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Montana Fish,  
Wildlife & Parks

# MONTANA ANIMAL SPECIES OF CONCERN

JULY 2004

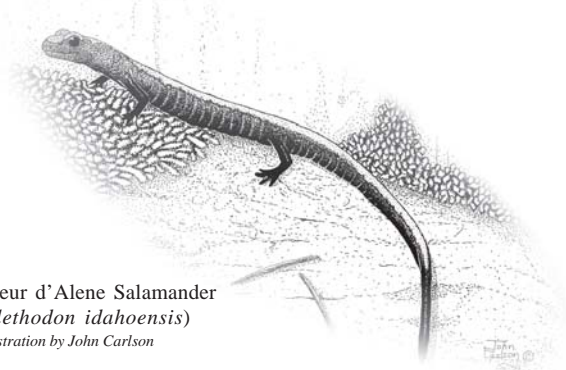
## INTRODUCTION

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

Also included in this report are *Potential Species of Concern* -- animals for which current, often limited, information suggests potential vulnerability or for which additional data are needed before an accurate status assessment can be made. Many of these species have ranks reflecting the uncertainty of their status, and we hope that highlighting them as Potential Species of Concern will encourage biologists to conduct surveys and submit new data. The category “Species on Review” included in the 2003 report has been merged into Potential Species of Concern.

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

This report identifies 119 vertebrate and 58 invertebrate Species of Concern. Another 37 vertebrates and 50 invertebrates are identified as Potential Species of Concern. See the “Box Scores” below for totals by animal group. Thirteen species included in the 2003 report have been dropped from consideration (see page 11).



Coeur d'Alene Salamander  
(*Plethodon idahoensis*)  
Illustration by John Carlson

## HERITAGE PROGRAM RANKS

The international network of Natural Heritage Programs employs a standardized ranking system to denote global and state status. Each species is given a global (G) rank, denoting rangewide status, and a state (S) rank for its status in Montana. Status ranks range from 1 (greatest concern) to 5 (least concern). Global ranks are assigned by scientists at NatureServe (the international affiliate organization for the heritage network) in consultation with biologists in the natural heritage programs and other taxonomic experts. State ranks are determined jointly by MTNHP and MFWP biologists, in consultation with other state experts.

The combination of global and state ranks helps describe the proportion of a species' range and/or total population occurring in Montana. For instance, a rank of G3 S3 indicates that Montana comprises most or a very significant portion of an animal's total population. In contrast, an animal ranked G5 S1 often occurs in Montana at the periphery of its much larger range; thus, the state supports a relatively small portion of its total population.

## BOX SCORES

### Species of Concern

Amphibians .....	5
Birds .....	60
Fish .....	18
Mammals .....	27
Reptiles .....	9
Invertebrates - Insects .....	29
Invertebrates - Mollusks .....	22
Invertebrates - Other .....	7

### Potential Species of Concern

Amphibians .....	0
Birds .....	18
Fish .....	10
Mammals .....	9
Reptiles .....	0
Invertebrates - Insects .....	48
Invertebrates - Mollusks .....	2
Invertebrates - Other .....	0

### ***What's on the Lists***

Montana Species of Concern are defined as vertebrate animals with a state rank of S1, S2, or S3. Vertebrate species with a rank indicating uncertainty (SU) or a "range rank" extending below the S3 cutoff (e.g., S3S4) are considered Potential Species of Concern.

Because documentation for invertebrates is typically far less than for vertebrates, only those ranked S1 or S2 are included as Species of Concern. Invertebrates ranked S3 are included only if they are also considered globally vulnerable (G3 or higher) or if experts agree their occurrence in Montana has been adequately documented. All other invertebrates ranked S3 are treated as Potential Species of Concern. Also included as Potential Species of Concern are globally common (G4 or G5) invertebrates with a range rank extending below the S2 cutoff cited above (e.g., S2S4). Invertebrates ranked as SU have been dropped from Potential Concern.

### ***How Species are Ranked***

This year, we began implementing a more rigorous methodology with more consistent and quantifiable criteria to assign status ranks. The goal is to improve the accuracy of ranks and better document the basis for each rank. Having a rigorous and well-documented ranking procedure is especially important to MFWP, which is using status ranks to help set priorities for the state's Comprehensive Fish and Wildlife Plan.

This new approach to assessing species' status is based on methods developed by NatureServe (Master et al. 2003). In December 2003, a group of staff and other experts met to review the proposed process, tested it on a variety of taxa, and endorsed its use in the 2004 status review. Staff then contacted Montana experts for each animal group and asked them to rank species according to six separate criteria. These criteria included population size, area of occupancy in Montana, short and long-term trends, threats, inherent vulnerability, and specificity to environment. Based on this expert input, a preliminary rank was calculated, which then was reviewed with key experts.

It is important to note that while the ranking *process* has changed, the definitions and the fundamental criteria remain the same. The principle difference is that criteria are now being applied in a more rigorous and consistent manner. Detailed documentation of the criteria and assessment process are available on the MTNHP website at [mtnhp.org/animals/index.html](http://mtnhp.org/animals/index.html).

