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State Wildlife Action Plan (SWAP)

- ROADMAP for conserving the fish, wildlife, and habitats of Greatest Conservation Need in Montana
- As the state wildlife agency, FWP is the lead on drafting the plan but...
- Comprehensive conservation cannot be achieved without partners



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	114 professio	nals helpe	ed develop th	reats &	conservation	actions	
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University of Montana Bird Ecology Lab

University of Montana Bird Ecology Lab

Washington Department of Fish and Wildlife

Washington Department of Fish and Wildlife

Wyoming Game and Fish Department

Wyoming Game and Fish Department

SWAP Co-producer





State Wildlife Action Plan (SWAP)

- Prioritize work on at-risk fish, wildlife & habitats
- Required for federal funding
- Due in 4 days! (Dec 15, 2025)

- 8 required elements
 - 1. Species
 - 2. Habitats
 - 3. Threats
 - 4. Conservation Actions
 - 5. Monitoring
 - 6. Review
 - 7. Partner Participation
 - 8. Public Participation

SWAP Table of Contents

CHAPTER 1: INTRODUCTION

- 1.1 Purpose of the SWAP
- 1.5 Summary of Significant Changes in the SWAP
- 1.6 How to Use the SWAP

CHAPTER 2: HABITATS OF GREATEST CONSERVATION NEED

- 2.2 Terrestrial HGCN
- 2.3 Aquatic HGCN

CHAPTER 3: SPECIES OF GREATEST CONSERVATION NEED

- 3.3 Vertebrates
- 3.4 Terrestrial Invertebrates
- 3.5 Aquatic Invertebrates
- 3.6 Plants

CHAPTER 4: SPECIES OF GREATEST INFORMATION NEED



CHAPTER 5: THREATS & CONSERVATION ACTIONS

* ~300 pages of HGCN and SGCN tables

CHAPTER 6: FOCAL AREAS*

CHAPTER 7: ECOSYSTEM ENGINEERS

6.2 North American Beaver

6.3 Pileated Woodpecker

6.4 Prairie Dogs

CHAPTER 8: WILDLIFE CONNECTIVITY

CHAPTER 9: WILDLIFE DISEASES

CHAPTER 10: WILDLIFE VIEWING AND EDUCATION

CHAPTER 11: MONITORING

CHAPTER 12: RESEARCH & INFORMATION NEEDS*

CHAPTER 13: REVIEW & REVISION

CHAPTER 14: PARTNER & PUBLIC INVOLVEMENT

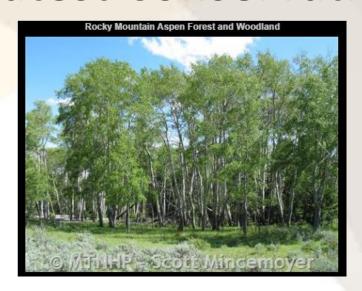
Chapter is a "bonus" SWAP - 586 pages

* Chapter is in progress

Habitats of Greatest Conservation Need

Experts identified 52 habitats

- Grasslands (4)
- Shrublands (4)
- Forest & Woodlands (7)
- Wetland and Riparian (all 17)
- Aquatic rivers & lakes (20)











28 Terrestrial HGCN

Grassland

- 1. Rocky Mountain Low Elevation Dry Grasslands
- 2. Great Plains Dry Mixedgrass Prairie
- 3. Great Plains Mesic Mixedgrass Prairie
- 4. Great Plains Sand Prairie

Shrubland

- 5. Lowland Montane Shrubland
- 6. Mountain Mahogany Woodland & Shrubland
- 7. Basin & Wyoming Big Sagebrush Shrubland
- 8. Mountain Big Sagebrush Shrubland

Forest & Woodland

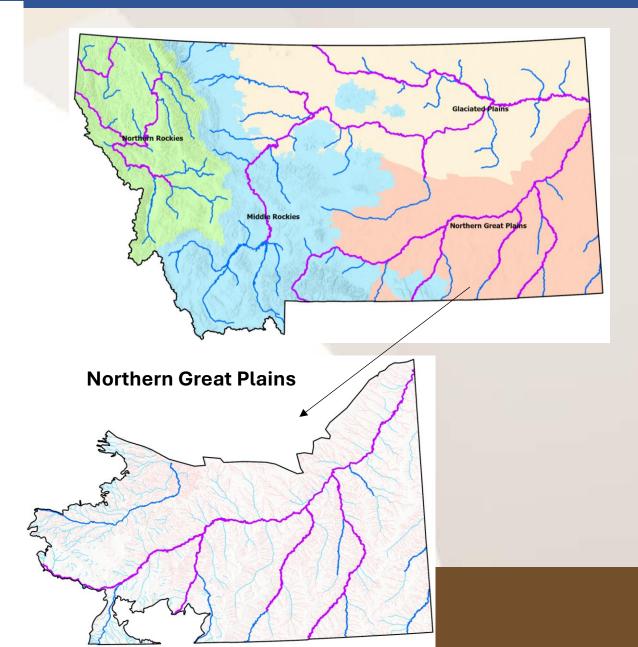
- 9. Great Plains Aspen Forest & Woodland
- Great Plains Mesic Forest & Woodland
- 11. Rocky Mountain Aspen Forest & Woodland
- 12. Great Plains Ponderosa Pine Forest & Woodland
- 13. Rocky Mountain Ponderosa Pine Forest & Woodland
- 14. Cedar Hemlock Forest
- 15. Whitebark Pine Subalpine Larch Forest & Woodland

