Plant Species of Concern

441 Species of Concern
135 Potential Species of Concern
All Records (no filtering)

Species List Last Updated **12/16/2010**

MONTANA Natural Heritage Program

A program of the University of Montana and Natural Resource Information Systems, Montana State Library

Introduction

The Montana Natural Heritage Program (MTNHP) serves as the state's information source for Species of Concern (SOC) -- plants and animals that are rare, threatened, and/or have declining populations and as a result are at risk or potentially at risk of extirpation in Montana. This report is based on information gathered from field inventories, publications, reports, herbaria specimens, and the knowledge of botanists and other taxonomic experts. Taxa in the SOC category generally include all vascular plant taxa ranked S1, S1S2, S2, S2S3, SH or G3. Nonvascular taxa (bryophytes and lichens) which are not as well documented or studied as vascular plant taxa in the state, are listed as SOC using similar criteria as vascular taxa but are more strictly limited to those taxa which are believed to be the rarest or most vulnerable to extirpation based on current information.

Designation as a Species of Concern is not a statutory or regulatory classification. Instead, these designations provide a basis for resource managers and decision-makers to make proactive decisions regarding species conservation and data collection priorities in order to maintain viable populations and avoid extirpation of species from the state. MTNHP designates additional taxa as Potential Species of Concern (PSOC) which includes many species or subspecies ranked as S3 in the state. Taxa in this designation include species or subspecies which may be rare, have a restricted range in the state or are otherwise vulnerable to extirpation in at least part of their range but otherwise do not meet the criteria for inclusion as a SOC. An additional designation of Status Under Review is used for those taxa for which additional information is needed to accurately assign a status rank or for which conflicting information exists. Taxa designated as Status Under Review are not included in this document but can be found in the on-line **Fieldguide (http://fieldguide.mt.gov/)**.

This web-based report, which replaces the 2006 Plant Species of Concern publication, identifies vascular plant Species of Concern (SOC), bryophyte SOC and lichen SOC in Montana. The MTNHP continuously reviews and updates status ranks as new information and data become available through field surveys, research, and submitted observations. Status ranks and information supporting them are reviewed by botanists and resource specialists. If you wish to comment or contribute information to this process please contact the MTNHP Botanist. The information we receive from botanists and others throughout the state is essential in this process, and contributes to more accurate assessments of species' status. We continue to ask that all observations for SOC, PSOC and Review Status plants be reported to the Heritage Program. A copy of the field survey form specifying the information that should be submitted is available on our **website (http://mtnhp.org/)**.

Information concerning plant species contained on the SOC, PSOC or Review lists may be viewed on the MTNHP's on-line Montana Plant Field Guide. The Field Guide provides information for vascular and non-vascular plants, including species' characteristics, identification, habitat, distribution, state rank reasons and references, as well as technical illustrations and photographs of the plants and their habitats. For each species, a link to the NatureServe website (http://www.natureserve.org/) provides access to information on the status of the species throughout North America, assembled from state and provincial Natural Heritage databases. Information in the Montana Field Guide is continuously updated and expanded, so please check it often for current species' information. If you have questions concerning the field guide or find errors or omissions please contact the MTNHP.

Status lists of SOC plants may be queried on-line by county and/or township; taxonomic group or one of several rank/status criteria. More detailed information or additional assistance can be requested from MTNHP using the Information Request function on our **website**, or by phone, e-mail or mail.

How to Read the Lists

The SOC list is organized alphabetically by scientific name (Genus and specific epithet followed by subspecific epithet if any) within the major groups of Vascular Plants, Bryophytes (Mosses and Liverworts) and Lichens. Vascular plants are further sorted by the subgroups: Ferns and Fern Allies, Gymnosperms (if any), Flowering Plants-Dicots and Flowering Plants-Monocots. The list can also be sorted alphabetically by the common name. Additional scientific names as well as the Family name are included in adjacent columns for each species. The nomenclature and taxonomy for many groups of plants continues to change as new research is conducted and published, and as a result no one nomenclatural reference is followed. Publications and web resources which are most relevant to Montana plants include Vascular Plants of Montana (Dorn 1984), NatureServe Explorer, The USDA PLANTS database, Flora of North America (1993-), Grasses of Montana (Lavin and Seibert 2009) and Flora of the Pacific Northwest (Hitchcock and Cronquist 1973). Additionally, an abundance of scientific literature pertinent to Montana plants is available and indispensable in the process of determining the nomenclature and taxonomic concepts used in this report.

Species that have been added to or deleted from the SOC list due to changes in their global or state rank are reported in separate sections below. These changes are also reflected in the date displayed at the top of the report which shows when an addition or deletion to the list last occurred.

County Distribution

Montana counties of record are listed alphabetically with each species. County records of occurrence are determined directly from mapped species occurrences (SO's) in MTNHP databases. A record of occurrence for a particular county may be based on a historical observation which may no longer be extant. Additionally, some plant observations with vague locality information are not mapped in MTNHP databases and as result would not be included in the county distribution for that particular species.

Heritage Program Ranks

The international network of Natural Heritage Programs employs a standardized ranking system to denote **global** (range-wide) and **state** status (NatureServe 2006). Species are assigned numeric ranks ranging from 1 (highest risk, greatest concern) to 5 (demonstrably secure, least concern), reflecting the relative degree of risk to the species' viability, based upon available information. 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.

A number of factors are considered in assigning state ranks — the number, size and quality of known occurrences or populations, distribution, trends (if known), intrinsic vulnerability, habitat specificity, and definable threats. The process of assigning state ranks for each taxon relies heavily on factors of abundance (# of occurrences, population size and area of occupancy), viability of occurrences, threats to viability and trends in population size. The "State Rank Reason" field in the *Montana Field Guide* provides additional information on the reasons for a particular species' rank. The ranking process being used by MTNHP for plant species relies heavily on NatureServe and Heritage Network methodology presented in Master et al (2009), Faber-Langendoen et al (2009) and previously in Regan, Master and Hammerson (200).

Rank definitions given below reflect some changes in terminology from that used by NatureServe. However, the meaning and criteria for ranks remain unchanged, to maintain consistency with international standards.

Rank		Definition
G1	**S1**	At high risk because of **extremely limited** and/or **rapidly declining** population 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 **potentially declining** population 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**	Apparently secure, though it may be quite rare in parts of its range, and/or suspected to be declining.
G5	**S5**	Common, widespread, and abundant (although it may be rare in parts of its range). Not vulnerable in most of its range.
GX	**SX**	Presumed Extinct or Extirpated - Species is believed to be extinct throughout its range or extirpated in Montana. Not located despite intensive searches of historical sites and other appropriate habitat, and small likelihood that it will ever be rediscovered.
GH	**SH**	Historical, known only from records usually 40 or more years old; may be rediscovered.
GNR	**SNR**	Not Ranked as of yet.
GU	**SU**	Unrankable - Species currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
GNA	**SNA**	A conservation status rank is not applicable for one of the following reasons: 1) The taxa is of Hybrid Origin; is Exotic or Introduced; is Accidental or 2) is Not Confidently Present in the state. (see other codes below)

Combination or Range Ranks

G#G# or **S#S#** Indicates a range of uncertainty about the status of the species.
e.g. G1G3 = Global Rank ranges between G1 and G3 inclusive

Sub-rank

T# Rank of a subspecies or variety. Appended to the global rank of the full species, *e.g. G4T3*

Qualifiers

Q **Questionable** taxonomy that may reduce conservation priority-Distinctiveness of this entity as a taxon at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority (numerically higher) conservation status rank. Appended to the global rank, *e.g. G3Q*

? **Inexact Numeric Rank** - Denotes uncertainty; inexactness.

Federal Status

Designations in these columns reflect the status of a species under the U.S. Endangered Species Act (ESA), or as "sensitive" by the U.S. Forest Service (USFS) or the Bureau of Land Management (BLM).

U.S. Fish and Wildlife Service (Endangered Species Act)

Status, if any of a taxon under the federal Endangered Species Act of 1973 (16 U.S.C.A. § 1531-1543 (Supp. 1996)) is noted. Regulatory aspects of the Endangered Species Act affect plants only when they occur on federal lands or may be affected by federal actions. Currently, 3 plants in Montana have designations under the U.S. Endangered Species Act.

Designation Descriptions

LE	**Listed endangered:** Any species in danger of extinction throughout all or a significant portion of its range (16 U.S.C. 1532(6)).
LT	**Listed threatened:** Any species likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range (16 U.S.C. 1532(20)).
PE	**Proposed endangered:** Any species for which a proposed rule to list the species as endangered has been published in the Federal Register.
PT	**Proposed threatened:** Any species for which a proposed rule to list the species as threatened has been published in the Federal Register.
E(S/A) or **T(S/A)**	Any species listed endangered or threatened because of similarity of appearance.
C	**Candidate:** Those taxa for which sufficient information on biological status and threats exists to propose to list them as threatened or endangered. We encourage their consideration in environmental planning and partnerships; however, none of the substantive or procedural provisions of the Act apply to candidate species.
PDL	**Proposed for delisting** - Typically combined with another designation code, where a species has one status currently, but a more recent proposal has been made to change that status with no final action yet published. For example, "**LE, PDL**" indicates that the species is currently listed as endangered, but has been proposed for delisting.
DM	**Recovered, delisted, and being monitored** - Any previously listed species that is now recovered, has been delisted, and is being monitored.