This status assessment process was completed for all of Montana's amphibian, reptile and mammal species. Due to the large number of bird species in the state, only those already on the 2003 Species of Concern list were evaluated to date; the remaining bird species will be assessed in future revisions. Updated ranks for fish are not included in this report, to allow the Montana Chapter of the American Fisheries Society additional time for review; they will be reported in the 2005 update. The new ranking methodology

has not yet been applied to invertebrates, so the ranks presented in this report reflect the traditional ranking approach.

### ***Definitions of Ranks used in this Report***

- G1/S1 At high risk because of extremely limited and/or rapidly declining numbers, range, and/or habitat, making it highly vulnerable to global extinction or extirpation in the state.
- G2/S2 At risk because of very limited and/or declining numbers, range, and/or habitat, making it vulnerable to global extinction or extirpation in the state.
- G3/S3 Potentially at risk because of limited and/or declining numbers, range, and/or habitat, even though it may be abundant in some areas.
- G4/S4 Uncommon but not rare (although it may be rare in parts of its range), and usually widespread. Apparently not vulnerable in most of its range, but possibly cause for long-term concern.
- G5/S5 Common, widespread, and abundant (although it may be rare in parts of its range). Not vulnerable in most of its range.
- GU/SU Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
- GH/SH Historically occurred; may be rediscovered.
- GX/SX Believed to be extinct; historical records only.

### ***Other codes and rank modifiers:***

- B/N State rank modifiers indicating the breeding status for a migratory species; B = Breeding, N = Non-breeding.
- HYB A global rank denoting a hybrid.
- M A state rank modifier indicating migratory stopover status for a species.
- Q A global rank modifier indicating that there are taxonomic questions or problems.
- T Denotes the rank for a subspecific taxon (subspecies or population); appended to the global rank for the full species. The S Rank following applies to the subspecific taxon.
- ? Denotes inexactness or uncertainty.

## HOW TO READ THE LISTS

Species are listed alphabetically by common name within major groups, which are organized alphabetically under Vertebrates and Invertebrates. Species with names **bolded** and underlined are new additions to the Species of Concern or Potential Species of Concern list. (Those downgraded from Concern to Potential Concern are not shown as new.) Where the global or state rank was changed, that rank is bolded and underlined.

Current federal agency status designations are also provided, including legal status under the U.S. Endangered Species Act, and administrative designations of the U.S. Forest Service and Bureau of Land Management. Where the ESA listing status has changed since 2003, the new status is bolded and underlined.

### *Federal Status Designations*

#### **FISH AND WILDLIFE SERVICE**

This column indicates status under the federal Endangered Species Act of 1973 based on categories defined by the U.S. Fish and Wildlife Service (16 U.S.C.A. §1531-1543 (Supp. 1996)).

- E Listed Endangered
- T Listed Threatened
- PE Proposed Endangered
- PT Proposed Threatened
- XN Experimental Nonessential
- C Candidate (species for which the U.S. Fish and Wildlife Service has sufficient information on biological status and threats to propose listing as threatened or endangered)

#### **FOREST SERVICE**

The U.S. Forest Service Manual (2670.22) defines the status of Sensitive species on Forest Service lands. The Regional Forester (Northern Region) designates Sensitive species on National Forests in Montana. This designation applies only on USFS-administered lands.

- S Sensitive; animal species identified by the Regional Forester for which population viability is a concern as evidenced by significant downward trend in population or a significant downward trend in habitat capacity.

#### **BUREAU OF LAND MANAGEMENT**

The BLM 6840 Manual defines the status of species on Bureau of Land Management lands. The Montana State Office of the BLM assigns these designations in 1996. They apply only on BLM-administered lands.

- S Sensitive; species that are proven imperiled in at least part of their ranges and are documented to occur on BLM lands.

## ADDITIONAL INFORMATION

Our internet-based *Field Guide to Montana's Animals*, completed in 2003, provides information on over 600 vertebrate species, including Species of Concern and Potential Species of Concern. The Field Guide offers a broad range of information, including species identification, range, habitat, reproduction, food habits, ecology, management, and references. For many Species of Concern, the Field Guide provides extensive detailed information from the databases of MTNHP. Photos and call recordings are provided where available.

The Field Guide can be accessed through the Natural Heritage Program web page at [mtnhp.org](http://mtnhp.org) and the Montana Fish, Wildlife and Parks web page at [www.fwp.state.mt.us](http://www.fwp.state.mt.us). The MTNHP website also offers the Montana Bird Distribution Database, where anyone can enter – and access – statewide bird observation data.

The NatureServe Explorer website provides information on the status of species throughout North America. It can be found at [www.natureserve.org/explorer](http://www.natureserve.org/explorer) or from a link on the MTNHP website. This application includes status maps showing the state/provincial ranks across each species' range, assembled from the network of natural heritage programs. (Note that updated ranks for Montana animals will not be immediately reflected in NatureServe Explorer.)

More detailed data on the occurrence of Montana Species of Concern are available on request from MTNHP, using the "Get Data" function on the website or through the contact information provided there.

