



MONTANA NATURAL HERITAGE PROGRAM

1515 East Sixth Avenue
P.O. Box 201800
Helena, Montana 59620-1800
(406) 444-3009

ANIMAL SPECIES OF SPECIAL CONCERN

FEBRUARY, 1994

The Montana Natural Heritage Program (MTNHP) is conducting an inventory of the elements of biological diversity in Montana. The inventory focuses on plant species, animal species, and plant communities that are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of animal species of special concern in Montana is used to direct data acquisition by the MTNHP, and provide information to others on the current status of these species. It has been developed largely from information supplied by field research and inventories, and input from knowledgeable individuals. Background information was obtained from sources such as Vertebrate Species of Special Interest or Concern (Flath 1984), P. D. Skaar's Montana Bird Distribution (Bergeron, et al. 1992), Fishes of Montana (Brown 1971), the Notice of Review for vertebrates, and from the scientific literature, personal contacts, and museum specimens. This list is dynamic and is periodically revised as new data become available to the MTNHP.

Written comments and suggestions are continually needed on this list, particularly regarding recommended additions or deletions. New locational information for any of these taxa is also being solicited. The MTNHP can supply current locational information and status data for most of these taxa.

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Taxa are evaluated and ranked by the Heritage Program on the basis of their global (range-wide) status, and their state-wide status. These ranks are used to determine protection and data collection priorities, and are revised as new information becomes available.

A scale of 1 (critically imperiled) to 5 (demonstrably secure) is used for these ranks, and each species is assigned the appropriate combination of global and state ranks.

Example: common loon = G5 / S3 (i.e., species is demonstrably secure globally; in Montana is found within a restricted range).

Global and state ranks are assigned according to a standardized procedure used by all Natural Heritage Programs, and are defined below.

Global/State Rank		Definition (G = Range-wide; S = Montana)
G1	S1	Critically imperiled because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.
G2	S2	Imperiled because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range.
G3	S3	Either very rare and local throughout its range, or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction throughout its range because of other factors; in the range of 21 to 100 occurrences.
G4	S4	Apparently secure, though it may be quite rare in parts of its range, especially at the periphery.
G5	S5	Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery.
GU	SU	Possibly in peril, but status uncertain; more information needed.
GH	SH	Historically known; may be rediscovered.
GX	SX	Believed to be extinct; historical records only, continue search.

Other codes:

- A Accidental in the state; including species (usually birds or butterflies) recorded very infrequently, hundreds or thousands of miles outside their usual range.
- B A state rank modifier indicating breeding status for a migratory species. **Example: S1B,S2N** -- breeding occurrences for the species are ranked S1 (critically imperiled) in the state, nonbreeding occurrences are not ranked in the state.
- E An exotic established in the state; may be native in nearby regions.
- HYB Element represents a hybrid of species.
- N A state rank modifier indicating non-breeding status for a migratory species. **Example: S1B,S2N** -- breeding occurrences for the species are ranked S1 (critically imperiled) in the state, nonbreeding occurrences are not ranked in the state.
- P Indicates the element may potentially occur in the

state.

- Q Taxonomic questions or problems involved, more information needed; appended to the global rank.
- R Reported in the state; but lacking documentation which would provide a basis for either accepting or rejecting the report.
- T Rank for a subspecific taxon (subspecies, variety, or population); appended to the global rank for the full species.
- Z Ranking not applicable.

USF&WS (USESA) Status: The symbols in this column denote the categories defined in the U.S. Fish and Wildlife Service Notices of Review (1980, 1983, 1985, 1990), and indicate the status of a taxon with respect to the federal Endangered Species Act of 1973:

- E/SA Treat as endangered because of similarity of appearance.
- LE Endangered
- LT Threatened
- P Proposed E or T
- C1 Notice of Review, Category 1 (substantial biological information on file to support the appropriateness of proposing to list as endangered or threatened).
- C2 Notice of Review, Category 2 (current information indicates that proposing to list as endangered or threatened is possibly appropriate, but substantial biological information is not on file to support an immediate ruling).
- C2* Category 2, and the taxon is possibly extinct.
- 3A Taxa for which the USFWS has persuasive evidence of extinction.
- 3B Names that, on the basis of current taxonomic understanding, do not represent taxa meeting the Endangered Species Act's definition of "species."
- 3C Taxa that have proven to be more abundant or widespread than was previously believed, and/or those that are not subject to any identifiable threat.
- NL Not listed/no designation. (See note below.)

Note: A species can have more than one federal designation if the species' status varies within its range. In these instances the Montana designation is listed first.