Bureau of Land Management

BLM Sensitive Species are defined by the BLM 6840 Manual as those that normally occur on Bureau administered lands for which BLM has the capability to significantly affect the conservation status of the species through management. The State Director may designate additional categories of special status species as appropriate and applicable to his or her state's needs. The sensitive species designation, for species other than federally listed, proposed, or candidate species, may include such native species as those that:

1. could become endangered in or extirpated from a state, or within a significant portion of its distribution in the foreseeable future,
2. are under status review by FWS and/or NMFS,
3. are undergoing significant current or predicted downward trends in habitat capability that would reduce a species' existing distribution,
4. are undergoing significant current or predicted downward trends in population or density such that federally listed, proposed, candidate, or State listed status may become necessary,
5. have typically small and widely dispersed populations,
6. are inhabiting ecological refugia, specialized or unique habitats, or
7. are State listed but which may be better conserved through application of BLM sensitive species status. Such species should be managed to the level of protection required by State laws or under the BLM policy for candidate species, whichever would provide better opportunity for its conservation.

Designation Descriptions

Sensitive	Denotes species listed as sensitive on BLM lands
Special Status	Denotes species that are listed as Endangered or Threatened under the Endangered Species Act

U.S. Forest Service

U.S. Forest Service Manual (2670.22) defines Sensitive Species on Forest Service lands as those for which population viability is a concern as evidenced by a significant downward trend in population or a significant downward trend in habitat capacity. The Regional Forester (Northern Region) designates Sensitive species on National Forests in Montana. These designations were last updated in 2007 and they apply only on USFS-administered lands.

Designation Descriptions

Endangered	Listed as Endangered (LE) under the U.S. Endangered Species Act.
Threatened	Listed as Threatened (LT) under the U.S. Endangered Species Act.
Sensitive	Listed as a Sensitive Species by USFS Northern Region (R1).

Acknowledgements

We would like to gratefully acknowledge the many people who contributed information on plant species' occurrences and distribution throughout Montana over the years -- those contributions are the building blocks of the MTNHP databases and this publication. We encourage you to continue submitting data for SOC, PSOC and Under Review taxa so that status ranks and this document are as accurate and comprehensive as possible.

Selected References

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- USDA, NRCS. *The PLANTS Database* (**http://plants.usda.gov**). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

Contact Information

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Species of Concern
441 Species
All Records (no filtering)

FERNS AND FERN ALLIES (PTERIDOPHYTA)

26 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Asplenium trichomanes Maidenhair Spleenwort		**Aspleniaceae** Spleenwort Family	G5	SH					Rock/Talus
			Species verified in these Counties: Flathead **State Rank Reason:** Known from one 1895 collection with imprecise location data near "Columbia Falls" in Flathead County.						
Botrychium adnatum Adnate Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G1?	S1					Grasslands (Fescue)
			Species verified in these Counties: Flathead **State Rank Reason:** A recently described species currently known only from northwest Montana.						
Botrychium ascendens Upward-lobed Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G2G3	S1S2		SENSITIVE		2	Various Mesic Sites
			Species verified in these Counties: Flathead, Glacier, Lake, Lewis and Clark, Lincoln, Sweet Grass **State Rank Reason:** This moonwort species is restricted in Montana to the northwest corner of the state where it is known from 19 extant occurrences, almost all on federally-managed lands. Most occurrences are small in size and occupy roadsides or other similarly open or disturbed habitats. As such, it is vulnerable to activities such as weed invasion, weed spraying and road maintenance. Threats: Low-Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: High						
Botrychium campestre Prairie Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G3G4	S1				0	Various Mesic Sites
			Species verified in these Counties: Flathead, Glacier, Lincoln **State Rank Reason:** Reported from a very small number of sites in Montana. All occurrences are small with the largest population count at a single site being approximately 2 dozen plants. All known sites are in northwest Montana.						
Botrychium crenulatum Wavy Moonwort	**Botrychium dusenii**	**Ophioglossaceae** Adder's-Tongue / Moonworts	G3	S2S3		SENSITIVE		2	Various Mesic Sites
			Species verified in these Counties: Flathead, Glacier, Granite, Lake, Lincoln, Missoula, Sanders **State Rank Reason:** This moonwort species is known in western Montana from over 40 extant occurrences. Most populations are located on either National Forest or State lands. Populations are generally small in size and occupy roadsides or other similarly open or disturbed habitats. As such, it is vulnerable to activities such as weed invasion, weed spraying and road maintenance. Threats: Low-Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: High						
Botrychium gallicomontanum Frenchman's Bluff Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G1G2	S1					Grasslands (Fescue)
			Species verified in these Counties: Flathead **State Rank Reason:** A globally rare species, recently documented in Montana from Glacier National Park						
Botrychium hesperium Western Moonwort	**Botrychium matricariifolium, Botrychium michiganense [in part]**	**Ophioglossaceae** Adder's-Tongue / Moonworts	G3G4	S2S3		SENSITIVE		2	Various Mesic Sites
			Species verified in these Counties: Deer Lodge, Flathead, Glacier, Lincoln, Sweet Grass **State Rank Reason:** This moonwort species is known from 25-30 extant sites in western Montana, almost all are in Glacier National Park or on National Forest lands. Many sites are poorly documented in terms of population size or are small in size, though several sites have been observed with >100 plants. Many populations occur on roadsides or other similarly open or disturbed habitats. As such, the species is vulnerable to activities such as weed invasion, weed spraying and road maintenance.						
Botrychium lineare Linearleaf Moonwort	Slender Moonwort	**Ophioglossaceae** Adder's-Tongue / Moonworts	G2?	S1				0	Various Mesic Sites
			Species verified in these Counties: Glacier, Lake, Lincoln **State Rank Reason:** This moonwort species is known to occur in western Montana from 6 locations, 5 of which are on federally-managed lands and the remaining site is located in a tribal wilderness area. However, occurrences are generally small in size and occupy roadsides or other similarly open or disturbed habitats. As such, it is vulnerable to activities such as weed invasion, weed spraying and road maintenance. Threats: Low-Moderate Short- and Long-Term Trends: Unknown						

			Intrinsic Vulnerability: High					
Botrychium michiganense Michigan Moonwort	**Botrychium hesperium s.l.**	**Ophioglossaceae** Adder's-Tongue / Moonworts	G1	S1				Various Mesic Sites
			Species verified in these Counties: Flathead, Glacier, Lincoln **State Rank Reason:** This taxa has recently been split from B. hesperium. Some of the sites for B. hesperium almost certainly belong here. See B. hesperium for additional information on habitat and characteristics which are very similar.					
Botrychium montanum Mountain Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G3	S3				Forests (Mesic bottmlands)/Open sites
			Species verified in these Counties: Flathead, Glacier, Lake, Lincoln, Missoula, Sanders **State Rank Reason:** Over 50 localities have been documented from five counties in northwestern Montana as of 2003, and the species is likely undercollected due to its small stature. Populations are often small and most have been found in old growth Western Red Cedar forest, though some have been documented from second growth forests. Populations occur on a mix of federal, state and private ownerships. Montana supports a significant percentage of the species range-wide populations. Threats: Low? Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: High?					
Botrychium pallidum Pale Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G3	S1			2	Grasslands (Fescue)
			Species verified in these Counties: Flathead, Lincoln **State Rank Reason:** Reported from a very small number of sites in Montana. All occurrences are small with the largest population count at a single site being approximately 30 plants. All known sites are in northwest Montana.					
Botrychium paradoxum Peculiar Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G2	S2		SENSITIVE	SENSITIVE	2	Meadows (Mesic Montane/Subalpine)
			Species verified in these Counties: Deer Lodge, Flathead, Glacier, Granite, Jefferson, Lincoln, Pondera, Powell, Sweet Grass, Teton **State Rank Reason:** This moonwort species is known to occur in western Montana from over two dozen extant occurrences, almost all of which are on federally-managed lands. Many occurrences are small in size and occupy mesic meadows and bunchgrass communities. Potential impacts to the these sites include livestock grazing, weed invasion and recreational uses. Though some threats exist to individual occurrences, the species as a whole is not highly threatened by any single or combination of potential impacts in the state. As such, more thorough and increased observation data may eventually show that an S3 rank is more appropriate for the species.					
Botrychium pedunculosum Stalked Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G2G3	S1S2		SENSITIVE		3	Forests (Mesic bottmlands)/Open sites
			Species verified in these Counties: Flathead, Granite, Lincoln, Sanders **State Rank Reason:** This moonwort species is known to occur in western Montana from approximately a dozen extant occurrences, almost all of which are on National Forest lands. Many occurrences are small in size and occupy western redcedar forests and roadsides or other similarly open or disturbed habitats. Several site records are based specimen collections with no available population data; almost all other sites have population counts with <10 plants observed. One site has been observed with 125 plants. Sites could be impacted by timber harvesting or road-related activities.					
Botrychium spathulatum Spoon-leaf Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G3	S1				Forests (Mesic bottmlands)/Open sites
			Species verified in these Counties: Glacier, Lake **State Rank Reason:** One of the rarest moonwort species in Montana, currently reported from 2 sites in northwest Montana. Population levels at these sites are undocumented.					
Botrychium tunux Moosewort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G1G2	S1				
			Species verified in these Counties: **State Rank Reason:** A globally rare species, recently documented in Montana from Glacier National Park.					
Botrychium yaaxudakeit Yakutat Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G2	S1				Open sites (mesic)
			Species verified in these Counties: Glacier **State Rank Reason:** A globally rare species, recently documented in Montana from Glacier National Park.					
Cystopteris montana Mountain Bladder Fern		**Dryopteridaceae** Wood Fern Family	G5	SH				Rock/talus
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Reported for Montana from one collection in 1932 near Gunsight Pass in Glacier National Park.					
Dryopteris cristata Crested Shieldfern		**Dryopteridaceae** Wood Fern Family	G5	S2		SENSITIVE		3	Wetland/Riparian
			Species verified in these Counties: Flathead, Lake, Lincoln, Missoula, Ravalli **State Rank Reason:** Rare to uncommon in Montana where it is known from scattered occurrences across the western portion of the state. Most documented occurrences are on National Forest lands, though State Trust Lands and private lands also host significant populations.					