This report is available in electronic format on the MTNHP website under "Reports." Hard copies are available on request from MTNHP (see box below) or from MFWP at (406) 444-2535.

### *Comments and Feedback*

We welcome comments and suggestions, including recommendations for additions or insights into species' status, as well as new observation data. All comments and information should be directed to MTNHP at [mtnhp@state.mt.us](mailto:mtnhp@state.mt.us) or the address below. Please submit observations using forms available on the MTNHP website (select "Animals" then "Submit Data").

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We would also like to recognize and extend special thanks to the many, many biologists who have provided data and information, conducted status evaluations and reviewed species ranks throughout this process.

## SPECIES OF CONCERN

Common Name	Scientific Name	Global Rank	State Rank	USFWS	USFS	BLM
<b>Amphibians</b>						
Boreal Toad	<i>Bufo boreas boreas</i>	G4T4	<u>S2</u>			
Coeur d'Alene Salamander	<i>Plethodon idahoensis</i>	G4	S2		S	S
Great Plains Toad	<i>Bufo cognatus</i>	G5	<u>S2</u>			
Northern Leopard Frog	<i>Rana pipiens</i> (E. of cont. divide)	G5	S3		S	
Northern Leopard Frog	<i>Rana pipiens</i> (W. of cont. divide)	G5	S1		S	
Plains Spadefoot	<i>Spea bombifrons</i>	G5	<u>S3</u>			
<b>Birds</b>						
Alder Flycatcher	<i>Empidonax alnorum</i>	G5	S1B			
American White Pelican	<i>Pelecanus erythrorhynchos</i>	G3	S3B			
Baird's Sparrow	<i>Ammodramus bairdii</i>	G4	<u>S2B</u>		S	S
Bald Eagle	<i>Haliaeetus leucocephalus</i>	G4	S3B,S3N	T		
Barn Owl	<i>Tyto alba</i>	G5	S1B,S1N			
Black Rosy-Finch	<i>Leucosticte atrata</i>	G4	<u>S2</u>			
Black Swift	<i>Cypseloides niger</i>	G4	S3B			
Black Tern	<i>Chlidonias niger</i>	G4	S3B			S
Black-and-white Warbler	<i>Mniotilta varia</i>	G5	S2S3B			
Black-backed Woodpecker	<i>Picoides arcticus</i>	G5	<u>S2</u>		S	S
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>	G5	S3B			
Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>	G5	S1B			
<b>Bobolink</b>	<i>Dolichonyx oryzivorus</i>	G5	<u>S2B</u>			
Boreal Chickadee	<i>Poecile hudsonica</i>	G5	S1S2			
<b>Brewer's Sparrow</b>	<i>Spizella breweri</i>	G5	<u>S2B</u>			
Broad-tailed Hummingbird	<i>Selasphorus platycercus</i>	G5	S1B			
Burrowing Owl	<i>Athene cunicularia</i>	G4	<u>S2B</u>		S	S
Caspian Tern	<i>Sterna caspia</i>	G5	S2B			
Cassin's Kingbird	<i>Tyrannus vociferans</i>	G5	S2B			
<b>Chestnut-collared Longspur</b>	<i>Calcarius ornatus</i>	G5	<u>S3B</u>			
Columbian Sharp-tailed Grouse	<i>Tympanuchus phasianellus columbianus</i>	G4T3	S1		S	S
Common Loon	<i>Gavia immer</i>	G5	S2B		S	S
Common Tern	<i>Sterna hirundo</i>	G5	S3B			
Dickcissel	<i>Spiza americana</i>	G5	S1S2B			S
Eastern Bluebird	<i>Sialia sialis</i>	G5	S2B			
Ferruginous Hawk	<i>Buteo regalis</i>	G4	<u>S2B</u>			S
Flammulated Owl	<i>Otus flammeolus</i>	G4	S3B		S	S
Forster's Tern	<i>Sterna forsteri</i>	G5	S2B			
Franklin's Gull	<i>Larus pipixcan</i>	G4G5	S3B			
<b>Grasshopper Sparrow</b>	<i>Ammodramus savannarum</i>	G5	<u>S3B</u>			
Gray-crowned Rosy-Finch	<i>Leucosticte tephrocotis</i>	G5	<u>S2B, S5N</u>			
Great Gray Owl	<i>Strix nebulosa</i>	G5	S3			S
<b>Greater Sage-Grouse</b>	<i>Centrocercus urophasianus</i>	G4	<u>S3</u>		S	S
Harlequin Duck	<i>Histrionicus histrionicus</i>	G4	S2B		S	S
Interior Least Tern	<i>Sterna antillarum athalassos</i>	G4T2Q	S1B	E		
<b>Lark Bunting</b>	<i>Calamospiza melanocorys</i>	G5	<u>S3B</u>			
Le Conte's Sparrow	<i>Ammodramus leconteii</i>	G4	S1S2B			S
Lewis's Woodpecker	<i>Melanerpes lewis</i>	G4	<u>S2B</u>			
<b>Loggerhead Shrike</b>	<i>Lanius ludovicianus</i>	G4	<u>S3B</u>		S	S
<b>Long-billed Curlew</b>	<i>Numenius americanus</i>	G5	<u>S2B</u>			S
<b>McCown's Longspur</b>	<i>Calcarius mccownii</i>	G5	<u>S2B</u>			
Mountain Plover	<i>Charadrius montanus</i>	G2	S2B			