Riparian & Wetland

- 16. Intermountain Alkaline Saline Grassland & Meadow
- 17. Great Plains Saline Marsh & Wet Meadow
- 18. Greasewood Shrubland
- 19. Alpine Subalpine Herbaceous & Dwarf-Shrub Riparian & Wetland
- Great Plains Alkaline Fen
- 17. Rocky Mountain Acidic Fen
- 18. Rocky Mountain Alkaline Fen
- 19. Great Plains Floodplain Forest
- 20. Lowland Montane Riparian Deciduous Forest
- 21. Montane Subalpine Riparian Forest
- 22. Montane Forested Wetland
- 23. Lowland Montane Riparian Shrubland
- 24. Montane Subalpine Riparian & Seep Shrubland
- 25. Great Plains Floodplain Shrubland & Herbland
- 26. Arid West Freshwater Marsh & Wet Meadow
- 27. Great Plains Wet Meadow, Marsh & Shrub Swamp
- 28. Montane Wet Meadow & Marsh

20 Aquatic HGCN

- 1. Northern Rockies Large Perennial River
- 2. Northern Rockies Medium Perennial River
- 3. Northern Rockies Small Perennial Stream
- 4. Northern Rockies Small Intermittent Stream
- 5. Northern Rockies Small Alpine and Subalpine Stream
- 6. Middle Rockies Large Perennial River
- 7. Middle Rockies Medium Perennial River
- 8. Middle Rockies Small Perennial Stream
- 9. Middle Rockies Small Intermittent Stream
- 10. Middle Rockies Small Alpine and Subalpine Stream
- 11. Glaciated Plains Large Perennial River
- 12. Glaciated Plains Medium Perennial River
- 13. Glaciated Plains Small Perennial Stream
- 14. Glaciated Plains Small Intermittent Stream
- 15. Northern Great Plains Large Perennial River
- 16. Northern Great Plains Medium Perennial River
- 17. Northern Great Plains Small Perennial Stream
- 18. Northern Great Plains Small Intermittent Stream
- 19. Large Lake
- 20. Large Reservoir



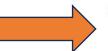
Habitats of Greatest Conservation Need

Montana Field Guide

https://fieldguide.mt.gov/







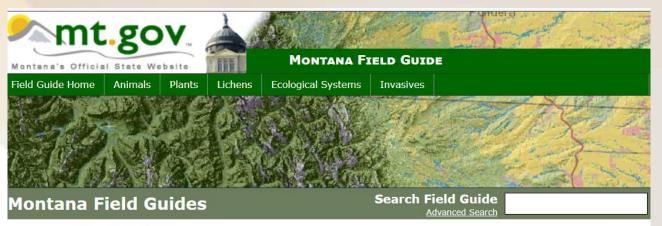






Aquatic HGCN





Home - Other Field Guides

Ecological Communities

The ecological communities guide contains accounts for three major types of ecological communities:

- 1. Natural vegetation communities occurring in Montana as described under the <u>National Vegetation</u> <u>Classification</u> scheme at the Group level;
- 2. Aquatic communities occurring in flowing (lotic) and standing (lentic) waters of different sizes, flow regimes and geographic regions;
- 3. Areas recently disturbed by fire and insect outbreaks or that are heavily modified from natural vegetation communities by introduced vegetation or intensive human land uses such as crop agriculture and development of human structures.

National Vegetation Classification Groups

- Alpine
- Forest and Woodland
- Shrubland
- Grassland
- Sparse and Barren
- Wetland and Riparian

Aquatic Communities

Open Water

Other Land Cover

- Recently Disturbed or Modified
- Human Land Use

Lowland - Montane Shrubland

Global Name: Central Rocky Mountain Montane-Foothill Shrubland



Global Rank: G4G5 State Rank: S4S5

(see reason below)

External Links







Image Copyright and Usage Information

State Rank Reason

This habitat has been altered or lost due to development, grazing practices, invasive species and severe wildfires. However, the type is still relatively common, widespread and resilient.

General Description

This National Vegetation Classification Group is dominated by deciduous shrubs at low to mid elevations. It is found in the foothills and montane zone of all mountainous areas across the state. Patches sizes are generally small. These communities occur in relatively warm, dry, upland habitats and may be dominated or codominated by the following shrubs: Serviceberry (Amelanchier alnifolia), Ninebark (Physocarpus malvaceus), Chokecherry (Prunus virginiana), Oceanspray (Holodiscus discolor), Bitter Cherry (Prunus emarginata), Smooth Sumac (Rhus glabra), Skunkbush Sumac (Rhus trilobata), Woods' Rose (Rosa woodsii), and Common Snowberry (Symphoricarpos albus). These shrublands often occur below treeline, within the matrix of surrounding low-elevation grasslands and sagebrush shrublands. They also occur in the ponderosa pine and Douglas-fir zones, but rarely up into the subalpine zone, where they are restricted to warm, dry sites and southerly exposures. Trees if present within the community are widely scattered. These shrublands occur on all aspects. These communities also develop near talus slopes as garlands, at the heads of dry drainages, and toeslopes in the moist shrub-steppe and steppe zones. Fire, flooding and erosion all impact these shrublands, but they typically will persist on sites for long periods.