Examples: bald eagle = LELT. Species is Listed Endangered in

Montana; elsewhere in its range it may be Listed Threatened.

cutthroat trout = C2NL. Species is a Category 2 in Montana; elsewhere in its range it may not have USF&WS designation.

fisher = NLC2. Species has no USF&WS designation in Montana; elsewhere in its range it may be a Category 2.

USFS Status: The status of species in Montana as defined by the U.S. Forest Service manual (2670.22). These taxa are listed as such by the Regional Forester (Northern Region) on Montana National Forests.

State Status: These symbols give the state legal status of vertebrates as listed in the 1989 Statutes of Montana for the Department of Fish, Wildlife and Parks.

GA = game animal
 GF = game fish
 FB = fur bearing animal
 MB = migratory bird
 UB = upland game bird
 E = endangered
 NG = nongame wildlife
 P = protected species
 U = unprotected species

Management Status:

CD = closed season
 RH = restricted harvest

Selected References:

- Bergeron, D., C. Jones, D. L. Genter, and D. Sullivan. 1992. P. D. Skaar's Montana bird distribution, fourth edition. Special Publication No. 2, Montana Natural Heritage Program, Helena. 116 pp.
- Brown, C. J. D. 1971. Fishes of Montana. Montana State University, Bozeman. 207 pp.
- Federal Register. 1991. Endangered and threatened wildlife and plants; animal candidate review for listing as endangered or threatened species, proposed rule [notice of review]. 56(225):58804-58836. 21 November 1991.
- Flath, D. L. 1984. Vertebrate species of special interest or concern. Montana Department of Fish, Wildlife and Parks. Helena. 76 pp.
- Holton, G. D. 1990. A field guide to Montana fishes. Montana Department of Fish, Wildlife and Parks, Helena. 103 pp.
- Statutes, State of Montana. 1989. A compilation of statutes relating to fish, wildlife, parks, outdoor recreations, and certain other natural resources of the State of Montana. Montana Department of Fish, Wildlife and Parks. Helena. 255 pp.
- Thompson, L. S. 1982. Distribution of Montana amphibians, reptiles, and mammals. Montana Audubon Council, Helena. 24 pp.

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Name Common Name	Global Rank	State Rank	State Status	USF&WS Status	USFS Status
FISH					
COTTUS CONFUSUS SHORTHEAD SCULPIN	G5	S3	NG		SENSITIVE
COTTUS RHOZEUS TORRENT SCULPIN	G5	S2	NG		SENSITIVE
COTTUS RICEI SPOONHEAD SCULPIN	G5?	S1	NG		
ACTIPENSER TRANSMONTANUS WHITE STURGEON (KOOTENAI RIVER POPULATION)	G4T10	S1T1Q	GFRH	PE	SENSITIVE
SCAPHIRHYNCHUS ALBUS PALLID STURGEON	G1	S1	GFRH	LE	ENDANGERED
POLYODON SPATHULA PADDLEFISH	G4	S3	GFRH	C2	
LEPISOSTEUS PLATOSTOMUS SHORTNOSE GAR	G5	S1	NG		
ONCORHYNCHUS CLARKI BOUVIERI YELLOWSTONE CUTTHROAT TROUT	G4T3	S2	GF		SENSITIVE
ONCORHYNCHUS CLARKI LEWISI WESTSLOPE CUTTHROAT TROUT	G4T3	S3	GF		SENSITIVE
ONCORHYNCHUS MYKISS GIBBSI INTERIOR REDBAND TROUT	G5T7	S2	GF	C2	SENSITIVE
SALVELINUS CONFLUENTUS BULL TROUT	G3	S3	GFRH	C2	SENSITIVE
THYMALLUS ARCTICUS MONTANUS MONTANA ARCTIC GRAYLING	G5T2	S1	GFRH	C1	SENSITIVE
PHOXINUS EOS X PHOXINUS NEOGAEUS NORTHERN REDBELLY X FINESCALE DACE	G4	S3	NG		
HYBOPSIS GELIDA STURGEON CHUB	G2	S2	NG	C2	
HYBOPSIS MEEKI SICKLEFIN CHUB	G2	S1	NG	C2	
SEMOTILUS MARGARITA PEARL DACE	G5	S2	NG		
CYCLEPTUS ELONGATUS BLUE SUCKER	G3	S3?	NG	C2	
PERCOPSIS OMISCOMAYCUS TROUT-PERCH	G5	S1	NG		
AMPHIBIANS					
PLETHODON IDAHOENSIS COEUR D'ALENE SALAMANDER	G3Q	S2	NG		SENSITIVE
DICAMPTODON ATERRIMUS IDAHO GIANT SALAMANDER	G4	S1?	NG		
BUFO HEMIPHRYNS CANADIAN TOAD	G5	S1	NG		