Common Name	Scientific Name	Global Rank	State Rank	USFWS	USFS	BLM
<b>Birds (con't)</b>						
Nelson's Sharp-tailed Sparrow	<i>Ammodramus nelsoni</i>	G5	S1B			
Northern Goshawk	<i>Accipiter gentilis</i>	G5	<b>S3</b>		S	S
Northern Hawk Owl	<i>Surnia ulula</i>	G5	S1B,S1N			
Olive-sided Flycatcher	<i>Contopus cooperi</i>	G4	S3B			
Peregrine Falcon	<i>Falco peregrinus</i>	G4	S2B		S	S
Piping Plover	<i>Charadrius melodius</i>	G3	S2B	T		
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	G5	<b>S3B</b>			
<b>Sage Sparrow</b>	<i>Amphispiza belli</i>	G5	<b>S1S3B</b>			S
<b>Sage Thrasher</b>	<i>Oreoscoptes montanus</i>	G5	<b>S3B</b>			
Sedge Wren	<i>Cistothorus platensis</i>	G5	S1B			
Sprague's Pipit	<i>Anthus spragueii</i>	G4	<b>S2B</b>		S	
<b>Swainson's Hawk</b>	<i>Buteo swainsoni</i>	G5	<b>S3B</b>			S
Trumpeter Swan	<i>Cygnus buccinator</i>	G4	S2B,S2N		S	S
White-faced Ibis	<i>Plegadis chihi</i>	G5	S1B			S
White-tailed Ptarmigan	<i>Lagopus leucurus</i>	G5	S3			
Whooping Crane	<i>Grus americana</i>	G1	S1M	E		
Yellow Rail	<i>Coturnicops noveboracensis</i>	G4	S1B			
Yellow-billed Cuckoo	<i>Coccyzus americanus</i> (E. pop.)	G5	S3B			
<b>Yellow-billed Cuckoo</b>	<i>Coccyzus americanus</i> (W. pop.)	G5	<b>S1S2B</b>	C		
<b>Fish</b>						
Blue Sucker	<i>Cycleptus elongatus</i>	G3G4	S2S3			S
Bull Trout	<i>Salvelinus confluentus</i>	G3	S2	T	S	
Columbia River Redband Trout	<i>Oncorhynchus mykiss gairdneri</i>	G5T4	S1		S	
Fluvial Arctic Grayling	<i>Thymallus arcticus montanus</i>	G5T1Q	S1	C	S	
Northern Redbelly X Finescale Dace	<i>Phoxinus eos x phoxinus neogaeus</i>	HYB	S3			S
Paddlefish	<i>Polyodon spathula</i>	G4	S1S2			S
Pallid Sturgeon	<i>Scaphirhynchus albus</i>	G1	S1	E		
Pearl Dace	<i>Margariscus margarita</i>	G5	S2			S
Sauger	<i>Stizostedion canadense</i>	G5	S2			
Shortnose Gar	<i>Lepisosteus platostomus</i>	G5	S1			S
Sicklefin Chub	<i>Macrohybopsis meeki</i>	G3	S1		S	S
Spoonhead Sculpin	<i>Cottus ricei</i>	G5	S3			
Sturgeon Chub	<i>Macrohybopsis gelida</i>	G3	S2			S
Torrent Sculpin	<i>Cottus rhotheus</i>	G5	S3		S	
Trout-perch	<i>Percopsis omiscomaycus</i>	G5	S2			
Westslope Cutthroat Trout	<i>Oncorhynchus clarki lewisi</i>	G4T3	S2		S	S
White Sturgeon (Kootenai River Population)	<i>Acipenser transmontanus</i>	G4T1Q	S1	E	S	
Yellowstone Cutthroat Trout	<i>Oncorhynchus clarki bouvieri</i>	G4T2	S2		S	S
<b>Mammals</b>						
American Bison (free ranging herds)	<i>Bos bison</i>	G4	S2			
Arctic Shrew	<i>Sorex arcticus</i>	G5	<b>S1S3</b>			
Black-footed Ferret	<i>Mustela nigripes</i>	G1	S1	<b>E, XN</b>		
Black-tailed Jack Rabbit	<i>Lepus californicus</i>	G5	<b>S2</b>			
Black-tailed Prairie Dog	<i>Cynomys ludovicianus</i>	G4	<b>S3</b>	C	S	S
Canada Lynx	<i>Lynx canadensis</i>	G5	S3	T		
Dwarf Shrew	<i>Sorex nanus</i>	G4	<b>S2S3</b>			
<b>Eastern Red Bat</b>	<i>Lasiurus borealis</i>	G5	<b>S2S3</b>			
Fisher	<i>Martes pennanti</i>	G5	S3		S	S