Lycopodium dendroideum Treelike Clubmoss	**Lycopodium obscurum var. dendroideum**	**Lycopodiaceae** Club-moss (Lycopod) Family	G5	S1		SENSITIVE		3	Forests (Mesic valley and montane)
			Species verified in these Counties: Flathead, Glacier, Lincoln **State Rank Reason:** Rare in Montana where the species has been documented from only a few sites in the northwest corner of the state.						
Lycopodium inundatum Northern Bog Clubmoss	**Lycopodiella inundata**	**Lycopodiaceae** Club-moss (Lycopod) Family	G5	S1		SENSITIVE		3	Fens
			Species verified in these Counties: Flathead, Missoula **State Rank Reason:** Rare in Montana where it is known from only a few occurrences in the western portion of the state.						
Lycopodium lagopus Running-pine	**Lycopodium clavatum var. lagopus**	**Lycopodiaceae** Club-moss (Lycopod) Family	G5	S1		SENSITIVE		3	Alpine
			Species verified in these Counties: Flathead, Glacier, Lincoln **State Rank Reason:** Rare in Montana. Currently known from two occurrences in the northwest portion of the state.						
Ophioglossum pusillum Adder's Tongue	**Ophioglossum vulgatum [misapplied]**	**Ophioglossaceae** Adder's-Tongue / Moonworts	G5	S2		SENSITIVE		3	Fens, Wet meadows
			Species verified in these Counties: Flathead, Lake, Lincoln, Missoula **State Rank Reason:** Rare in Montana, where it is known from a couple dozen fens and wet meadows in the northwest corner of the state. Its viability in the state generally does not appear to be at risk from any human-caused impacts at this time.						
Phegopteris connectilis Northern Beechfern	**Thelypteris phegopteris**	**Thelypteridaceae** Beechfern-Marsh Fern Family	G5	S2		SENSITIVE		2	Forests (Mesic valley to subalpine)
			Species verified in these Counties: Flathead, Glacier, Lincoln, Sanders **State Rank Reason:** Rare in Montana where it is known from the extreme northwest corner of the state, east to Glacier National Park. Timber harvesting, invasive weeds (Orange and Meadow Hawkweeds) and proposed mining activity all have the potential to detrimentally impact the species.						
Polystichum kruckebergii Kruckeberg's Swordfern		**Dryopteridaceae** Wood Fern Family	G4	S1					Alpine
			Species verified in these Counties: Deer Lodge, Flathead, Gallatin, Lake **State Rank Reason:** Sparsely distributed across western Montana on alpine and subalpine cliffs and talus slopes. Very little data is available for the locations in Montana, though the habitats occupied by the species are not generally impacted by human activities or disturbance.						
Polystichum scopulinum Mountain Holly-fern		**Dryopteridaceae** Wood Fern Family	G5	S1					Rock Crevices
			Species verified in these Counties: Ravalli, Sanders **State Rank Reason:** Only two known locations from western Montana. Very little data are available for the known occurrences.						
Selaginella selaginoides Low Spike-moss		**Selaginellaceae** Spike-mosses	G5	S2				3	Wet, mossy soil (montane/subalpine)
			Species verified in these Counties: Beaverhead, Deer Lodge, Granite, Madison **State Rank Reason:** Rare in Montana, where it is known from a few occurrences from the southwest portion of the state. Little survey data are available for known occurrences.						

FLOWERING PLANTS - DICOTS (MAGNOLIOPSIDA)

246 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Adoxa moschatellina Musk-root		**Adoxaceae** Moschatel Family	G5	S2		SENSITIVE			Rock/Talus
			Species verified in these Counties: Carbon, Granite, Jefferson, Madison, Meagher, Park, Stillwater **State Rank Reason:** Sparsely distributed across sw Montana. Populations are generally small, though they occur in habitats not generally impacted by human disturbance or invasive weeds. Building of roads and trails may potentially impact populations.						
Agastache cusickii Cusick's Horsemint		**Lamiaceae** Mints	G3G4	S1		SENSITIVE	SENSITIVE		Rock/Talus
			Species verified in these Counties: Beaverhead **State Rank Reason:** This species is known in Montana from only a few locations in the Tendoy and Beaverhead Mountains. The steeply sloping habitat and relative remoteness of most populations minimizes its vulnerability to grazing and timber harvest -- the principle current land uses. However, these slopes can be vulnerable to destabilization if impacted by activities such as mining or road maintenance; the largest occurrence is in an area that is quarried for rock/gravel.						
Alnus rubra Red Alder		**Betulaceae** Birch / Alder	G5	S1				3	Forest (Mesic)
			Species verified in these Counties: Lincoln, Sanders **State Rank Reason:** Rare in Montana, where it occurs only in the extreme western portion of the state. The species is at the eastern end of its range in the state.						

Ammannia robusta Scarlet Ammannia	**Ammannia coccinea ssp. robusta**	**Lythraceae** Loosestrife Family	G5	S1					Wetland/Riparian
			Species verified in these Counties: Phillips, Valley **State Rank Reason:** Known from 1 extant population in Roosevelt County and 3 historical collections in northeastern Montana.						
Amorpha canescens Lead Plant		**Fabaceae** Pea Family	G5	SH					Prairie
			Species verified in these Counties: Carter, Rosebud **State Rank Reason:** Known from three historical collections from southeast Montana.						
Antennaria densifolia Dense-leaved Pussytoes		**Asteraceae** Aster / Sunflowers	G3	S1		SENSITIVE			Alpine
			Species verified in these Counties: Deer Lodge, Granite **State Rank Reason:** Known from one high elevation site in the Anaconda-Pintler Wilderness on the border of Deerlodge and Granite counties. The single occurrence is in a designated wilderness, which should protect it from most human-caused disturbance. However, it is susceptible to trail-building and maintenance activities. Threats: Low Trends: Unknown						
Aquilegia brevistyla Short-styled Columbine		**Ranunculaceae** Buttercup Family	G5	S2		SENSITIVE			Forest (Mesic)
			Species verified in these Counties: Judith Basin, Sweet Grass **State Rank Reason:** Known in Montana from the Little Belt Mountains of central Montana. Several populations are known. However, Information on potential threats and trends are limited.						
Aquilegia formosa Sitka Columbine		**Ranunculaceae** Buttercup Family	G5	S1S2			SENSITIVE		Forest (Mesic)
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** Known from eight occurrences in southwest Montana. However, only four of these are large, high quality populations. Effects of human disturbance, such as logging, on the species are uncertain. Threats: Probably Low Trends: Unknown						
Arabidopsis lyrata Lyre-leaf Rockcress	**Arabis lyrata, Arabis kamchatica**	**Brassicaceae** Mustards	G5	SH					NA
			Species verified in these Counties: Flathead **State Rank Reason:** Known from one 1952 collection near Mount Brown in Glacier National Park.						
Arctostaphylos patula Green-leaf Manzanita	**Arctostaphylos x media**	**Ericaceae** Heath Family	G4	S1				1	Forest (Montane)
			Species verified in these Counties: Lake, Ravalli, Sanders **State Rank Reason:** Known from two or three seperate locations in Montana. Population sizes are very small and are susceptible to the negative effects associated with such. Additional negative impacts from timber harvesting, invasive weeds and development are possible. Primarily a species of the Great Basin and California, and disjunct in Montana. Not known from either Idaho or Wyoming. Threats: High? Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Asclepias incarnata Swamp Milkweed		**Asclepiadaceae** Milkweeds	G5	S1					Wetland/Riparian
			Species verified in these Counties: Carbon **State Rank Reason:** Known in Montana from only 2 extant sites in Carbon County.						
Asclepias ovalifolia Ovalleaf Milkweed		**Asclepiadaceae** Milkweeds	G5?	S1		SENSITIVE			Prairie
			Species verified in these Counties: Carter, Sheridan **State Rank Reason:** Known in the state from two occurrences in extreme eastern Montana.						
Asclepias stenophylla Narrowleaf Milkweed		**Asclepiadaceae** Milkweeds	G4G5	S1			SENSITIVE		Sandy sites
			Species verified in these Counties: Carter, Rosebud **State Rank Reason:** In Montana, *Asclepias stenophylla* is known from only a few occurrences in two southeastern counties. So far, surveys in Montana have documented a total population that numbers only several hundred plants. Threats: Not Assessed Short- and Long-Term Trends: Unknown						
Astragalus aretioides Sweetwater Milkvetch	**Astragalus sericoleucus var. aretioides**	**Fabaceae** Pea Family	G4	S1			SENSITIVE	3	Exposed ridges and slopes
			Species verified in these Counties: Big Horn, Carbon **State Rank Reason:** Sweetwater milkvetch is a regional endemic known in Montana only from exposed ridges and outcrops in the						