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RANA SYLVATICA WOOD FROG	G5	SR	NG		
REPTILES					
CHELYDRA SERPENTINA SNAPPING TURTLE	G5	S3	NG		
APALONE SPINIFERA SPINY SOFTSHELL	G5	S3	NG		
HETERODON NASICUS WESTERN HOGNOSE SNAKE	G5	S3?	NG		
OPHEODRYS VERNALIS SMOOTH GREEN SNAKE	G5	S3	NG		
BIRDS					
GAVIA IMMER COMMON LOON	G5	S3B, SZN	P		SENSITIVE
AECHMOPHORUS CLARKII CLARK'S GREBE	G5	S2S4B, SZN	P		
PELECANUS ERYTHRORHYNCHOS AMERICAN WHITE PELICAN	G3	S2B, SZN	P		
NYCTICORAX NYCTICORAX BLACK-CROWNED NIGHT-HERON	G5	S3B, SZN	P		
PLEGADIS CHIHI WHITE-FACED IBIS	G5	S2B, SZN	P	C2	
CYGNUS BUCCINATOR TRUMPETER SWAN	G4	S1N, S2B	MB	C2N	SENSITIVE
HISTRIONICUS HISTRIONICUS HARLEQUIN DUCK	G5	S2B, SZN	MB	C2	SENSITIVE
HALIAEETUS LEUCOCEPHALUS BALD EAGLE	G3	S3B, S3N	P	LELT	ENDANGERED
ACCIPITER GENTILIS NORTHERN GOSHAWK	G4	S4	P	C2	
BUTEO REGALIS FERRUGINOUS HAWK	G4	S3B, SZN	P	C2	SENSITIVE
FALCO PEREGRINUS PEREGRINE FALCON	G3	S1S2B, SZN	E	E/SA	ENDANGERED
TYMPANUCHUS PHASIANELLUS COLUMBIANUS COLUMBIAN SHARP-TAILED GROUSE	G4T2	S1	UB	C2	SENSITIVE
GRUS AMERICANA WHOOPIING CRANE	G1	S2N	E	LE	ENDANGERED
CHARADRIUS MELODUS PIPING PLOVER	G3	S2B, SZN	P	LTL	THREATENED
CHARADRIUS MONTANUS MOUNTAIN PLOVER	G3	S2B, SZN	P	C2	SENSITIVE
HIMANTOPUS MEXICANUS BLACK-NECKED STILT	G5	S3B, SZN	P		

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LARUS PIPITCAN FRANKLIN'S GULL	G5	S3S4B, SZN	P		
STERNA CASPIA CASPIAN TERN	G5	S3B, SZN	P		
STERNA HIRUNDO COMMON TERN	G5	S3B, SZN	P	NLC2	
STERNA FORSTERI FORSTER'S TERN	G5	S3B, SZN	P		
STERNA ANTILLARUM LEAST TERN	G4	S1B, SZN	P	LEH1	THREATENED
CHLIDONIAS NIGER BLACK TERN	G4	S3B, SZN	P	C2	
COCCYZUS AMERICANUS YELLOW-BILLED CUCKOO	G5	S3B, SZN	P		
OTUS FLAMMEOLUS FLAMMULATED OWL	G4	S1S3B, SZN	P		SENSITIVE
SPEOTYTO CUNICULARIA BURROWING OWL	G4	S3B, SZN	P		
STRIX NEBULOSA GREAT GRAY OWL	G5	S3	P		
AEGOLIUS FUNEREUS BOREAL OWL	G5	S3	P		SENSITIVE
CYPSELDIDES NIGER BLACK SWIFT	G4	S3B, SZN	P		
PICOIDES ARCTICUS BLACK-BACKED WOODPECKER	G5	S3	P		SENSITIVE
TYRANNUS VOCTIFERANS CASSIN'S KINGBIRD	G5	S1S3B, SZN	P		
LANIUS LUDOVICIANUS LOGGERHEAD SHRIKE	G4	S4B, SZN	P	C2	
SPIZA AMERICANA DICKCISSEL	G4	S1S2B, SZN	P		
AMMODRAMUS BAIRDII BAIRD'S SPARROW	G3	S3B, SZN	P	C2	
AMMODRAMUS LECONTEII LE CONTE'S SPARROW	G4?	S1S2B, SZN	P		
MAMMALS					
SOREX PREBLEI PREBLE'S SHREW	G4	S3	NG	C2	
SOREX NANUS DWARF SHREW	G4	S3	NG		
SOREX HERRIANI HERRIAN'S SHREW	G5	S3	NG		