Common Name	Scientific Name	Global Rank	State Rank	USFWS	USFS	BLM
<b>Mammals (con't)</b>						
Fringed Myotis	<i>Myotis thysanodes</i>	G4G5	S3			
Gray Wolf	<i>Canis lupus</i>	G4	<b>S3</b>	<b>I, XN</b>		
Grizzly Bear	<i>Ursus arctos horribilis</i>	G4T3T4	S2S3	T		
Great Basin Pocket Mouse	<i>Perognathus parvus</i>	G5	<b>S2S3</b>			
Hispid Pocket Mouse	<i>Chaetodipus hispidus</i>	G5	<b>S1S3</b>			
Meadow Jumping Mouse	<i>Zapus hudsonius</i>	G5	<b>S2</b>			S
Merriam's Shrew	<i>Sorex merriami</i>	G5	S3			S
North American Wolverine	<i>Gulo gulo luscus</i>	G4T4	S3		S	S
Northern Bog Lemming	<i>Synaptomys borealis</i>	G4	S2		S	S
<b>Northern Myotis</b>	<i>Myotis septentrionalis</i>	G4	<b>S2S3</b>			
Pallid Bat	<i>Antrozous pallidus</i>	G5	<b>S2</b>			
Preble's Shrew	<i>Sorex preblei</i>	G4	S3			S
Pygmy Rabbit	<i>Brachylagus idahoensis</i>	G4	S3		S	S
Spotted Bat	<i>Euderma maculatum</i>	G4	<b>S2</b>			
Swift Fox	<i>Vulpes velox</i>	G3	S3		S	S
Townsend's Big-eared Bat	<i>Corynorhinus townsendii</i>	G4	<b>S2</b>		S	S
Uinta Chipmunk	<i>Tamias umbrinus</i>	G5	S3			
White-tailed Prairie Dog	<i>Cynomys leucurus</i>	G4	S1		S	S
<b>Reptiles</b>						
Greater Short-horned Lizard	<i>Phrynosoma hernandesi</i>	G5	S3			
Milk Snake	<i>Lampropeltis triangulum</i>	G5	S2			
Northern Alligator Lizard	<i>Elgaria coerulea</i>	G5	S3			
Sagebrush Lizard	<i>Sceloporus graciosus</i>	G5	S3			
Smooth Green Snake	<i>Liochlorophis vernalis</i>	G5	<b>S2</b>			
Snapping Turtle	<i>Chelydra serpentina</i>	G5	S3			S
Spiny Softshell	<i>Apalone spinifera</i>	G5	S3			S
Western Hognose Snake	<i>Heterodon nasicus</i>	G5	<b>S2</b>			
Western Skink	<i>Eumeces skiltonianus</i>	G5	S3			
<b>Invertebrates - Insects</b>						
<b>Beetles</b>						
Brown's Microcylloepus Riffle Beetle	<i>Microcylloepus browni</i>	G1	S1			
Warm Spring Zaitzevian Riffle Beetle	<i>Zaitzevia thermae</i>	G1	S1	C		
<b>Butterflies</b>						
<b>Alberta Fritillary</b>	<i>Boloria alberta</i>	G3	<b>S2S3</b>			
<b>Frigga's Fritillary</b>	<i>Boloria frigga</i>	G5	<b>S1S2</b>			
Gillette's Checkerspot	<i>Euphydryas gillettii</i>	G2G3	S2			
<b>Gray Comma</b>	<i>Polygonia progne</i>	G5	<b>S2</b>			
<b>Magdalena Alpine</b>	<i>Erebia magdalena</i>	G5	<b>S2</b>			
Ottoo Skipper	<i>Hesperia ottoe</i>	G3G4	S2S3		S	
<b>Caddisflies</b>						
A Caddisfly	<i>Rhyacophila ebria</i>	G1?	S1?			
A Rhyacophilan Caddisfly	<i>Rhyacophila newelli</i>	G2?	S2?			
A Rhyacophilan Caddisfly	<i>Rhyacophila glacieri</i>	G1	S1			
Alexander's Rhyacophilan Caddisfly	<i>Rhyacophila alexanderi</i>	G2	S2			
An Agapetus Caddisfly	<i>Agapetus montanus</i>	G2?	S2?			
<b>Damselflies</b>						
Last Best Place Damselfly	<i>Enallagma optimolocus</i>	G1G3Q	S1S3			
Subarctic Bluet	<i>Coenagrion interrogatum</i>	G5	S1S2			
<b>Dragonflies</b>						
Boreal Whiteface	<i>Leucorrhinia borealis</i>	G5	S1			