			Pryor Mountains / Bighorn Canyon area.						
Astragalus barrii Barr's Milkvetch		**Fabaceae** Pea Family	G3	S3		SENSITIVE	SENSITIVE	2	Sparsely vegetated knobs and buttes
			Species verified in these Counties: Big Horn, Carter, Powder River, Rosebud **State Rank Reason:** Barr's Milkvetch is endemic to southwestern South Dakota, northeastern Wyoming, Nebraska and southeastern Montana. In Montana, it is known from over three dozen occurrences, many of these are large, expansive populations. The habitat occupied by this species is not typically suitable for grazing, and the location of its habitat makes it less vulnerable to all but large-scale developments. Proposed resource extraction in southeast Montana may eventually impact the species. Invasive weeds have the potential to be a threat but currently are not posing problems to the species.						
Astragalus ceramicus var. apus Painted Milkvetch		**Fabaceae** Pea Family	G4T3	S1			SENSITIVE	2	Sandy sites
			Species verified in these Counties: Beaverhead **State Rank Reason:** Painted milkvetch is known only from the upper Snake River Plains of southeast Idaho and adjacent Montana, where it is restricted to the Centennial Valley of Beaverhead County. The disruption of natural disturbance regimes, including fire, ungulate grazing and pocket gopher activity, can lead to dune stabilization, reducing the extent of blowout areas with early successional vegetation, upon which this species depends. Portions of its habitat lie on private or public lands without sensitive species management policies in place. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Astragalus convallarius Lesser Rushy Milkvetch		**Fabaceae** Pea Family	G5	S2			SENSITIVE	2	Grasslands (Intermountain)
			Species verified in these Counties: Beaverhead, Broadwater, Jefferson, Lewis and Clark **State Rank Reason:** The distribution of *A. convallarius* in Montana is limited to two disjuct localities in the state: the Helena Valley vicinity and an area in extreme southwest Montana in Beaverhead County. The species is being negatively impacted by development in the Helena area, and past development in the Helena Valley probably eliminated areas of previously occupied habitat resulting in the more fragmented distribution seen today. The grassland habitats this species occupies are also being invaded by several noxious weeds, partcularly in the Helena vicinity. Several large occurrences are presently known and some areas of potentially suitable habitat remain unsurveyed. Threats: Moderate Long-Term Trends: Probable Moderate Decline Short-Term trends: Stable Intrinsic Vulnerability: Low-Moderate						
Astragalus geyeri Geyer's Milkvetch		**Fabaceae** Pea Family	G4	S2			SENSITIVE	3	Sandy sites
			Species verified in these Counties: Carbon, Garfield **State Rank Reason:** Geyer's milkvetch has a very limited distribution in Montana with less than 10 extant occurrences almost all of which are in Carbon County. Size of the population in Montana is estimated to be in the thousands, but occupied habitat has been estimated at less than 20 acres due to its narrow ecological requirements. Invasive weeds may negatively affect this species over the long-term. Approximately half the populations occur entirely or partially on federally managed lands. Threats: Low-Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Astragalus grayi Gray's Milkvetch		**Fabaceae** Pea Family	G4?	S1S2			SENSITIVE		Sagebrush-Grassland
			Species verified in these Counties: Carbon **State Rank Reason:** Rare in the state. Locally restricted to Carbon County and possibly Big Horn County.						
Astragalus lackschewitzii Lackschewitz' Milkvetch		**Fabaceae** Pea Family	G2G3	S2S3		SENSITIVE		3	Alpine
			Species verified in these Counties: Teton **State Rank Reason:** Montana endemic restricted to high elevation, gravelly and rocky slopes and ridges. Several of the known occurrences are in designated wilderness and the habitats occupied by the species are not generally subject to human disturbance.						
Astragalus oreganus Wind River Milkvetch		**Fabaceae** Pea Family	G4?	S1			SENSITIVE	1	Sandy sites/Sagebrush-Grassland
			Species verified in these Counties: Carbon **State Rank Reason:** Wind River milkvetch is a regional endemic known in Montana only from southern Carbon County. Although populations are large, there are few known occurrences in the state.						
Astragalus racemosus		**Fabaceae** Pea Family	G5	S2				3	Grasslands (Clay soils)
			Species verified in these Counties: Carter, Fallon						

Raceme Milkvetch			**State Rank Reason:** Raceme milkvetch occurs near the margin of its range in Montana, where several, mostly small populations have been found in Carter and Fallon counties. Its response to grazing is unknown, however it accumulates selenium and may be toxic to livestock.					
Astragalus scaphoides Bitterroot Milkvetch		**Fabaceae** Pea Family	G3	S3		SENSITIVE	SENSITIVE	3	Sagebrush-grassland
			Species verified in these Counties: Beaverhead **State Rank Reason:** Bitterroot milkvetch occurs only in Lemhi County, Idaho and Beaverhead County, Montana. In Montana, the documented occurrences are confined to an area from the Grasshopper Creek drainage south to the Tendoy Mountains. The total number of individual plants has been estimated in the tens of thousands, but occupied habitatis likely less than 700 acres.					
Astragalus terminalis Railhead Milkvetch		**Fabaceae** Pea Family	G3	S2S3			SENSITIVE	3	Sagebrush steppe
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** *Astragalus terminalus* is a regional endemic known from southwest Montana, east-central Idaho and northwest Wyoming. In Montana it is documented from Beaverhead County and the Upper Madison River Valley. The species appears to be vulnerable to intensive grazing and competition from noxious weeds, at least in low-elevation areas.					
Athysanus pusillus Sandweed		**Brassicaceae** Mustards	G4	S1		SENSITIVE		1	Rock/talus-Mesic
			Species verified in these Counties: Ravalli **State Rank Reason:** Known in Montana from a limited area of the Bitterroot Mountains. Only three occurrences have a large number of indivuals and several occurrences have populations of spotted knapweed and/or cheatgrass established. Invasive weeds may threaten the long-term viability of the species in Montana. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Low-Moderate					
Atriplex truncata Wedge-leaved Saltbush		**Chenopodiaceae** Goosefoot Family	G5	S1				3	Wetland/Riparian
			Species verified in these Counties: Beaverhead, Deer Lodge, Jefferson, Lake, Lewis and Clark, Park **State Rank Reason:** Known from two extent occurrences; one in the Centennial Valley and the other near Warm Springs. Also, known historically from four collections in the western half of the state.					
Bacopa rotundifolia Roundleaf Water-hyssop		**Scrophulariaceae** Figwort Family	G5	S1				3	Wetland/Riparian
			Species verified in these Counties: Cascade, Fergus, Garfield, Phillips **State Rank Reason:** A rare species known in Montana from only a few observations in the central and eastern portions of the state.					
Balsamorhiza hookeri Hooker's Balsamroot		**Asteraceae** Aster / Sunflowers	G5	S1				3	Sagebrush-grassland
			Species verified in these Counties: Beaverhead, Deer Lodge **State Rank Reason:** Known in Montana only from the vicinity of Monida and within the Mount Haggin WMA.					
Balsamorhiza macrophylla Large-leaved Balsamroot		**Asteraceae** Aster / Sunflowers	G3G5	S2S3		SENSITIVE	SENSITIVE	3	Sagebrush-grassland
			Species verified in these Counties: Beaverhead, Gallatin, Madison **State Rank Reason:** This species occurs in Montana at the edge of its range where it is known from three southwestern Montana mountain ranges. Most of the known populations are moderate to large in size and in generally good-quality habitat. One occurrence in Gallatin County is only known from a 1931 collection. Invasive weeds are not a problem at sites occupied by *B. macrophylla* and livestock grazing at some of the sites does not appear to be negatively impacting the species.					
Bidens beckii Beck Water-marigold	**Megalodonta beckii**	**Asteraceae** Aster / Sunflowers	G4G5	S2		SENSITIVE		3	Aquatic
			Species verified in these Counties: Flathead, Lake, Lincoln, Missoula **State Rank Reason:** Known from ten occurrences in the western valleys of the state, including 6 moderate to large populations and one historical occurrence from Salmon Lake dating to 1937. However, the species may be more abundant in the state than what current data suggests. Threats and impacts to populations in Montana include boating activity, lake shore development, aquatic weeds and use of aquatic herbicides. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Not Assessed					
Boechera demissa Daggett Rockcress	**Arabis demissa**	**Brassicaceae** Mustards	G5	S1			SENSITIVE	3	Open woodland and sagebrush steppe
			Species verified in these Counties: Carbon **State Rank Reason:** Daggett rockcress is at the northern edge of its range in Montana, where it is known only from the vicinity of the Pryor Mountains and adjacent Bighorn Canyon. Detailed survey information for most occurrences is lacking.					
Boechera fecunda Sapphire Rockcress	**Arabis fecunda**	**Brassicaceae** Mustards	G2	S2		SENSITIVE	SENSITIVE	1	Rocky, calcareous, montane slopes
			Species verified in these Counties: Beaverhead, Ravalli, Silver Bow **State Rank Reason:** Sapphire rockcress is a state endemic known from several locations in southwest Montana where it is restricted to					

