected on Forests (CG, HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**

Delineation Criteria Confirmed breeding area based on the presence of a nest, chicks, juveniles, or adults on a lek. Point observations are mapped in the center of a one-square mile hexagon to protect the exact locations of leks. The outer edges of this hexagon are then buffered by a distance of 6,400 meters in order to encompass a body of research indicating that females typically nest within this distance of a lek and that lek numbers are negatively impacted by fossil fuel drilling activities within this distance of a lek. If the locational uncertainty associated with the observation is greater than this distance, it is buffered by the locational up to a maximum distance of 10,000 meters. All of the one-square mile hexagons intersecting this buffered area are presented as the Species Occurrence record. (Last Updated: Jul 12, 2017)

Predictive Models: M 2% Moderate (inductive), L 69% Low (inductive) **Associated Habitats:** C 35% Common, O 2% Occasional

B - McCown's Longspur *(Rhynchophanes mccownii)* **SOC** | 4 | 4 | S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Delineation Criteria 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 maximum breeding territory size reported for the species and otherwise is buffered by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Dec 02, 2016)

Predictive Models: M 1% Moderate (inductive), L 64% Low (inductive) **Associated Habitats:** C 22% Common, O 46% Occasional

V - Mentzelia nuda *(Bractless blazingstar)* **SOC** | 1 | + | Not Available | Not Assigned

View in Field Guide

Species of Concern Global: **G5** State: **S1S2**

Delineation Criteria 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.

O - Bat Roost (Non-Cave) *(Bat Roost (Non-Cave))* **IAH** | 1 | | Not Available | Not Assigned

View in Field Guide

Important Animal Habitat Global: **GNR** State: **SNR**

Delineation Criteria Confirmed area of occupancy based on the documented presence of adults or juveniles of any bat species at non-cave natural roost sites (e.g. rock outcrops, trees), below ground human created roost sites (e.g. mines), and above ground human created roost sites (e.g., bridges, buildings). Point observation locations are buffered by a distance of 4,500 meters in order to encompass the 95% confidence interval for nightly foraging distance reported for Townsendâ€™s Big-eared Bat (a resident Montana bat Species of Concern) and otherwise by the locational uncertainty associated with the observation up to a maximum distance of 10,000 meters. (Last Updated: Jul 10, 2017)

Other Observed Species

	# Obs	Predictive Model	Associated Habitat	Range
B - Great Blue Heron *(Ardea herodias)* **SOC**	1			S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**

Predictive Models: O 6% Optimal (inductive), M 29% Moderate (inductive), L 33% Low (inductive) **Associated Habitats:** C 11% Common

M - Eastern Red Bat *(Lasiurus borealis)* **PSOC** | 7 | S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps

Potential Species of Concern Global: **G3G4** State: **SU**

Predictive Models: O 2% Optimal (inductive), M 52% Moderate (inductive), L 44% Low (inductive)
Associated Habitats: C 15% Common, O 35% Occasional

A - Northern Leopard Frog *(Lithobates pipiens)* **SOC** 5 Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

USFS: **Sensitive - Known on Forests (CG, HLC, KOOT)**

Species of Concern Global: **G5** State: **S1,S4** **Sensitive - Suspected on Forests (BRT, FLAT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN1**

Predictive Models: O 2% Optimal (inductive), M 45% Moderate (inductive), L 52% Low (inductive)

Associated Habitats: C 14% Common, O 1% Occasional

M - Silver-haired Bat *(Lasionycteris noctivagans)* **PSOC** 4 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G3G4** State: **S4**

Predictive Models: M 36% Moderate (inductive), L 61% Low (inductive) **Associated Habitats:** C 50% Common, O 44% Occasional

B - Chestnut-collared Longspur *(Calcarius ornatus)* **SOC** 1 S M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**

Predictive Models: M 22% Moderate (inductive), L 76% Low (inductive) **Associated Habitats:** C 24% Common, O 2% Occasional