Common Name	Scientific Name	Global Rank	State Rank	USFWS	USFS	BLM
<b>Invertebrates - Insects (con't)</b>						
<b>Dragonflies (con't)</b>						
Brush-tipped Emerald	<i>Somatochlora walshii</i>	G5	S1S2			
Eastern Ringtail	<i>Erpetogomphus designatus</i>	G5	S1			
Subarctic Darner	<i>Aeshna subarctica</i>	G5	S1S2			
Western Pondhawk	<i>Erythemis collocata</i>	G5	S1S2			
<b>Mayflies</b>						
A Mayfly	<i>Caenis youngi</i>	G4	S2			
<b>Springtails</b>						
A Springtail	<i>Oncopodura cruciata</i>	G1G2	S1S2			
<b>Stoneflies</b>						
A Stonefly	<i>Isocapnia crinita</i>	G4	S2			
A Stonefly	<i>Isocapnia integra</i>	G4	S2			
A Stonefly	<i>Utacapnia columbiana</i>	G4	S2			
A Stonefly	<i>Zapada cordillera</i>	G3	S2			
A Stonefly	<i>Isoperla petersoni</i>	G5	S2			
Meltwater Lednian Stonefly	<i>Lednia tumana</i>	G1	S1			
Western Glacier Stonefly	<i>Zapada glacier</i>	G2	S1			
<b>Invertebrates - Mollusks</b>						
Alpine Mountainsnail	<i>Oreohelix alpina</i>	G1	S1			
Berry's Mountainsnail	<i>Oreohelix strigosa berryi</i>	G5T2	S1S2			
Bitterroot Mountainsnail	<i>Oreohelix amariradix</i>	G1G2	S1S2			
Carinate Mountainsnail	<i>Oreohelix elrodi</i>	G1	S1			
<b>Fir Pinwheel</b>	<i>Radiodiscus abietum</i>	G3	<b>S2S3</b>			
Flathead Pondsnailed	<i>Stagnicola elrodi</i>	G1	S1			
Gallatin Mountainsnail	<i>Oreohelix yavapai mariae</i>	<b>G4T1Q</b>	S1			
<b>Humped Coin</b>	<i>Polygyrella polygyrella</i>	G2G3	<b>S1S3</b>			
Keeled Mountainsnail	<i>Oreohelix carinifera</i>	G1	S1			
Large-mantle Physa	<i>Physa megalochlamys</i>	G3	S1			
Largemouth Pondsnailed	<i>Stagnicola elrodiana</i>	G1	S1			
<b>Lyre Mantleslug</b>	<i>Udosarx lyrata lyrata</i>	<b>G2T2</b>	<b>S1</b>			
Marbled Jumping-slug	<i>Hemphillia danielsi</i>	G1G3	S1S3			
Mission Range Disc	<i>Discus brunsoni</i>	G1	S1			
Mountain Marshsnail	<i>Stagnicola montanensis</i>	G3	S1S3			
Rocky Mountain Capshell	<i>Acroloxus coloradensis</i>	G1G2	S1			
Rocky Mountain Dusksnail	<i>Colligyrus greggi</i>	G3G4	S1			
Russell Mantleslug	<i>Udosarx lyrata russelli</i>	<b>G2T1</b>	S1			
Sheathed Slug	<i>Zacoleus idahoensis</i>	G3G4	S2S3			
Shortface Lanx	<i>Fisherola nuttalli</i>	G2	<b>S1S3</b>			
Spotted Slug	<i>Magnipelta mycophaga</i>	G2G3	S1S3			
Striate Disc	<i>Discus shimekii</i>	<b>G5</b>	S1			
<b>Invertebrates - Other</b>						
<b>Arachnids</b>						
A cave obligate Harvestman	<i>Cryptobunus cavicolus</i>	G1G2	S1S2			
<b>Crustaceans</b>						
A cave obligate Amphipod	<i>Stygobromus glacialis</i>	G1G2	S1S2			
A cave obligate Amphipod	<i>Stygobromus montanensis</i>	G1G2	S1S2			
A cave obligate Amphipod	<i>Stygobromus obscurus</i>	G1G2	S1S2			
A cave obligate Amphipod	<i>Stygobromus puteanus</i>	G1G2	S1S2			
A cave obligate Amphipod	<i>Stygobromus tritus</i>	G1G2	S1S2			
A cave obligate Isopod	<i>Salmasellus steganothrix</i>	G2G3	S1S2			