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MYOTIS THYSANODES FRINGED MYOTIS	G5	S3	NG		
MYOTIS SEPTENTRIONALIS NORTHERN MYOTIS	G4	S2	NG		
EUDEMA MACULATUM SPOTTED BAT	G4	S1	NG	C2	SENSITIVE
PLECOTUS TOWNSENDII TOWNSEND'S BIG-EARED BAT	G4	S2	NG		SENSITIVE
ANTROZOUS PALLIDUS PALLID BAT	G5	S1	NG		SENSITIVE
LEPUS CALIFORNICUS BLACK-TAILED JACK RABBIT	G5	S2S3	NG		
BRACHYLAGUS IDAHOENSIS PYGMY RABBIT	G5	S3	NG	C2	
TAMIAS UMBRINUS UINTA CHIPMUNK	G5	S3?	NG		
CYNOMYS LEUCURUS WHITE-TAILED PRAIRIE DOG	G4	S2	NG		SENSITIVE
PEROGNATHUS PARVUS GREAT BASIN POCKET MOUSE	G5	S2S4	NG		
CHAETODIPUS HISPIDUS HISPID POCKET MOUSE	G5	S1	NG		
SYNAPTOMYS BOREALIS NORTHERN BOG LEMMING	G5	S2	NG		SENSITIVE
ZAPUS HUDSONIUS MEADOW JUMPING MOUSE	G5	S3?	NG		
CANIS LUPUS GRAY WOLF	G4	S1	E	LELTNL	ENDANGERED
VULPES VELOX KIT OR SWIFT FOX	G4	SH	FBCS	C2	
URSUS ARCTOS HORRIBILIS GRIZZLY BEAR	G4T3	S1S2	GARH	LTNL	THREATENED
MARTES PENNANTI FISHER	G5	S2	FBRH	NLC2	SENSITIVE
MUSTELA NIGRIPES BLACK-FOOTED FERRET	G1	SH	E	LE	ENDANGERED
GULO GULO WOLVERINE	G4	S3	FBRH	C2NL	SENSITIVE
FELIS LYNX LYNX	G5	S3	FBRH	C2NL	SENSITIVE
RANGIFER TARANDUS CARIBOU WOODLAND CARIBOU	G5TU	SX	GACS	C2LE	ENDANGERED

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INVERTEBRATES					
ZAITZEVIA THERMAE WARM SPRING ZAITZEVAN RIFFLE BEETLE	G1	S1	NONE	C2	
MICROCYLLOEPUS BROWNI BROWN'S MICROCYLLOEPUS RIFFLE BEETLE	G1	S1	NONE	C2	
CAENIS YOUNGI A MAYFLY	G3	S2	NONE		
ISOCAPNIA CRINITA A STONEFLY	GU	S2	NONE		
ISOCAPNIA INTEGRATA A STONEFLY	G2	S2	NONE		
UTACAPNIA COLUMBIANA A STONEFLY	GU	S2	NONE		
LEDNIA TUMANA MELTWATER LEDNIAN STONEFLY	G1	S1	NONE	C2	
ZAPADA CORDILLERA A STONEFLY	GU	S2	NONE		
ZAPADA GLACIER WESTERN GLACIER STONEFLY	G1	S1	NONE		
ISOPERLA PETERSONI A STONEFLY	GU	S2?	NONE		
RHYACOPHILA ALEXANDERI ALEXANDER'S RHYACOPHILAN CADDISFLY	G2	S2	NONE	C2	
RHYACOPHILA EBRIA A CADDISFLY	G1?	S1?	NONE		
RHYACOPHILA NEWELLI A RHYACOPHILAN CADDISFLY	G2?	S2?	NONE		
RHYACOPHILA GLACIERI A RHYACOPHILAN CADDISFLY	G1	S1	NONE		
AGAPETUS MONTANUS AN AGAPETUS CADDISFLY	G2?	S2?	NONE		
OREOHELIX CARINIFERA CARINATE LAND SNAIL	G1	S1	NONE		
OREOHELIX ELRODI ELROD'S SNAIL	G1	S1	NONE		
ACROLOXUS COLORADENSIS ROCKY MOUNTAIN CAPSHELL	G?	S1	NONE	C2	

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