			specific and localized habitats. Encroachment of spotted knapweed threatens several populations, particularly in Ravalli County. It is unclear whether grazing has significant negative impacts					
Brasenia schreberi Watershield		**Cabombaceae** Watershields	G5	S1S2		SENSITIVE		0	Aquatic
			Species verified in these Counties: Flathead, Lake, Lincoln, Missoula **State Rank Reason:** Restricted in Montana to shallow waters in the valleys of the northwest corner of the state where it is known from eight occurrences, including six relatively high quality populations. Potential threats to the species include boating activity, aquatic weeds, and several populations are subject to runoff from adjacent agricultural fields, though it is uncertain if this has negatively impacted any populations. Threats: Low-Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Not Assessed					
Braya humilis Low Braya		**Brassicaceae** Mustards	G5	S1			SENSITIVE	2	Alpine
			Species verified in these Counties: Beaverhead **State Rank Reason:** Known from only two occurrences in the state, including one site in which only one plant was observed. The second population occurs in an area with historical mining activity. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate					
Brickellia oblongifolia Mojave brickellbush		**Asteraceae** Aster / Sunflowers	G5	S1			SENSITIVE	1	Rock/Talus
			Species verified in these Counties: Park, Silver Bow **State Rank Reason:** Few collections known for Montana. Only known extant occurrences are all near Melrose. The current status of one historical occurrence near Wilsall is unknown. Invasive weeds do not apear to be a threat at this time and the rocky, sparsely-vegetated slopes that the species occupies are not generally subject to human impacts. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Low					
Camissonia andina Obscure Evening-primrose	**Oenothera andina**	**Onagraceae** Evening-primrose Family	G4	S1			SENSITIVE	3	Sandy sites
			Species verified in these Counties: Carbon, Missoula **State Rank Reason:** This species is at the edge of its range in Montana, where it has been documented from just a few locations. All known extant locations are from Carbon County. These populations collectively cover less than 20 acres, but they can vary greatly in size from year to year. It tolerates grazing well, and moderate grazing may be important in maintaining a suitable seedbed of exposed soil. Invasive weeds may pose the greatest risk. Threats: Low-Moderate Short- and Long-Term Trends: Unknown, Not Assessed Intrinsic Vulnerability: Moderate					
Camissonia parvula Small Camissonia	**Oenothera parvula**	**Onagraceae** Evening-primrose Family	G5	S1			SENSITIVE	3	Sandy sites
			Species verified in these Counties: Carbon **State Rank Reason:** *Camissonia parvula* is currently known from one extant location in Montana on the southern edge of the Pryor Mountains in Carbon County. Populations are thought to be small, but may vary widely from year to year. As an annual plant, it may tolerate - or even respond positively to - moderate levels of disturbance. Threats: Low-Moderate Short- and Long-Term Trends: Unknown, Not Assessed Intrinsic Vulnerability: Moderate					
Cardamine oligosperma var. kamtschatica Few-seeded Bittercress		**Brassicaceae** Mustards	G5T3T5	S1				3	Alpine
			Species verified in these Counties: Flathead **State Rank Reason:** Only known from 1 collection in Montana.					
Cardamine rupicola Cliff Toothwort		**Brassicaceae** Mustards	G3	S3				3	Alpine
			Species verified in these Counties: Flathead, Lake, Lewis and Clark, Missoula, Powell **State Rank Reason:** State endemic known from 3 population clusters. These are in the Mission Mtns, Swan Range and the Rocky Mtn Front Range. Many occurrences have not been surveyed for 30 or more years and many are based on a single herbarium specimen. However, the species grows at high elevations in rock and scree fields that generally are not subject to disturbance or other threats.					

			Many populations also occur in designated wilderness areas which offer further protection. Additional occurrences likely exist across the known range of the species.					
Castilleja cervina Deer Indian Paintbrush		**Scrophulariaceae** Figwort Family	G4	SH				Wetland/Riparian
			Species verified in these Counties: Flathead, Missoula, Powell **State Rank Reason:** Known from 3 widely separated collections in western Montana, including a 1901 collection in Missoula County near "Sunset Hill", a 1960 collection near Deer Lodge and an 1894 collection near columbia Falls. Threats: NA Trends: NA					
Castilleja covilleana Coville Indian Paintbrush		**Scrophulariaceae** Figwort Family	G3G4	S2S3		SENSITIVE	2	Subalpine slopes
			Species verified in these Counties: Ravalli **State Rank Reason:** This species is known in Montana, primarily from the West Fork of the Bitterroot River on the Bitterroot National Forest. 5 occurrences are known from historical collections or have unknown status. A few occurrences contain minor amounts of spotted knapweed and others occur in habitats that are susceptible to invasion by knapweed and other exotic plants. Timber harvest activities may also pose a threat to some populations.					
Castilleja crista-galli Greater Red Indian Paintbrush		**Scrophulariaceae** Figwort Family	G4?	S2S3				Meadows/Grasslands (Montane/Subalpine)
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** An uncommon species in Montana, where it is known from mountainous areas of the southwest and south-central portions of the state. May be more common than currently documented and may be able to be dropped from SOC status.					
Castilleja exilis Annual Indian Paintbrush	**Castilleja minor ssp. minor**	**Scrophulariaceae** Figwort Family	G5	S2			SENSITIVE	2	Wetland/Riparian
			Species verified in these Counties: Broadwater, Deer Lodge, Gallatin, Jefferson, Madison, Park **State Rank Reason:** Annual Indian Paintbrush is known from a half dozen counties in southwest Montana with the majority of documented locations on private lands. Many areas of suitable habitat have been converted to agricultural uses and/or are used for livestock grazing. Additionally, populations are susceptible to hydrologic changes and may negatively impacted by invasive weeds. Threats: Moderate Short- and Long-Term Trends: Unknown, Not Assessed Intrinsic Vulnerability: Moderate					
Castilleja gracillima Slender Indian Paintbrush	**Castilleja miniata ssp. miniata**	**Scrophulariaceae** Figwort Family	G3G4Q	S2				Wetland/Riparian
			Species verified in these Counties: Gallatin, Madison, Park **State Rank Reason:** This plant is a regional endemic, known in Montana from a limited number of populations, with most being relatively small. No threats have been observed, though it could be vulnerable to hydrologic alterations or noxious weeds.					
Castilleja nivea Snow Indian Paintbrush		**Scrophulariaceae** Figwort Family	G3	S2				Alpine
			Species verified in these Counties: Beaverhead, Carbon, Madison, Park **State Rank Reason:** Currently known from a few collections from the Beartooths, Crazy Mtns, Tobacco Root Mtns and the Centennial Range. It is very likely that additional occurrences exist in the known mountain ranges as well as additional mountain ranges. Additionally, the high elevation habitat generally limits the potential for impacts to the species.					
Ceanothus herbaceus New Jersey Tea		**Rhamnaceae** Buckthorn Family	G5	SH				Forests (Dry. Open)
			Species verified in these Counties: Powder River **State Rank Reason:** Known from one 1948 specimen collection with imprecise location data in Powder River County that noted a "few" plants. Subsequent surveys have not been able to relocate this species.					
Celastrus scandens Bittersweet		**Celastraceae** Bittersweet Family	G5	S1				Wetland/Riparian
			Species verified in these Counties: **State Rank Reason:** Rare in Montana, where it is currently known from only 1 collection from the eastern portion of the state..					
Centaurium exaltatum Western Centaury		**Gentianaceae** Gentians	G5	SH				Wetland/Riparian
			Species verified in these Counties: **State Rank Reason:** Known from one 1890 collection with imprecise location data from Big Horn County, "seven miles south of Custer Station".					
Centunculus minimus Chaffweed	**Anagallis minima**	**Primulaceae** Primrose Family	G5	S2				Wetland/Riparian
			Species verified in these Counties: Lake, Missoula, Phillips, Powell, Ravalli, Sheridan, Valley **State Rank Reason:** Known from scattered locations across the state, though it is rare to uncommon in Montana. May be susceptible to some adverse impacts from human-caused disturbance due to its preference for vernally moist habitats in valley loctions.					
Cercocarpus		**Rosaceae**	G5	S1S2			3	Open, stony slopes