## POTENTIAL SPECIES OF CONCERN

Common Name	Scientific Name	Global Rank	State Rank	USFWS	USFS	BLM
<b>Birds</b>						
American Three-toed Woodpecker	<i>Picooides dorsalis</i>	G5	<b>S3S4</b>			
<b>Baltimore Oriole</b>	<i>Icterus galbula</i>	G5	<b>S3S4B</b>			
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	G5	<b>S3S4B</b>			
Black-necked Stilt	<i>Himantopus mexicanus</i>	G5	<b>S3S4B</b>			
Chimney Swift	<i>Chaetura pelagica</i>	G5	<b>S3S4B</b>			
Clark's Grebe	<i>Aechmophorus clarkii</i>	G5	<b>S2S4B</b>			
Common Poorwill	<i>Phalaenoptilus nuttallii</i>	G5	<b>S3S4B</b>			
Eastern Screech-Owl	<i>Megascops asio</i>	G5	<b>S3S4</b>			
Great Blue Heron	<i>Ardea herodias</i>	G5	<b>S3S4</b>			
Horned Grebe	<i>Podiceps auritus</i>	G5	S4			
<b>Indigo Bunting</b>	<i>Passerina cyanea</i>	G5	<b>S2S4B</b>			
Orchard Oriole	<i>Icterus spurius</i>	G5	<b>S2S4B</b>			
Ovenbird	<i>Seiurus aurocapilla</i>	G5	<b>S3S4B</b>			
Plumbeous Vireo	<i>Vireo plumbeus</i>	G5	<b>S3S4B</b>			
Short-eared Owl	<i>Asio flammeus</i>	G5	<b>S3S4</b>			
Tennessee Warbler	<i>Vermivora peregrina</i>	G5	<b>S2S4B</b>			
Western Screech-Owl	<i>Megascops kennicottii</i>	G5	<b>S3S4</b>			
Williamson's Sapsucker	<i>Sphyrapicus thyroideus</i>	G5	<b>S3S4B</b>			
<b>Fish</b>						
Brassy Minnow	<i>Hybognathus hankinsoni</i>	<b>G5</b>	SU			
Brook Stickleback	<i>Culaea inconstans</i>	G5	SU			
Burbot	<i>Lota lota</i>	G5	SU		S	
Creek Chub	<i>Semotilus atromaculatus</i>	G5	SU			
Iowa Darter	<i>Etheostoma exile</i>	G5	SU			
<b>Lake Trout (Native Population)</b>	<i>Salvelinus namaycush</i>	G5	<b>SU</b>			
Northern Red-bellied Dace	<i>Phoxinus eos</i>	G5	SU			
Plains Minnow	<i>Hybognathus placitus</i>	G4	SU			
Pygmy Whitefish	<i>Prosopium coulteri</i>	G5	SU			
Shorthead Sculpin	<i>Cottus confusus</i>	G5	SU			
<b>Mammals</b>						
<b>Hayden's Shrew</b>	<i>Sorex haydeni</i>	G4	<b>S3S4</b>			
<b>Hoary Bat</b>	<i>Lasiurus cinereus</i>	G5	<b>S3S4</b>			
<b>Hoary Marmot</b>	<i>Marmota calagata</i>	G5	<b>S3S4</b>			
<b>Idaho Pocket Gopher</b>	<i>Thomomys idahoensis</i>	G4	<b>S2S4</b>			
<b>Silver-haired Bat</b>	<i>Lasionycteris noctivagans</i>	G5	<b>S3S4</b>			
<b>Uinta Ground Squirrel</b>	<i>Spermophilus armatus</i>	G5	<b>S3S4</b>			
Western Spotted Skunk	<i>Spilogale gracilis</i>	G5	<b>S2S4</b>			
<b>Wyoming Ground Squirrel</b>	<i>Spermophilus elegans</i>	G5	<b>S3S4</b>			
Yuma Myotis	<i>Myotis yumanensis</i>	G5	<b>S3S4</b>			
<b>Invertebrates - Insects</b>						
<b>Beetles</b>						
<b>A Tiger Beetle</b>	<i>Cicindela cuprascens</i>	G5	<b>S3</b>			
<b>A Tiger Beetle</b>	<i>Cicindela limbata</i>	G5	<b>S3</b>			
<b>Butterflies</b>						
<b>Astarte Fritillary</b>	<i>Boloria astarte</i>	G5	<b>S2S3</b>			
<b>Colorado Alpine</b>	<i>Erebia callias</i>	G5	<b>S2S3</b>			
<b>Damoetus Checkerspot</b>	<i>Chlosyne damoetas</i>	G4G5	<b>S3S5</b>			
<b>Eyed Brown</b>	<i>Satyroides eurydice</i>	G4	<b>S2S3</b>			