M - Swift Fox *(Vulpes velox)* **SOC** 1 Y S W

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G3** State: **S3** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Predictive Models: M 6% Moderate (inductive), L 66% Low (inductive) **Associated Habitats:** C 22% Common, O 16% Occasional

B - Golden Eagle *(Aquila chrysaetos)* **SOC** 1 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3** USFWS: **BGEPA; MBTA; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3**

Predictive Models: L 55% Low (inductive) **Associated Habitats:** C 48% Common, O 46% Occasional

B - Peregrine Falcon *(Falco peregrinus)* **SOC** 1 Y S W M

View in Field Guide | View Predicted Models | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3** USFWS: **DM; MBTA; BCC10; BCC11; BCC17**

USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Predictive Models: L 24% Low (inductive) **Associated Habitats:** C 14% Common, O 22% Occasional

B - Short-eared Owl *(Asio flammeus)* **PSOC** 4 Not Available Y S W M

View in Field Guide | View Associated Habitat | View Range Maps

Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA; BCC11; BCC17** PIF: **3**

Associated Habitats: C 91% Common, O 2% Occasional

B - Sharp-tailed Grouse *(Tympanuchus phasianellus)* **SOC** 2 Not Available Y S W

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S1,S4** FWP SWAP: **SGCN1** PIF: **2**

Associated Habitats: C 48% Common, O 46% Occasional

B - Whooping Crane *(Grus americana)* **SOC** 1 Not Available M

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G1** State: **S1M** USFWS: **LE; MBTA** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1**

Associated Habitats: C 14% Common, O 45% Occasional

B - Franklin's Gull *(Leucophaeus pipixcan)* **SOC** 3 Not Available M

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**

Associated Habitats: C 13% Common, O 69% Occasional

B - Plumbeous Vireo *(Vireo plumbeus)* **PSOC** 1 Not Available

View in Field Guide | View Associated Habitat

Potential Species of Concern Global: **G5** State: **S3S4B** USFWS: **MBTA** PIF: **3**

Associated Habitats: C 12% Common

B - American White Pelican *(Pelecanus erythrorhynchos)* **SOC** 3 Not Available M

View in Field Guide | View Associated Habitat | View Range Maps

Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**

Associated Habitats: C 3% Common

F - Brassy Minnow *(Hybognathus hankinsoni)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide | View Range Maps

Potential Species of Concern Global: **G5** State: **S4**

F - Brook Stickleback *(Culaea inconstans)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide | View Range Maps

Potential Species of Concern Global: **G5** State: **S4**

F - Burbot *(Lota lota)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide | View Range Maps

Potential Species of Concern Global: **G5** State: **S4**

F - Plains Minnow *(Hybognathus placitus)* **PSOC** + Not Available Not Assigned Y S W

View in Field Guide View Range Maps
Potential Species of Concern Global: **G4** State: **S4**

Other Potential Species

	Predictive Model	Associated Habitat	Range

B - Bobolink *(Dolichonyx oryzivorus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: O 10% Optimal (inductive), M 66% Moderate (inductive), L 24% Low (inductive)
Associated Habitats: C 79% Common, O 1% Occasional

A - Plains Spadefoot *(Spea bombifrons)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (HLC)** **Sensitive - Suspected on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 45% Moderate (inductive), L 55% Low (inductive) **Associated Habitats:** C 51% Common, O 2% Occasional

R - Plains Hog-nosed Snake *(Heterodon nasicus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2, SGIN**
Predictive Models: M 44% Moderate (inductive), L 56% Low (inductive) **Associated Habitats:** C 47% Common, O 1% Occasional

M - Dwarf Shrew *(Sorex nanus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2S3** FWP SWAP: **SGCN2-3**
Predictive Models: M 35% Moderate (inductive), L 18% Low (inductive) **Associated Habitats:** C 35% Common, O 1% Occasional

A - Great Plains Toad *(Anaxyrus cognatus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Predictive Models: M 28% Moderate (inductive), L 67% Low (inductive) **Associated Habitats:** C 50% Common, O 1% Occasional

B - American Bittern *(Botaurus lentiginosus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: M 28% Moderate (inductive), L 58% Low (inductive) **Associated Habitats:** C 12% Common