montanus Alderleaf mountain-mahogany		Rose Family	**Species verified in these Counties:** Treasure **State Rank Reason:** This widespread western species is only known in the state from one area of Treasure County where it is reported to be fairly extensive.					
Chenopodium subglabrum Smooth Goosefoot	**Chenopodium leptophyllum var. subglabrum**	**Chenopodiaceae** Goosefoot Family	G3G4	S1				0	Sandy sites
			Species verified in these Counties: Carter, Cascade, Custer, Powder River, Sheridan **State Rank Reason:** Smooth goosefoot is known from just a few locations in Montana, one of which may be extirpated. It occupies an early-succession habitat that is vulnerable to loss of natural disturbance regimes such as fire and flooding. Invasion of exotic plants may also pose a threat.					
Cirsium brevistylum Short-styled Thistle		**Asteraceae** Aster / Sunflowers	G4	S1S2					Meadows and disturbed forests
			Species verified in these Counties: Flathead, Mineral, Missoula, Sanders **State Rank Reason:** Rare in Montana, where it is currently known from only the northwest portion of the state. The species may benefit from some natural and human-caused disturbances such as fire and timber harvesting, resulting in some uncertaintly as to its conservation status in the state.					
Cirsium longistylum Long-styled Thistle		**Asteraceae** Aster / Sunflowers	G3	S3				1	Meadows (Montane-subalpine)
			Species verified in these Counties: Broadwater, Cascade, Fergus, Judith Basin, Lewis and Clark, Meagher, Wheatland **State Rank Reason:** Population estimates of approximately 30,000 plants, including seven high quality populations, scattered over four mountain ranges are promising for the long-term viability of the species. Habitat in the largest populations is generally of high quality with few if any problem weeds posing significant and immediate threats. In the near future, little change in habitat quality is expected in these populations. Sites are mostly on National Forest lands that provide a degree of protection and two large populations on private lands that have a history of light to moderate grazing appear stable. Also of benefit at this time is the active weed control program employed by the private landowners on their lands. Long- and short-term population trends are difficult to gauge due to the lack of good survey data over many years. However, available data and observations provide some evidence that population levels have at least remained fairly stable over the past decade, with significant yearly fluctuations possible. Threats posed by invasive weeds and the introduced bio-control agent do provide reason for concern.					
Cirsium pulcherrimum Wyoming Thistle		**Asteraceae** Aster / Sunflowers	G5	S1					Sparsely-vegetated soils
			Species verified in these Counties: Powder River **State Rank Reason:** Known conclusively in Montana from one badlands area of Powder River County with a small number of scattered indivuals observed in 2006. Also, reported for Dawson and Garfield Counties by Flora of the Great Plains. Short- and Long-Term Trends: Unknown Threats: Not Assessed Intrinsic Vulnerability: Low					
Clarkia rhomboidea Diamond Clarkia		**Onagraceae** Evening-primrose Family	G5	S2		SENSITIVE		2	Forests (Open, montane)
			Species verified in these Counties: Lincoln, Ravalli, Sanders **State Rank Reason:** Rare in Montana, where it is known from only a small portion of the northwest corner of the state, primarily along the lower Clark Fork River drainage. Some detrimental impacts from invasive weeds and subsequent herbicide treatments are possible as are loss of habitat due to fire suppression.					
Claytonia arenicola Sand Springbeauty	**Montia arenicola**	**Portulacaceae** Purslane Family	G4	S1		SENSITIVE		3	Mesic, rocky slopes
			Species verified in these Counties: Sanders **State Rank Reason:** Rare in Montana, where it is currently known from only 1 localized area in the western portion of the state.					
Cleome lutea Yellow Beeplant		**Capparaceae** Caper Family	G5	S1			SENSITIVE	3	Sagebrush-grassland (Low-elevation)
			Species verified in these Counties: Big Horn, Carbon **State Rank Reason:** Rare in Montana, where it is currently known from only a small area in the south-central portion of the state.					
Collomia debilis var. camporum Flexible Collomia		**Polemoniaceae** Phlox Family	G5T2	S1					Rock/Talus (Valleys to Montane)
			Species verified in these Counties: Missoula, Ravalli **State Rank Reason:** Only known from a couple of sites in western Montana from low elevation scree, talus or rocky slopes which are susceptible to disturbance and weed invasion. Current status of the documented locations is unknown.					
Collomia tinctoria Yellow-staining Collomia		**Polemoniaceae** Phlox Family	G5	S1					Grasslands/Rocky slopes (Valleys to Montane)
			Species verified in these Counties:					
Corydalis		**Fumariaceae**	G4G5	S2		SENSITIVE		0	Forests/Meadows

sempervirens Pale Corydalis		Fumary family						(Recently-burned)
			Species verified in these Counties: Flathead, Glacier, Lincoln, Powell **State Rank Reason:** Known to occur in northwest Montana from approximately a dozen recently (past 25 years) documented occurrences. Another 5 historical occurrences are also known. This species occurs in disturbed habitats, predominantly burned forests and it depends heavily on historical fire regimes to maintain populations. Thus, the main threat to this species' viability appears to be from fire suppression activities. Invasive weeds also threaten habitat occupied by the species. Threats: Low-Moderate Long-Term Trends: Likely Decline Short-Term trends: Stable, though fluctuates widely Intrinsic Vulnerability: Low-Moderate						
Cryptantha fendleri Fendler Cat's-eye		**Boraginaceae** Borage Family	G4	S2			SENSITIVE	2	Sandy sites
			Species verified in these Counties: Beaverhead, Sheridan **State Rank Reason:** Fendler cat's-eye is restricted to very localized sandhills habitat in the far southwestern and northeastern corners of Montana where it is known from a total of three moderate to large-sized populations. It responds positively to disturbance that maintains its sparsely vegetated habitat. Fire suppression and dune stabilization efforts have likely had an adverse effect on populations of this species. Threats: Low Short- and Long-Term Trends: Unknown, though widely fluctuating Intrinsic Vulnerability: Low						
Cryptantha humilis Round-headed Cryptantha		**Boraginaceae** Borage Family	G4?	SH					Sagebrush Steppe (low-elevation)
			Species verified in these Counties: Beaverhead **State Rank Reason:** Known from 3 historical collections in the state, including a 1955 collection west of Dillon in the Grasshopper Valley, a 1952 collection 3 miles south of Lima and an undated collection from the Yellowstone Valley in Park County. Threats: NA Trends: NA						
Cryptantha scoparia Miner's Candle		**Boraginaceae** Borage Family	G4?	S1			SENSITIVE	3	Sagebrush Steppe (low-elevation)
			Species verified in these Counties: Carbon **State Rank Reason:** This species is documented from a single area in Carbon County, where it is widely disjunct from the nearest known occurrences in southwest Wyoming and central Idaho. In 1991 about 1,000 plants were reported occupying less than one acre. The habitat is subject to grazing, and may be affected by exotic weed encroachment.						
Dalea enneandra Nine-anther prairie clover		**Fabaceae** Pea Family	G5	S1				3	Grasslands (Plains)
			Species verified in these Counties: Big Horn, Custer, Fallon, Richland **State Rank Reason:** In Montana, known from a few poorly documented occurrences in the eastern half of the state.						
Dalea villosa Silky prairie clover	**Petalostemon villosus**	**Fabaceae** Pea Family	G5	S1					Sandy sites
			Species verified in these Counties: Carter, Richland, Sheridan **State Rank Reason:** In Montana, known from very few, small occurrences in the extreme eastern portion of the state.						
Delphinium burkei Meadow Larkspur	**[including] Delphinium distichum**	**Ranunculaceae** Buttercup Family	G4	S1S2					Meadows (Moist, low-elevation)
			Species verified in these Counties: Beaverhead, Flathead **State Rank Reason:** Only known from a few collections from the western half of the state.						
Douglasia conservatorum Bloom Peak Douglasia		**Primulaceae** Primrose Family	GNR	S1					Ridges (Open, subalpine)
			Species verified in these Counties: Sanders **State Rank Reason:** Described as a new species in 2010 from a single location along the Idaho/Montana border. The population of this newly described species is apparently closely allied to *Douglasia idahoensis*, *D. laevigata* and *D. nivalis* (Bjork 2010). Additional research may be needed to determine if this population warrants recognition at the specific level or if it should be treated as conspecific with *D. idahoensis* or *D. nivalis*. However, the discovery of this population is significant in that it is a new addition to the state flora no matter if it is treated as a distinct species or as a population of one of the previously mentioned species.						
Downingia laeta Great Basin Downingia		**Campanulaceae** Bellflower Family	G5	S1				3	Wetland/Riparian (Shallow water ponds, lakes)
			Species verified in these Counties: Beaverhead, Lewis and Clark, Teton **State Rank Reason:** Rare in Montana, where it is currently known from a few scattered sites in the western half of the state.						
Draba crassa Thick-leaf Whitlow-grass		**Brassicaceae** Mustards	G3	S2S3				3	Alpine
			Species verified in these Counties: Beaverhead, Deer Lodge, Granite, Madison, Park						