Common Name	Scientific Name	Global Rank	State Rank	USFWS	USFS	BLM
<b>Invertebrates - Insects (con't)</b>						
<b>Butterflies (con't)</b>						
<u>Freija Fritillary</u>	<i>Boloria freija</i>	G5	<b>S3S5</b>			
<u>Giant Sulfur</u>	<i>Colias gigantea</i>	G5	<b>S3</b>			
<u>Indra Swallowtail</u>	<i>Papilio indra</i>	G5	<b>S2S3</b>			
<u>Labrador Sulfur</u>	<i>Colias nastes</i>	G5	<b>S2S3</b>			
<u>Melissa Arctic</u>	<i>Oeneis melissa</i>	G5	<b>S2S3</b>			
<u>Mormon Metalmark</u>	<i>Apodemia mormo</i>	G5	<b>S3S5</b>			
<u>Northern Marble</u>	<i>Euchloe creusa</i>	G5	<b>S1S3</b>			
<u>Red-disked Alpine</u>	<i>Erebia discoidalis</i>	G5	<b>S3S5</b>			
Tawny Crescent	<i>Phyciodes batesii</i>	G4	S2S3			S
<u>White Admiral</u>	<i>Limenitis arthemis</i>	G5	<b>S2S3</b>			
<u>White-veined Arctic</u>	<i>Oeneis bore</i>	G5	<b>S2S3</b>			
<b>Damselflies</b>						
Alkali Bluet	<i>Enallagma clausum</i>	G5	S2S4			
<u>Arroyo Bluet</u>	<i>Enallagma praevarum</i>	G5	<b>S3S5</b>			
<u>Emma's Dancer</u>	<i>Argia emma</i>	G5	<b>S3S5</b>			
Familiar Bluet	<i>Enallagma civile</i>	G5	S2S4			
Paiute Dancer	<i>Argia alaberta</i>	G4	S2S3			
Prairie Bluet	<i>Coenagrion angulatum</i>	G5	S1S3			
<u>Vivid Dancer</u>	<i>Argia vidida</i>	G5	<b>S3S5</b>			
<b>Dragonflies</b>						
Black-tipped Darner	<i>Aeshna tuberculifera</i>	G4	S2S4			
Blue-eyed Darner	<i>Aeshna multicolor</i>	G5	S2S4			
<u>California Darner</u>	<i>Aeshna californica</i>	G5	<b>S3S5</b>			
<u>Chalk-fronted Skimmer</u>	<i>Libellula julia</i>	G5	<b>S3S4</b>			
<u>Common Whitetail</u>	<i>Libellula lydia</i>	G5	<b>S3S5</b>			
<u>Crimson-winged Whiteface</u>	<i>Leucorrhinia glacialis</i>	G5	<b>S3</b>			
<u>Eight-spotted Skimmer</u>	<i>Libellula forensis</i>	G5	<b>S3S5</b>			
<u>Flame Skimmer</u>	<i>Libellula saturata</i>	G5	<b>S2S4</b>			
Horned Clubtail	<i>Argomphus cornutus</i>	G4	S2S4			
<u>Hudsonian Emerald</u>	<i>Somatochlora hudsonica</i>	G5	<b>S2S4</b>			
<u>Lake Darner</u>	<i>Aeshna eremita</i>	G5	<b>S3S4</b>			
Lance-tipped Darner	<i>Aeshna constricta</i>	G5	S1S3			
<u>Mountain Emerald</u>	<i>Somatochlora semicircularis</i>	G5	<b>S3S5</b>			
Ocellated Emerald	<i>Somatochlora minor</i>	G5	S2S4			
Plains Clubtail	<i>Gomphus externus</i>	G5	S2S4			
<u>Pronghorn Clubtail</u>	<i>Gomphus graslinellus</i>	G5	<b>S3S5</b>			
Red-veined Meadowhawk	<i>Sympetrum madidum</i>	G4	S2S3			
Ringed Emerald	<i>Somatochlora albicincta</i>	G5	S1S3			
<u>River Jewelwing</u>	<i>Calopteryx aequabilis</i>	G5	<b>S3S4</b>			
<u>Rush Darner</u>	<i>Aeshna juncea</i>	G5	<b>S3S5</b>			
Sinuuous Snaketail	<i>Ophiogomphus occidentis</i>	G4	S2S4			
<u>Spiny Baskettail</u>	<i>Epitheca spinigera</i>	G5	<b>S3S5</b>			
<u>Twelve-spotted Skimmer</u>	<i>Libellula pulchella</i>	G5	<b>S3S5</b>			
Zigzag Darner	<i>Aeshna sitchensis</i>	G5	S2S3			
<b>Invertebrates - Mollusks</b>						
<u>Threeridge Valvata</u>	<i>Valvata tricarnata</i>	G5	<b>S2S3</b>			
Western Pearlshell	<i>Margaritifera falcata</i>	G4	<b>S2S4</b>			

## SPECIES REMOVED FROM CONCERN

Common Name	Scientific Name	Global Rank	State Rank
<b>Mammals</b>			
Pygmy Shrew	<i>Sorex hoyi</i>	G5	S4

## SPECIES REMOVED FROM REVIEW

Common Name	Scientific Name	Global Rank	State Rank
<b>Birds</b>			
Cassin's Vireo	<i>Vireo cassinii</i>	G5	S4
Wilson's Phalarope	<i>Phalaropus tricolor</i>	G5	S4
<b>Mammals</b>			
Eastern Cottontail	<i>Sylvilagus floridanus</i>	G5	S4
<b>Reptiles</b>			
Common Garter Snake	<i>Thamnophis sirtalis</i>	G5	S4
<b>Damselflies</b>			
Sweetflag Spreadwing	<i>Lestes forcipatus</i>	G5	SU
Variable Dancer	<i>Argia fumipennis violacea</i>	G5T5	SU
<b>Dragonflies</b>			
Canada Darner	<i>Aeshna canadensis</i>	G5	SU
Pacific Spiketail	<i>Cordulegaster hageni</i>	G5	SU
Plains Emerald	<i>Somatochlora ensigera</i>	G4	SU
Wandering Glider	<i>Pantala flavescens</i>	G5	SU
<b>Mollusks</b>			
Columbia Pebblesnail	<i>Fluminicola fuscus</i>	G3	SU
Prairie Sprite	<i>Promenetus exacuus megas</i>	G5TU	SU