This group incorporates the Rocky Mountain Lower Montane-Foothill Shrubland Ecological System as well as a portion of the Rocky Mountain Montane-Foothill Deciduous Shrubland Ecological System.

Range

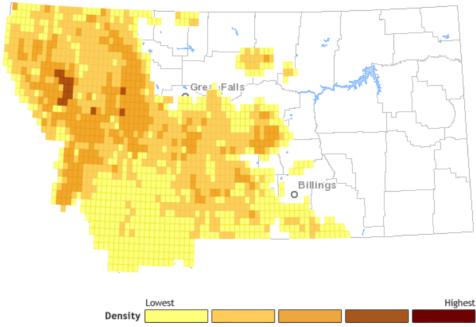
In Montana, these communities occur throughout the mountainous portions of the state, both east and west of the Continental Divide. It extends as far east as the Little Rockies, the Little Snowies and the Wolf Mtns in Big Horn County.

In MT, G272 occurs within these Level III Ecoregions: 15 (Northern Rockies), 16 (Idaho Batholith), 17 (Middle Rockies), 41 (Canadian Rockies) and western portions of 42 (Northwestern Glaciated Plains) and 43 (Northwestern Great Plains).

In Montana, G272 occurs within these Major Land Resource Areas: 43A - Northern Rocky Mountains and 43B -Central Rocky Mountains, 44A - Northern Rocky Mountain Valleys, and 46 - Northern and Central Rocky Mountain Foothills.

Density and Distribution

Based on 2025 land cover layer, Grid on map is based on USGS 7.5 minute quadrangle map boundaries.



Mapped Distribution by County

Beaverhead, Big Horn, Blaine, Broadwater, Carbon, Cascade, Chouteau, Deer Lodge, Fergus, Flathead, Gallatin, Glacier, Golden Valley, Granite, Hill, Jefferson, Judith Basin, Lake, Lewis and Clark, Liberty, Lincoln, Madison, Meagher, Mineral, Missoula, Musselshell, Park, Petroleum, Phillips, Pondera, Powell, Ravalli, Sanders, Silver Bow, Stillwater, Sweet Grass, Teton, Toole, Wheatland, Yellowstone Based on 2025 land cover layer.

Spatial Pattern

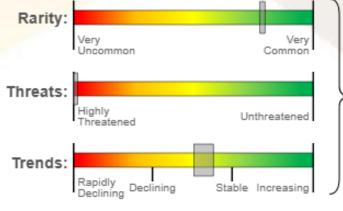
Small Patch and Large Patch

SGCN Selection

Rank:

NatureServe's standardized conservation status ranking







Secure

Vertebrate Species of Greatest Information Need Criteria

- 1. State conservation status rank of S1, S2, or S3.
- State conservation status rank of S4 for which Montana has a high stewardship responsibility for the species because a substantial portion (≥10%) of the species' global population or range is in Montana.

SGCN Selection

INVERTEBRATES	Criteria		
Terrestrial Invertebrate SGCN	 State conservation status rank of S1 or S2. Global conservation status rank of G1, G2, or G3 that were nominated by taxonomic experts. 		
Aquatic Invertebrate SGCN	1. State conservation status rank of S1 or S2.		

PLANTS – pulled directly from Plant Conservation Strategy

- 1. Vascular plants with a state conservation **status rank of S1, S2, or S3** that lack taxonomic problems or large locational ambiguity and that either:
 - a. Face a **direct or indirect threat** as determined by the Montana State Threat Score.
 - b. Are **associated** with a Unique Habitat of **Greatest Conservation Need** ^a or Plant Community of Greatest Conservation Need ^a.
 - c. Are poorly documented or have **information needs**.
- 2. Vascular plants with a state conservation status rank of **S3S4, S4, or S5** that were nominated by several partners representing different agencies as being **"of management concern"** because the species is facing significant threats or potential decline.

SGIN Selection

- Changes from 2015 SWAP
 - Species of Greatest <u>Information</u> Need
 - Species is SGCN or SGIN not both
- SGIN species that lack info to assess status or management needs
 - Population size, distribution, trend, or threats
 - Lack baseline surveys
 - Outdated surveys
 - Lack life history traits or habitat associations
 - Declining in its range outside of Montana
 - Species status is SU or we have low confidence in the existing rank







	SGCN	SGIN	TOTAL
Amphibians	7	0	7
Birds	83	12	95
Fish	23	11	34
Mammals	31	14	45
Reptiles	10	0	10
Aquatic Invertebrates	56	26	82
Terrestrial Invertebrates	57	35	92
Plants	109	0	109
TOTAL	376	98	474







T. Ritter

K. Dubois

Threats and Conservation Actions for HGCN & SGCN

- Teams identified Threats and drafted Actions for all 154 vertebrates and taxa tables for inverts & plants
- Conservation Measures Partnership Actions Classification (CMP Version 2.0)
- Formal system for categorizing Threats (11) and Actions (10)