M - Pygmy Shrew *(Sorex hoyi)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 19% Moderate (inductive), L 75% Low (inductive) **Associated Habitats:** C 1% Common, O 22% Occasional

B - Brewer's Sparrow *(Spizella breweri)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 15% Moderate (inductive), L 84% Low (inductive) **Associated Habitats:** C 11% Common, O 2% Occasional

B - Sprague's Pipit *(Anthus spragueii)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3G4** State: **S3B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Predictive Models: M 13% Moderate (inductive), L 87% Low (inductive) **Associated Habitats:** C 22% Common, O 4% Occasional

B - Common Tern *(Sterna hirundo)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 13% Moderate (inductive), L 62% Low (inductive) **Associated Habitats:** C 14% Common

R - Smooth Greensnake *(Opheodrys vernalis)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** FWP SWAP: **SGCN2, SGIN**
Predictive Models: M 13% Moderate (inductive), L 14% Low (inductive) **Associated Habitats:** C 15% Common, O 25% Occasional

R - Greater Short-horned Lizard *(Phrynosoma hernandesi)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFS: **Sensitive - Known on Forests (CG)** **Sensitive - Suspected on Forests (HLC)** BLM: **SENSITIVE** FWP SWAP: **SGCN3, SGIN**
Predictive Models: M 12% Moderate (inductive), L 78% Low (inductive) **Associated Habitats:** C 37% Common

M - Townsend's Big-eared Bat *(Corynorhinus townsendii)* **SOC** Y S W M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (BD, BRT, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 11% Moderate (inductive), L 29% Low (inductive) **Associated Habitats:** C 50% Common, O 45% Occasional

B - Long-billed Curlew *(Numenius americanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC10; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 4% Moderate (inductive), L 71% Low (inductive) **Associated Habitats:** C 22% Common, O 16% Occasional

M - Preble's Shrew *(Sorex preblei)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** FWP SWAP: **SGCN3**
Predictive Models: M 3% Moderate (inductive), L 82% Low (inductive) **Associated Habitats:** C 37% Common

B - Mountain Plover *(Charadrius montanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G3** State: **S2B** USFWS: **MBTA; BCC11; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **1**
Predictive Models: M 3% Moderate (inductive), L 67% Low (inductive) **Associated Habitats:** C 34% Common, O 1% Occasional

M - Black-tailed Prairie Dog *(Cynomys ludovicianus)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3**
Predictive Models: M 2% Moderate (inductive), L 91% Low (inductive) **Associated Habitats:** C 35% Common, O 48% Occasional

B - Black Tern *(Chlidonias niger)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4G5** State: **S3B** USFWS: **MBTA; BCC11** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: M 1% Moderate (inductive), L 66% Low (inductive) **Associated Habitats:** C 3% Common, O 2% Occasional

B - Sage Thrasher *(Oreoscoptes montanus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **3**
Predictive Models: L 86% Low (inductive) **Associated Habitats:** C 11% Common, O 2% Occasional

B - Ferruginous Hawk *(Buteo regalis)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3B** USFWS: **MBTA; BCC10; BCC17** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 49% Low (inductive) **Associated Habitats:** C 38% Common, O 1% Occasional

B - Horned Grebe *(Podiceps auritus)* **SOC** S M

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA; BCC11; BCC17** FWP SWAP: **SGCN3** PIF: **2**
Predictive Models: L 34% Low (inductive) **Associated Habitats:** C 3% Common, O 2% Occasional

R - Western Milksnake *(Lampropeltis gentilis)* **SOC** Y S W

View in Field Guide View Predicted Models View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2** USFS: **Sensitive - Known on Forests (CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN2**
Predictive Models: L 4% Low (inductive) **Associated Habitats:** C 50% Common, O 45% Occasional

M - Hayden's Shrew *(Sorex haydeni)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4**
Associated Habitats: C 94% Common

M - White-footed Mouse *(Peromyscus leucopus)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4**
Associated Habitats: C 91% Common