			State Rank Reason: Scattered across southwest Montana where it is known from alpine slopes in several mountain ranges. Overall abundance and distribution is still poorly known, though it is likely to be more common than collections indicate.					
Draba daviesiae Bitterroot Draba	**Draba apiculata var. daviesiae**	**Brassicaceae** Mustards	G3	S3			3	Alpine
			Species verified in these Counties: Ravalli **State Rank Reason:** A Montana endemic, known from several occurrences in alpine areas of the Bitterroot Mountains. Overall abundance and distribution are still poorly known though the high elevation habitat would likely limit most potential impacts.					
Draba densifolia Dense-leaf Draba		**Brassicaceae** Mustards	G5	S2			2	Alpine
			Species verified in these Counties: Beaverhead, Flathead, Glacier, Jefferson, Lewis and Clark, Park, Pondera, Powell, Silver Bow, Sweet Grass **State Rank Reason:** *Draba densifolia* is distributed in the western half of the state in four moderate to large populations, six small occurrences and nine historical or poorly documented occurrences. Occupied habitats are at moderate to high elevation which help to minimize disturbance to some of the populations. However, livestock grazing, invasive weeds and off-road ATV use impact some populations.					
Draba fladnizensis White Arctic Draba		**Brassicaceae** Mustards	G4	S1				Alpine
			Species verified in these Counties: Deer Lodge, Madison, Stillwater **State Rank Reason:** Rare in Montana, where it is currently known from a few scattered alpine locations in the southern half of the state.					
Draba globosa Round-fruited Draba	**Draba apiculata**	**Brassicaceae** Mustards	G3	S1			SENSITIVE	Alpine
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** Round-fruited draba is a regional endemic, known from widely separated sites in Colorado, northeastern Utah, northwest Wyoming and adjacent Montana. It has been found in three southwest Montana mountain ranges, and the very few documented populations are quite small. However, its high-elevation habitat is relatively inaccessible, and there are no obvious threats.					
Draba macounii Macoun's Draba		**Brassicaceae** Mustards	G3G4	S1			3	Alpine
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Known in Montana from only a few occurrences in Glacier National Park.					
Draba porsildii Porsild's Draba		**Brassicaceae** Mustards	G3G4	S1			3	Alpine
			Species verified in these Counties: Carbon, Madison **State Rank Reason:** Only known in Montana from a few collections on the Beartooth Plateau and the Madison Range.					
Draba ventosa Wind River Draba		**Brassicaceae** Mustards	G3	S1			SENSITIVE	3	Alpine
			Species verified in these Counties: Madison **State Rank Reason:** Draba ventosa is known from one site in the Madison Range and has been reported from a second site in the Snowcrest Range. The high elevation habitat is not threatened by anthropogenic disturbance and the Madison Range site is in a designated wilderness area.					
Drosera anglica English Sundew		**Droseraceae** Sundew Family	G5	S2S3		SENSITIVE		2	Fens
			Species verified in these Counties: Flathead, Granite, Lake, Lewis and Clark, Lincoln, Madison, Missoula, Park, Powell, Ravalli, Sanders **State Rank Reason:** Known from over two dozen populations in the state, most of these are moderate to large-sized, healthy populations. Most occurrences are on federally managed lands with several of these in designated wilderness areas, research natural areas or Glacier National Park which help to protect the occurrences from many potential threats. However, one population is vulnerable to ski area expansion and activity, and the species may be negatively impacted by fire as observations at one location appear to indicate. Plants are also sensitive to and negatively impacted by trampling of peat mats on which the species grow. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate to High					
Drosera linearis Linear-leaved Sundew		**Droseraceae** Sundew Family	G4	S1		SENSITIVE		3	Fens
			Species verified in these Counties: Flathead, Lewis and Clark, Powell **State Rank Reason:** Only known from four populations in Montana though all are moderate to large-sized occurrences that are located in either the Bob Marshall Wilderness or Indian Meadows Research Natural Area which afford all known populations some protection from disturbance. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate to High					
Dryas integrifolia Entire-leaved Avens		**Rosaceae** Rose Family	G5	S1			0	Alpine
			Species verified in these Counties: Fergus, Golden Valley **State Rank Reason:** Extant sites are known in Montana from the Big Snowy Research Natural Area and from one specimen collection					

			apparently from the Tobacco Root Mountains. The alpine habitat occupied by this species and the fact that the primary location is in a Research Natural Area reduces the risk of disturbance to the species in the state. However, impacts from recreational use of the area is possible. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Epilobium densiflorum Dense Spike-primrose	**Boisduvalia densiflora**	**Onagraceae** Evening-primrose Family	G5	SH					Wetland/Riparian
			Species verified in these Counties: Sanders **State Rank Reason:** Known from one historical collection in Sanders County from 1938.						
Ericameria discoidea var. discoidea Whitestem goldenbush	**Haplopappus macronema var. macronema**	**Asteraceae** Aster / Sunflowers	G4G5T4	S1		SENSITIVE		3	Rock/Talus
			Species verified in these Counties: Beaverhead, Gallatin **State Rank Reason:** This variety is extremely restricted in Montana, with the only recent verified record from one location in the Pioneer Mountains. The population is quite remote and there are no known threats at present.						
Ericameria nana Dwarf Goldenweed	**Haplopappus nanus**	**Asteraceae** Aster / Sunflowers	G5	SH					Rock/Talus
			Species verified in these Counties: **State Rank Reason:** Known from one 1952 collection south of Upper Red Rock Lake.						
Ericameria parryi var. montana Parry's Mountain Rabbitbrush	**Chrysothamnus parryi ssp. montanus**	**Asteraceae** Aster / Sunflowers	G5T1	S1				3	Grasslands (subalpine)
			Species verified in these Counties: Beaverhead **State Rank Reason:** A globally rare endemic, restricted to a small area of southwest Montana and adjacent Idaho.						
Erigeron allocotus Big Horn Fleabane		**Asteraceae** Aster / Sunflowers	G3	S3				3	Rock outcrops/Ridges (low-elevation)
			Species verified in these Counties: Big Horn, Carbon **State Rank Reason:** A regional endemic of Montana and Wyoming. In Montana, it is known only from the Pryor Mountain Desert - Bighorn Basin area of Carbon and Big Horn Counties. The species can be common in areas where it is found.						
Erigeron asperugineus Idaho Fleabane		**Asteraceae** Aster / Sunflowers	G4	S1		SENSITIVE	SENSITIVE	3	Alpine
			Species verified in these Counties: Beaverhead, Madison, Ravalli **State Rank Reason:** Idaho fleabane is a regional endemic that has been documented from very few locations in Montana, nearly half from collections prior to 1970. It grows in alpine habitats, which tend to be relatively isolated from anthropogenic disturbance.						
Erigeron eatonii Eaton's Fleabane		**Asteraceae** Aster / Sunflowers	G5	S1					Sagbrush/Woodlands (Open, Montane)
			Species verified in these Counties: Sweet Grass						
Erigeron evermannii Evermann Fleabane		**Asteraceae** Aster / Sunflowers	G4	S1		SENSITIVE			Alpine
			Species verified in these Counties: Ravalli **State Rank Reason:** Rare in Montana, where it is currently known from a few alpine sites in the Bitterroot Mountains.						
Erigeron flabellifolius Fan-leaved Fleabane		**Asteraceae** Aster / Sunflowers	G3	S3				3	Alpine
			Species verified in these Counties: Carbon, Park, Sweet Grass **State Rank Reason:** Restricted to rocky, alpine habitats in the mountains of south-central Montana. Though uncommon and restricted in distribution, the high elevation habitat tends to reduce the potential for any impacts to the species						
Erigeron formosissimus Beautiful Fleabane		**Asteraceae** Aster / Sunflowers	G5	S1					Meadows (Montane/subalpine)
			Species verified in these Counties: Madison, Park						
Erigeron lackschewitzii Lackschewitz' Fleabane		**Asteraceae** Aster / Sunflowers	G3	S3		SENSITIVE		3	Alpine
			Species verified in these Counties: Flathead, Glacier, Granite, Lewis and Clark, Pondera, Powell, Teton **State Rank Reason:** Endemic to Montana and adjacent Alberta though the large majority of the species' range is in Montana. Though many of the individual occurrences are small in size, the species is distributed over a relatively wide area along the Rocky Mtn Front south to the Flint Creek Range. The high elevation habitat reduces the potential for detrimental impacts.						
Erigeron leiomerus Smooth Fleabane		**Asteraceae** Aster / Sunflowers	G4	S1				3	Alpine
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** Rare in Montana, where it is currently known from only a couple of alpine sites in the southwest portion of the state.						
Erigeron linearis Linear-leaf Fleabane		**Asteraceae** Aster / Sunflowers	G5	S1			SENSITIVE	2	Sagebrush/Grasslands (Foothills to Montane)
			Species verified in these Counties: Beaverhead, Lewis and Clark, Missoula, Park, Ravalli, Silver Bow **State Rank Reason:** *Erigeron linearis* is a peripheral species known from a few small and moderate-sized, localized occurrences.						