Level 1 "Threat Categories"	Level 2 "General Threats"			
1 Residential & Commercial	1.1 Housing & Urban Areas			
Development	Human cities, towns, and settlements including non-housing			
Human settlements or other	development typically integrated with housing			
non-agricultural land uses with a	1.2 Commercial & Industrial Areas			
substantial footprint	Factories and other commercial centers			
	1.3 Tourism & Recreation Areas			
	Tourism and recreation sites with a substantial footprint			
2 Agriculture & Aquaculture	2.1 Annual & Perennial Non-Timber Crops			
Threats from farming and	Crops planted for food, fodder, fiber, fuel, or other uses			
ranching as a result of	2.2 Wood & Pulp Plantations			
agricultural expansion and	Stands of trees planted for timber or fiber outside of natural forests,			
intensification, including silviculture	often with non-native species			
silviculture and aquaculture	2.3 Livestock Farming & Ranching			
	Domestic terrestrial animals raised in one location on farmed or non-			
	local resources (farming); also domestic or semi-domesticated animals			
	allowed to roam in the wild and supported by natural habitats (ranching)			
	2.4 Marine & Freshwater Aquaculture			
	Aquatic animals raised in one location on farmed or non-local resources;			
	also hatchery fish allowed to roam in the wild			
3 Energy Production & Mining	3.1 Oil & Gas Drilling			
Threats from production of non-	Exploring for, developing, and producing petroleum and other liquid			
biological resources	hydrocarbons			
	3.2 Mining & Quarrying			
	Exploring for, developing, and producing minerals and rocks			
	3.3 Renewable Energy			
	Exploring, developing, and producing renewable energy (except			
	hydropower)			





	114 professio	nals helpe	ed develop th	reats &	conservation	actions	
Name	Agency	Name	Agency	Name	Agency	Name	Agency
Kevin Ellison	American Bird Conservancy	Bo Crees	Montana Audubon/Montana Natural Heritage Program	Kate Stone	MPG Ranch	Ron Torretta	U.S. Forest Service
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Montana Natural Heritage

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Mike Borgreen

Amy Seglund

Art Soukkala

Corey Anco

Jami Belt

Lisa Bate

John Waller

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Joel Sauder

Jay Carlisle

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Stephen Dinsmore

Brent Mitchell

Cara Thompson

Bureau of Land Management

Bureau of Land Management

Bureau of Land Management

Colorado Parks and Wildlife

Flathead Audubon Society

Glacier National Park

Glacier National Park

Glacier National Park

Iowa State University

University

Draper Natural History Museum

Idaho Department of Fish and Game

Idaho Department of Fish and Game

Idaho Department of Fish and Game

Intermountain Bird Observatory, Boise State Rachel Dines

Confederated Salish and Kootenai Tribes

Confederated Salish and Kootenai Tribes

University of Idaho

University of Montana

University of Montana

University of Montana

University of Montana

University of Montana (retired)

University of Montana Western

University of Montana Western

University of Wyoming

University of Montana Bird Ecology Lab

University of Montana Bird Ecology Lab

University of Montana Bird Ecology Lab

Washington Department of Fish and Wildlife

Washington Department of Fish and Wildlife

Wyoming Game and Fish Department

Wyoming Game and Fish Department

Threats and Conservation Actions for HGCN & SGCN

- Teams submitted 6000 threats & actions
- 296 pages of tables
- All Threats and Actions are linked -> actionable
- Hierarchical structure for tables:
 - All HGCN
 - All Terrestrial HGCN
 - Grassland
 - Shrubland, etc.
 - Aquatic HGCN (2)
 - SGCN
 - All taxa for vertebrates (amphibians, birds, etc).
 - Individual vertebrate species
 - All Aquatic Invertebrates
 - All Terrestrial Invertebrates
 - All Plants draw directly from the <u>Montana Native Plant Conservation Strategy: Vascular Species and Habitats of Greatest Conservation Need</u> (Pipp et al. 2024).