B - Eastern Bluebird *(Sialia sialis)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA**
Associated Habitats: C 49% Common, O 1% Occasional

B - Common Poorwill *(Phalaenoptilus nuttallii)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 48% Common, O 46% Occasional

M - Porcupine *(Erethizon dorsatum)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** FWP SWAP: **SGIN**
Associated Habitats: C 47% Common, O 2% Occasional

B - Dickcissel *(Spiza americana)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA; BCC11; BCC17**
Associated Habitats: C 37% Common, O 55% Occasional

M - Black-footed Ferret *(Mustela nigripes)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G1** State: **S1** USFWS: **LE,XN** USFS: **Endangered, Experimental Nonessential on Forests (CG)** BLM: **SPECIAL STATUS** FWP SWAP: **SGCN1**
Associated Habitats: C 35% Common, O 1% Occasional

B - White-faced Ibis *(Plegadis chihi)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 14% Common, O 1% Occasional

B - Black-crowned Night-Heron *(Nycticorax nycticorax)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 14% Common, O 1% Occasional

I - Gomphus externus *(Plains Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 14% Common

B - Chimney Swift *(Chaetura pelagica)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G4G5** State: **S3S4B** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **3**
Associated Habitats: C 13% Common, O 82% Occasional

M - Bison *(Bos bison)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2** FWP SWAP: **SGCN2**
Associated Habitats: C 13% Common, O 11% Occasional

B - Hooded Merganser *(Lophodytes cucullatus)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 13% Common, O 2% Occasional

B - Barrow's Goldeneye *(Bucephala islandica)* **PSOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4** USFWS: **MBTA** FWP SWAP: **SGIN** PIF: **2**
Associated Habitats: C 13% Common

M - Grizzly Bear *(Ursus arctos)* **SOC** Not Available H

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S2S3** USFWS: **PS: LT; XN; DM** USFS: **Threatened on Forests (BD, CG, FLAT, HLC, KOOT, LOLO)** BLM: **SENSITIVE** FWP SWAP: **SGCN2-3**
Associated Habitats: C 12% Common, O 33% Occasional

I - Polygonia progne *(Gray Comma)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2**
Associated Habitats: C 12% Common, O 1% Occasional

B - Black-and-white Warbler *(Mniotilta varia)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA**
Associated Habitats: C 12% Common, O 1% Occasional

B - Eastern Screech-Owl *(Megascops asio)* **PSOC** Not Available Y S W M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S4** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 12% Common

B - Ovenbird *(Seiurus aurocapilla)* **PSOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S4B** USFWS: **MBTA** PIF: **3**
Associated Habitats: C 12% Common

I - Lethe eurydice *(Eyed Brown)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 11% Common, O 22% Occasional

B - Alder Flycatcher *(Empidonax alnorum)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 10% Common

I - Stylurus intricatus *(Brimstone Clubtail)* **SOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S1**
Associated Habitats: C 4% Common, O 10% Occasional

I - Enallagma civile *(Familiar Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 3% Common, O 11% Occasional

I - Gomphus graslinellus *(Pronghorn Clubtail)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 3% Common, O 11% Occasional

B - Forster's Tern *(Sterna forsteri)* **SOC** Not Available S M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **2**
Associated Habitats: C 3% Common, O 11% Occasional

B - Caspian Tern *(Hydroprogne caspia)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S2B** USFWS: **MBTA** BLM: **SENSITIVE** FWP SWAP: **SGCN2** PIF: **2**
Associated Habitats: C 3% Common, O 11% Occasional

I - Coenagrion angulatum *(Prairie Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 3% Common, O 2% Occasional

B - Black-necked Stilt *(Himantopus mexicanus)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 3% Common, O 2% Occasional

I - Aeshna constricta *(Lance-tipped Darner)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S1S3**
Associated Habitats: C 3% Common, O 1% Occasional

B - Clark's Grebe *(Aechmophorus clarkii)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** FWP SWAP: **SGCN3** PIF: **3**
Associated Habitats: C 3% Common, O 1% Occasional

I - Argia emma *(Emma's Dancer)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 3% Common