HGCN Threats and Actions Tables

All Terrestrial HGCN

Threats and Actions Applicable to All Terrestrial HGCN

Action Classification	Action	Threat Classification	Threat	Threats and	Actions Applicable to Grassland	S			
1. Land/Water Protection			1.2 Ecosystem &	Implement regenerative grazing practices that mimic		Grazing practices that are not reflective of the			
Stewardship patches of disturbanc grazing ani vegetation	patches of intact HGCN to avoid or minimize human disturbance, impacts of pollutants, and access by grazing animals. Maintain corridors of native	2.1 Annual & Perennial Non- Timber Crops	Intensive agricultural production, including habitat conversion for agriculture can degrade and fragment habitat.	Natural Process (Re)Creation	enhance soil health. and de	natural grazing regimes for which native plant and animal communities are adapted can degrade habitat through overbrowing and trampling.			
		2.3 Livestock Farming & Ranching	and animal communities are adapted can degrade habitat through overbrowing and	1.2 Ecosystem & Natural Process (Re)Creation	When conducting restoration in grassland, utilize seed mixes that reflect declining viability of C3 grasses relative to C4. Refer to spatial models to	11.2 Changes in Geochemical Regimes	Increased CO2 levels may favor greater dominance of C4 species (many noxious weeds) in HGCN.		
			trampling.		understand where risk is greatest.	11.3 Changes in Temperature Regimes	Rapid curing and reduced growing season reduces forage quality due to hot and dry conditions.		
	4.1 Roads & Transportation corridor use, construction, Railroads maintenance, and expansion.		3. Awareness Raising						
		7.3 Other Ecosystem Modifications	Incompatible vegetation management, including timber harvest, and/or lack of vegetation management.	Communications by	Increase awareness of ecosystem services provided by grasslands and economic tradeoffs of grassland conversion. Educate consumers on products that support healthy grasslands and people.	2.1 Annual & Perennial Non- Timber Crops	Conversion of pasture, hay fields, rangeland, and native grassland systems to crops.		
		9.1 Household Sewage & Urban				Timber Crops			
		Waste Water	contamination changes nutrient cycling.	3.1 Outreach &	Increase educational efforts on the benefits of burrowing mammals to grassland habitats and ways landowners and land managers can control or live with these species in ways that minimize impacts to	5.1 Take & Collection	, 0,0		
		9.2 Industrial & Military Effluents	Commercial and industrial effluents.	land — with		of Terrestrial Animals	squirrels, and gophers reduces soil aeration, water infiltration, and seed dispersal and reduces prey base for some SGCN.		
		9.3 Agricultural & Forestry Effluents	Pesticide, herbicide, and fertilizer use, runoff and contamination.			I I	HGCN.	6.1 Recreational	Recreational use of public lands including
1.1 Site/Area Stewardship	Remove encroaching conifers where they threaten HGCN and use techniques like prescribed burning to maintain restored habitats.	8.2 Problematic Native Plants & Animals	Conifer encroachment and in-growth.						
1.2 Ecosystem & Natural Process	, ,	7.1 Fire & Fire Suppression	Altered fire regimes lead to unnatural fire frequency and severity; Fire suppression leads			9.3 Agricultural & Forestry Effluents	Pesticide, herbicide, and fertilizer use, runoff and contamination.		



SGCN Threats and Actions Tables

Amphibians

Threats and Conservation Actions for All Amphibians

See individual species tables for additional, species-specific threats and conservation actions.

Action Classification	Action	Threat Classification	Threat				
1. Land/Water Protection							
1.1 Site/Area Stewardship	Implement and promote measures to prevent the spread of potentially dangerous pathogens. Respond to site-specific detections of amphibian chytrid fungus and Bsal to prevent spreading.	8.4 Pathogens & Microbes	Amphibian chytrid fungus, <u>Bsal</u> , and red- leg disease can impact populations or directly kill individuals.				
2. Species Managemei	nt						
2.1 Species Stewardship	Work with fisheries biologists to remove non-native fish or control their populations where appropriate and feasible, and to minimize any impacts of piscicides/rotenone on SGCN.	7.2 Dams & Water Management / Use	Habitat fragmentation from dams and irrigation diversions. Reservoirs can create suitable habitat for invasive non-native predators and are hot spots for non-native predator introduction. Irrigation withdrawals reduce habitat suitability, connectivity and cause entrainment.				
3. Awareness Raising		8.1 Invasive Non- Native/Alien Plants & Animals	Competition with and predation by non- native fish species.				

3.1 Outreach &	Promote messaging about the dangers of spreading	8.4 Pathogens &	Amphibian chytrid fungus, Bsal, and red-
Communications	aquatic invasive species and preventative measures	Microbes	leg disease can impact populations or
	(e.g., 'Clean, Drain, Dry'). Work with fisheries staff,		directly kill individuals.
	fishing guides, and other users of waterbodies to		
	consistently disinfect gear to prevent the spread of		
	disease (e.g., amphibian chytrid fungus), identify		
	fish/amphibian die offs, and collect samples if		
	warranted.		

Coeur d'Alene Salamander Threats and Conservation Actions

See Threats and Conservation Actions - All Amphibians for additional threats and conservation actions.

Action Classification	Action	Threat Classification	Threat				
1. Land/Water Protection							
1.1 Site/Area	Refrain from conducting prescribed burns during	7.1 Fire & Fire	Wildfires and prescribed fires alter and/or				
Stewardship	active movement seasons in known salamander range.	Suppression	fragment habitat, which can result in				
			increased erosion and sedimentation that				
			could destroy subterranean refugia, lead to				
			individual or sub-population mortalities,				
			and impede movement between sites.				
			Commonly used fire retardants may be				
			toxic to salamanders.				
5. Livelihood Economic	& Moral Incentives						
5.2 Better Products &	Avoid or minimize road construction upstream within	4.1 Roads & Railroads	Road infrastructure and maintenance				
Management Practices	328 ft (100 m) of known salamander occurrences and		along streams and headwaters can cause				
	ensure that roads are at least 100 ft (30 m) from		water quality issues, habitat degradation				
	waterways.		and fragmentation, and direct mortalities.				
	Buffer known reproductive sites from timber projects	5.3 Logging & Wood	Loss of or disruption to sites critical to				
	and trail/road construction.	Harvesting	survival or reproductive success.				