I - Enallagma praevarum *(Arroyo Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S3S5**
Associated Habitats: C 3% Common

B - Common Loon *(Gavia immer)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3B** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (FLAT, KOOT, LOLO)** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 3% Common

B - Trumpeter Swan *(Cygnus buccinator)* **SOC** Not Available M

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G4** State: **S3** USFWS: **MBTA** USFS: **Sensitive - Known on Forests (BD, CG)** BLM: **SENSITIVE** FWP SWAP: **SGCN3** PIF: **1**
Associated Habitats: C 3% Common

I - Limenitis arthemis *(Red-spotted Admiral)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 2% Common

I - Enallagma clausum *(Alkali Bluet)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S4**
Associated Habitats: C 1% Common, O 14% Occasional

I - Sympetrum madidum *(Red-veined Meadowhawk)* **PSOC** Not Available Y S W

View in Field Guide View Associated Habitat View Range Maps
Potential Species of Concern Global: **G5** State: **S2S3**
Associated Habitats: C 1% Common, O 3% Occasional

B - Evening Grosbeak *(Coccothraustes vespertinus)* **SOC** Not Available W

View in Field Guide View Associated Habitat View Range Maps
Species of Concern Global: **G5** State: **S3** USFWS: **MBTA** FWP SWAP: **SGCN3**
Associated Habitats: C 1% Common

Latitude	Longitude
48.00309	-105.49134
48.16757	-106.12829

Structured Surveys

The Montana Natural Heritage Program (MTNHP) records information on the locations where more than 80 different types of well-defined repeatable survey protocols capable of detecting an animal species or suite of animal species have been conducted by state, federal, tribal, university, or private consulting biologists. Examples of structured survey protocols tracked by MTNHP include: visual encounter and dip net surveys for pond breeding amphibians, point counts for birds, call playback surveys for selected bird species, visual surveys of migrating raptors, kick net stream reach surveys for macroinvertebrates, visual encounter cover object surveys for terrestrial mollusks, bat acoustic or mist net surveys, pitfall and/or snap trap surveys for small terrestrial mammals, track or camera trap surveys for large mammals, and trap surveys for turtles. Whenever possible, photographs of survey locations are stored in MTNHP databases.

MTNHP does not typically manage information on structured surveys for plants; surveys for invasive species may be a future exception.

Within the report area you have requested, structured surveys are summarized by the number of each type of structured survey protocol that has been conducted, the number of species detections/observations resulting from these surveys, and the most recent year a survey has been conducted.

AR-Amphibian/Reptile Lentic *(Lentic Amphibian/Reptile Surveys)*	**Survey Count**: 6	**Obs Count**: 5	**Recent Survey**: 2012
B-Bald Eagle Nest *(Bald Eagle Nest Survey)*	**Survey Count**: 24	**Obs Count**: 20	**Recent Survey**: 2014
B-BBS *(Breeding Bird Survey Stop)*	**Survey Count**: 72	**Obs Count**: 323	**Recent Survey**: 2007
B-Cuckoo Playback Survey *(Riparian Playback Surveys for Cuckoos)*	**Survey Count**: 1	**Obs Count**:	**Recent Survey**: 2012
B-Point Count *(Bird Point Count)*	**Survey Count**: 28	**Obs Count**: 395	**Recent Survey**: 2005
I-Aquatic Invert Lotic Dipnet *(Invertebrate Lotic Site Dipnet and Visual Encounter Survey)*	**Survey Count**: 1	**Obs Count**: 3	**Recent Survey**: 2012
I-Bumble Bee *(Bumble Bee Collection Surveys)*	**Survey Count**: 2	**Obs Count**: 3	**Recent Survey**: 2015
I-Odonates/Butterfly VES *(Visual Encounter Survey for Damselfly/Dragonfly/Butterfly)*	**Survey Count**: 1	**Obs Count**: 7	**Recent Survey**: 2012
M-Bat Acoustic *(Bat Acoustic Survey)*	**Survey Count**: 36	**Obs Count**: 37	**Recent Survey**: 2015