Conduct clearance surveys.	3.2 Mining & Quarrying	Disturbance from construction and daily
		operations causes localized extirpation
		and reduces the quantity and quality of
		continuous habitat.



SGCN Species Profile & Threats and Actions Table

Western Toad

Anaxyrus boreas

State Rank: S2 | Global Rank: G4

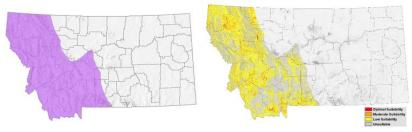


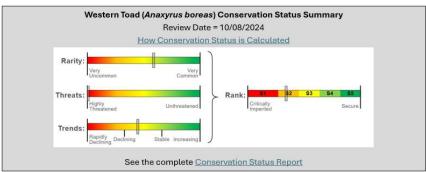
Full species account can be accessed at: https://fieldguide.mt.gov/speciesDetail.aspx?elcode=AAABB01030

Management Plan: [manually add link if exists]

Habitat Associations: Forest and Woodland, Shrubland, and Wetland and Riparian

Stewardship Responsibility: Predicted area of suitable habitat for this species is 58% Federal, 5% State, <1% Local, 5% Conservation Lands/Easements, and 31% Private/Tribal/Unknown.





Western Toad Threats and Conservation Actions

No species-specific threats and conservation actions; see Threats and Conservation Actions – All Amphibians.

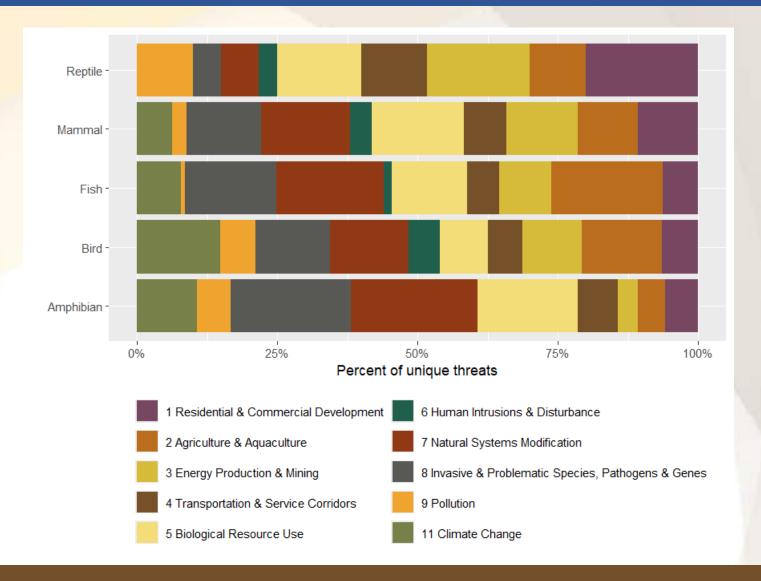
AND

Relevant HGCN Threats and Actions

*48% of species-specific actions relate to habitat



Threats summarize by taxa





SWAP Conservation Dashboard

- Recognizes the complexity of displaying threats and actions
- Collaborative effort with MTNHP
- In development
- User can visualize SGCN & HGCN conservation in 4 ways



Montana's State Wildlife Action Plan:
A Strategy for Conserving Wildlife in Montana

Conservation Dashboards

Montana's State Wildlife Action Plan (SWAP) serves as a blueprint for conservation and provides a catalog on the status of our knowledge about native wildlife and plants, threats to the habitats upon which they depend, and strategies to lessen, mitigate, or manage those threats. These Conservation Dashboards offer multiple lenses through which to view SWAP priority species, identified threats and conservation actions. They provide information about conservation progress that has been made to date, as well as offering insight into conservation actions that remain to be implemented.

These conservation dashboards represent our first attempt at a comprehensive tracking system for the Montana SWAP. They currently only include activities undertaken directly by FWP and, in some situations, may not even fully reflect the work done by FWP. We are actively working on engaging with additional internal staff and will be working with external partners to more fully capture progress on SWAP conservation priorities.

Use the following links to explore SWAP priorities and progress:

Explore by Species

Explore by Habitat

Explore by Action

Explore by Threat

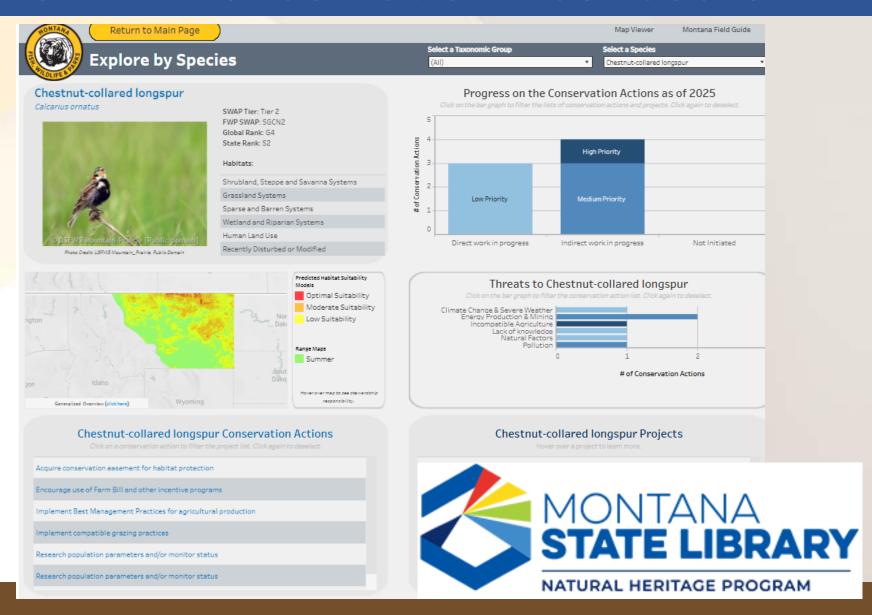
Click here for a complete version of the SWAP





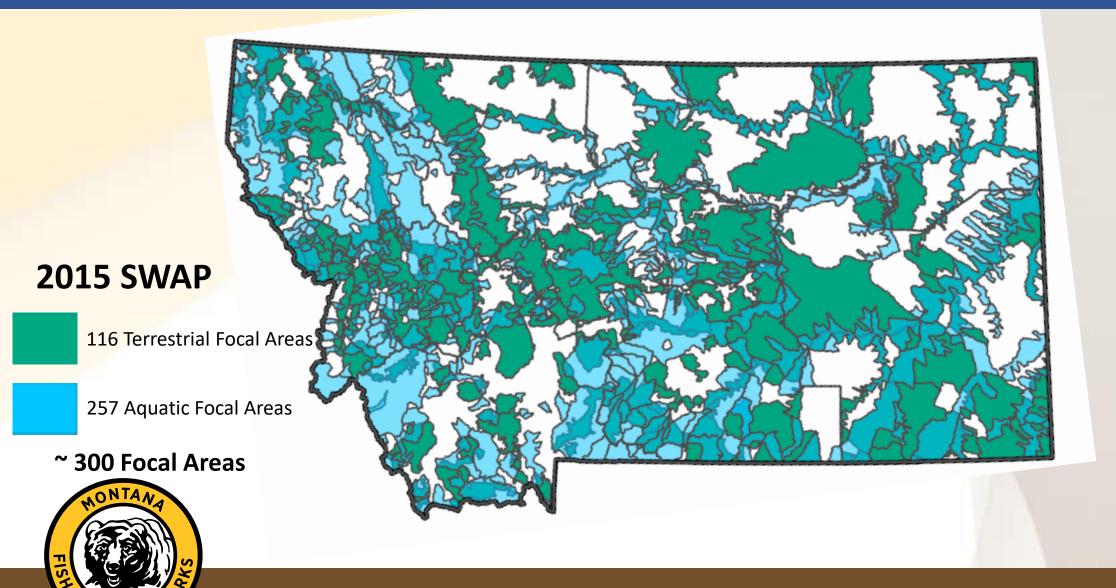


SWAP Conservation Dashboard





Focal Areas



Placeholder Focal Areas Chapter

2025 SWAP

Developing New Approach – action-based maps that identify: WHAT action to take (e.g., riparian restoration)
WHERE distributions of SGCN & HGCN overlap the most to benefit WHO (SGCN & HGCN) and address the highest severity threats

- We envision a suite of focal area maps focused on conservation actions
- Integrate spatial distribution maps for HGCN and SGCN with spatial threats layers
- New focal areas will present a <u>continuous gradient of the level of impact</u> of actions so partners can ID the most impactful places to work within their geographic scope
- Available by October 2026, in the meantime use 2015 SWAP focal areas



Research and Information Needs

SWAP Teams identified 1200 research & monitoring needs

Currently processing to differentiate info needs for:

- Completing a status rank for a species
- Informing conservation actions
- Evaluating habitat treatments
- Illuminating threat mechanisms to facilitate mitigation

In progress – available October 2026





Wildlife Disease Chapter

Supported by funding from USGS North Central CASC

Authors: Kelsey Martin, Wynne Moss, Emily Tomaszewski – USGS Northern Rocky Mtn Science Center

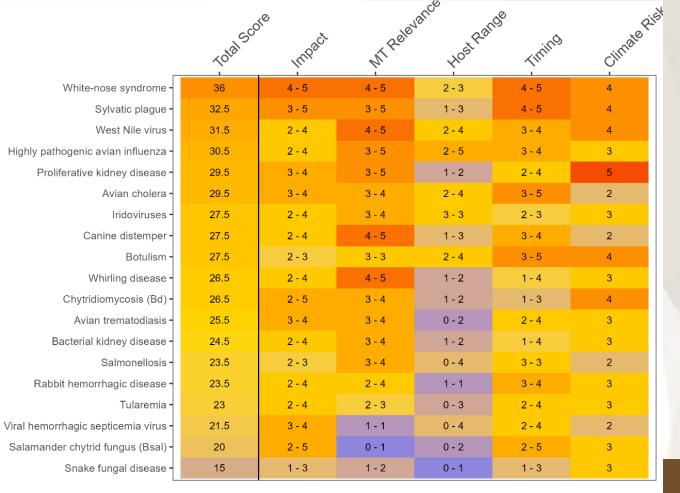


Figure 1. Ranking of wildlife disease threats for Montana's SGCN, ordered from highest (top) to lowest threat (bottom). Number ranges are given where there was uncertainty. Diseases could receive a final score between 9 and 45.



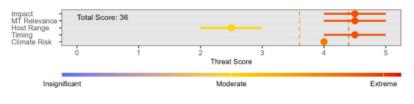
0 (Minor)

5 (Extreme)

Wildlife Disease Chapter

MONTANA STATE WILDLIFE ACTION PLAN - 2025

White-nose Syndrome



Drivers

humidity)2

Colony size²⁻⁴

visitation)2-4

Hibernation conditions (temperature,

Species composition within hibernacula²

Anthropogenic activities (e.g., cave

Roosting and social behavior²

Fungal load and prevalence³

SGCN with Known Impacts1,2

Little Brown Myotis

Northern Myotis

Yuma Myotis

Fringed Myotis Long-eared Myotis

Long-legged Myotis

SGCN Susceptible to Infection12

Eastern Red Bat

Pallid Bat

Silver-haired Bat

Townsend's Big-eared Bat

Other Susceptible Montana Species^{1,2}

Big Brown Bat*

California Myotis

Western Small-footed Myotis

*Susceptible to WNS with known impacts

MONTANA STATE WILDLIFE ACTION PLAN - 2025

hibernation (improving survival rates), while increased temperature variability during winter may lead to increased arousals and energy expenditure or alter hibernacula microclimates that either favor or reduce Pd growth^{11,12}. Finally, effects of future climatic shifts, especially increased drought conditions in the west, are predicted to pose significant challenges to overall bat population health, impacting reproduction, range restrictions, and survival¹³.

Conservation Actions

Prevention

- Restrict access and/or advise public to avoid hibernacula during hibernation (October May) to minimize disturbance and prevent spread of Pd^{14,15}.
- Promote adherence to the <u>National White-nose Syndrome Decontamination Protocol</u> for all relevant audiences (e.g., researchers, cavers, etc.)⁶.

Disease Management

- Explore methods to reduce prevalence of Pd in infected hibernacula (e.g., fungicides, sterilization techniques)^{14,15}.
- Participate in WNS vaccination research efforts and consider vaccination in vulnerable Montana bat populations¹⁶.

Species & Habitat Management

- Implement actions that promote bat health and improve adaptive capacity for disease, such as providing heated bat boxes, protecting or enhancing key habitats, preventing disturbance during hibernation, providing supplemental feed to improve bat body condition⁵, or applying topical probiotics in roosting areas^{14,15}.
- Support MT FWP's work in leading the development of Montana's Bat Conservation and Management Plan¹.
- Support overall bat population health by addressing other sources of population decline (e.g., improper building exclusions, habitat loss, wind energy, impacts of climate change, etc.) via education, Best Management Practices, Standard Operating Procedures, and other recommendations^{14,15}.

Surveillance & Monitoring

- Continue implementing and advancing the multimodal NABat monitoring framework (e.g., acoustics, colony counts, capture data) as it applies to Montana FWP's <u>WNS</u> and PD Surveillance and Monitoring¹.
- Utilize methods from the National Wildlife Health Center's Model Guided Surveillance¹.
- Continue developing the "Bat Acoustic Call Library" (acoustic recordings of echolocation sequences from known species) to improve detection of species-specific population changes⁶.

Research/knowledge gaps

- Susceptibility and survival rates for Montana bat species and species-specific WNS
 epidemiology¹⁴, including sublethal effects and impacts on reproductive success
- Research on the adaptive capacities of bat populations that allow for recovery and persistence in the presence of Pd

Background

White-nose Syndrome (WNS) is a fungal skin disease of hibernating bats that has had devastating impacts since its North American emergence in New York in 2006⁴. It is caused by the fungus *Psuedogymnoascus destructans* (Pd), which infects bats during fall and winter months. Bats are exposed through direct contact with contaminated surfaces or other infected bats². Infection leads to increases in arousal frequency during hibernation and physiological stress, which result in dehydration, starvation, and frequently, death. If infected bats survive to spring emergence, they may later die of severe inflammation associated with disease impacts, further contributing to population declines⁴. Peak transmission occurs in late autumn or early winter as bats return to infected hibernacula and come into contact with one another³, as disease progresses, mortality rates and overall prevalence are usually highest by the end of winter. Roosting behavior, hibernaculum conditions (e.g., temperature, humidity), and species-specific tolerance are key factors that influence which bat populations are most at-risk from



Wildlife Viewing and Education Chapter

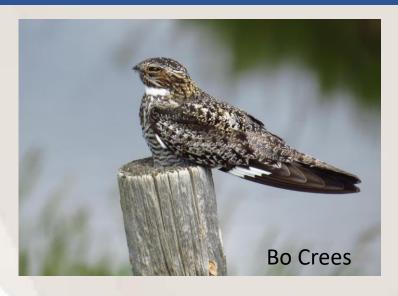
Enhancing conservation of SGCN and their habitats through communication, education, citizen science, and wildlife viewing

4 broad strategies

- Communication
- Education
- Citizen Science
- Wildlife Viewing

SWAP identified dozens Conservation Actions
Partner engagement
Hiring a Watchable Wildlife Program Coordinator







Questions?

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