			Almost all populations are on federally-managed lands or lands under conservation easement. Two historical locations are also known. The occupied habitats are susceptible to invasion by several noxious weeds. Development on adjacent lands may fragment suitable habitat.					
Erigeron parryi Parry's Fleabane		**Asteraceae** Aster / Sunflowers	G2G3	S2S3			SENSITIVE	3	Slopes and ridges (Open, Montane)
			Species verified in these Counties: Beaverhead, Jefferson, Madison **State Rank Reason:** *Erigeron parryi* was first described over 100 years ago based on a single collection made by Frank Tweedy along Grasshopper Creek in Beaverhead County, Montana. Over 50 years ago Arthur Cronquist recognized *E. parryi* in his monograph on the genus *Erigeron* (Cronquist 1947). He stated that the species was similar to *E. ochroleucus*, but the hair of leaves and stems was strikingly different. He hinted that *E. parryi* might be better considered a variety of *E. ochroleucus*, but since there was still only one collection, he did not formally propose a new nomenclatural combination. Eight years later Cronquist merged *E. parryi* into *E. ochroleucus*, stating that it was a rare form with spreading-hairy herbage (Cronquist 1955). Since that time several additional populations of *E. parryi* have been located in southwest Montana. Though the species is restricted to southwest Montana, it is locally common at many of the sites it occupies. Additionally, threats to the species appear to be low as a result of the rocky, sparsely vegetated habitat it prefers.					
Erigeron tener Slender Fleabane		**Asteraceae** Aster / Sunflowers	G4	S1				3	Slopes (Open, limestone, montane)
			Species verified in these Counties: Beaverhead **State Rank Reason:** Rare in Montana, where it is currently known from a single locality in the southwest corner of the state.					
Eriogonum caespitosum Mat Buckwheat		**Polygonaceae** Buckwheat Family	G5	S1			SENSITIVE	3	Sagebrush steppe (Montane)
			Species verified in these Counties: Beaverhead **State Rank Reason:** Rare in Montana, where it is has been documented from a few sites, primarily from Beaverhead County.					
Eriogonum capistratum var. muhlickii Muhlick's Buckwheat	**Eriogonum crosbyae, Eriogonum chrysops [misapplied]**	**Polygonaceae** Buckwheat Family	G4T3	S3					Alpine
			Species verified in these Counties: Deer Lodge, Granite, Ravalli **State Rank Reason:** Rare to Uncommon. This entity is restricted to high elevation sites in the Bitterroot Range and in the Anaconda-Pintlers, where it may be locally common in some areas. Good population data are lacking for most occurrences, though it's long-term viability does not appear to be a major concern at this time due, in part, to the remoteness of its habitat.					
Eriogonum salsuginosum Smooth Buckwheat	**Stenogonum salsuginosum**	**Polygonaceae** Buckwheat Family	G4?	S1			SENSITIVE	2	Clay Barrens
			Species verified in these Counties: Carbon **State Rank Reason:** This species is on the northern margin of its range in south-central Montana, where it has been documented from only two small areas on the south side of the Pryor Mountains. There is active bentonite mining in the immediate vicinity.					
Eriogonum soliceps Railroad Canyon Wild Buckwheat		**Polygonaceae** Buckwheat Family	G2	S2			SENSITIVE	3	Ridges/slopes (Open, Montane)
			Species verified in these Counties: Beaverhead, Deer Lodge **State Rank Reason:** Railroad canyon wild buckwheat is a newly described species (Reveal and Bjork, in press 2004) that is confirmed extant at only two locations, one in southern Beaverhead County, Montana and the other in adjacent Lemhi County, Idaho. Herbarium specimens also exist from about 10 other localities in southwest Montana. It does not appear to be strongly impacted by cattle grazing, but its habitat would be vulnerable to off-road vehicles.					
Eriogonum visheri Visher's Buckwheat		**Polygonaceae** Buckwheat Family	G3	S1			SENSITIVE	3	Clay Barrens
			Species verified in these Counties: Carter **State Rank Reason:** *Eriogonum visheri* is a regional endemic known in Montana since 1997 from only one area in Carter County. This population grows on sparsley vegetated alluvial outwash in badlands topography and as such does not appear to be threatened by weeds, livestock or other activities at this time.					
Eupatorium maculatum Spotted Joepye-weed	**Eupatoriadelphus maculatus**	**Asteraceae** Aster / Sunflowers	G5	S1S2				0	Wetland/Riparian
			Species verified in these Counties: Big Horn, Carbon **State Rank Reason:** Widespread species known in Montana from a few occurrences in the south-central part of the state on a variety of ownerships. Four of the occurrences are moderate to large-sized populations. Threats: Unknown, Not Assessed Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Low?					
Eupatorium occidentale Western Joepye-weed	**Ageratina occidentalis** Western Boneset	**Asteraceae** Aster / Sunflowers	G4	S2		SENSITIVE	SENSITIVE		Rock/Talus
			Species verified in these Counties: Beaverhead, Mineral, Ravalli **State Rank Reason:** This peripheral species in Montana is known from a handful of small to large populations in the extreme western part of the state. Minor impacts associated with a rock quarry at one location and rock climbing at another site are possible. Otherwise, few threats have been documented for the species in Montana.					

			Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Low?					
Euphrasia subarctica Arctic Eyebright	**Euphrasia arctica var. disjuncta, Euphrasia disjuncta [misapplied]**	**Scrophulariaceae** Figwort Family	G5	S1			3	Alpine
			Species verified in these Counties: Glacier **State Rank Reason:** In Montana, only known from three locations in Glacier National Park, including one historical collection from 1897. Some plants in at least one population are subject to trampling by hikers. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate?					
Gentiana glauca Glaucous Gentian		**Gentianaceae** Gentians	G4G5	S1			3	Alpine
			Species verified in these Counties: Flathead **State Rank Reason:** Rare in Montana, where it is has been documented only from Glacier National Park.					
Gentianopsis macounii Macoun's Gentian	**Gentiana macounii, Gentianella crinita ssp. macounii, Gentianopsis procera ssp. macounii, Gentiana detonsa**	**Gentianaceae** Gentians	G5	S1		SENSITIVE	2	Fens
			Species verified in these Counties: Glacier, Teton **State Rank Reason:** Rare in Montana, where it is known from several sites just east of the Continental Divide.					
Gentianopsis simplex Hiker's Gentian	**Gentiana simplex, Gentianella simplex**	**Gentianaceae** Gentians	G5	S1		SENSITIVE	SENSITIVE	3	Fens, wet meadows, seeps
			Species verified in these Counties: Beaverhead, Carbon, Missoula **State Rank Reason:** Rare in Montana, where it is known from several widely scattered locations					
Githopsis specularioides Common Blue-cup	**Githopsis calycina**	**Campanulaceae** Bellflower Family	G5	S1			3	Cliffs
			Species verified in these Counties: Sanders **State Rank Reason:** This plant is known from only one location in Montana -- more than 150 miles disjunct from the nearest documented populations in eastern Washington. The Montana population is small, however its cliff habitat is not thought to be particularly vulnerable.					
Glossopetalon spinescens Spiny Greasebush	**Glossopetalon nevadense**	**Crossosomataceae** Greasebush	G5	S1		SENSITIVE		1	Rock/Talus
			Species verified in these Counties: Ravalli **State Rank Reason:** A peripheral species in Montana where it is only known from one small occurrence on the Bitterroot National Forest. Population is vulnerable to human impacts as it occurs adjacent to a road. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate					
Gratiola ebracteata Bractless Hedge-hyssop		**Scrophulariaceae** Figwort Family	G4	S1			3	Wetland/Riparian
			Species verified in these Counties: Flathead, Glacier, Teton **State Rank Reason:** Rare and peripheral in Montana. Currently known from approximately a half-dozen wetlands along the Rocky Mtn Front.					
Grayia spinosa Spiny Hopsage		**Chenopodiaceae** Goosefoot Family	G5	S2			0	Shrublands (Dry)
			Species verified in these Counties: Big Horn, Carbon, Park **State Rank Reason:** *Grayia spinosa* is located in Montana primarily in the Pryor Mountain Desert with a couple additional records from southwest Montana. In the Pryor Mounatin area, it is known from less than a dozen, generally small ocurrences. The total population of the species in the state likely numbers less than 2,000 individuals. As the plant is highly palatable, negative impacts associated with heavy grazing are possible. Cheatgrass invasion may also pose a threat to the species by reducing seedling establishment and increasing fire frequency.					
Grindelia howellii Howell's Gumweed		**Asteraceae** Aster / Sunflowers	G3	S2S3		SENSITIVE	SENSITIVE	1	Vernally moist sites (Open, Low-elevation)
			Species verified in these Counties: Missoula, Powell **State Rank Reason:** In Montana, *Grindelia howellii* is known from over 100 mapped occurrences. However, most populations are small and many occur on roadsides or other similarly disturbed habitat. This habitat preference in conjunction with the short-lived nature of the species means occurrences may drift from place to place or from year to year and as a result many occurrences may be ephemeral. These attributes make determination of population numbers as well as the number of extant populations at any given time difficult to assess. Invasive weeds are a threat to many occurrences, as the habitat occupied by *G. howellii* is also favorable for many weedy species. Application of herbicides to control these weeds, especially along roadsides may also have a direct, negative impact.					

Gymnosteris parvula Small-flower Gymnosteris		**Polemoniaceae** Phlox Family	G4	S1				3	Grasslands/Sagebrush steppe
			Species verified in these Counties: Beaverhead **State Rank Reason:** Known in Montana from one 1932 collection near West Yellowstone and one recent collection from Beaverhead County.						
Halimolobos perplexa Puzzling Rockcress	**Sandbergia perplexa**	**Brassicaceae** Mustards	G4	S1				2	Shrubland/woodland slopes (Open, Montane)
			Species verified in these Counties: Ravalli **State Rank Reason:** Rare in Montana, where it is known only from the very southern end of the Bitterroot Valley on the Bitterroot National Forest. Spotted knapweed is known from at least one of the populations and further spread of invasive weeds at the known occurrences is likely without control measures.						
Heterocodon rariflorum Western Pearl-flower		**Campanulaceae** Bellflower Family	G5	S2		SENSITIVE		2	Vernally moist habitats
			Species verified in these Counties: Lincoln, Ravalli, Sanders **State Rank Reason:** Over a dozen known occurrences, including a half-dozen moderate to large-sized populations, a few small populations and several occurrences that need further survey work to document population sizes. Most populations are on National Forest lands. Invasive weeds infest several populations and are likely infest others. Hiking and ORV trails occur though or adjacent to a few populations and associated use may impact *H. rariflorum* plants.						
Hornungia procumbens Hutchinsia	**Hutchinsia procumbens**	**Brassicaceae** Mustards	G5	S1			SENSITIVE	3	Sagebrush Steppe
			Species verified in these Counties: Beaverhead, Carbon, Flathead, Powell **State Rank Reason:** Rare in Montana. Currently known from approximately a half-dozen occurrences scattered across the mountainous portion of the state.						
Howellia aquatilis Water Howellia		**Campanulaceae** Bellflower Family	G3	S2	LT	THREATENED		2	Aquatic
			Species verified in these Counties: Lake, Missoula **State Rank Reason:** Water howellia is restricted in Montana to depressional wetlands in the Swan Valley, typically occupying small basins where the water level recedes partially or completely by the Fall. Montana contains the largest number of occupied ponds and wetlands though population numbers are generally small and the occupied habitat is clustered in a very small portion of the state, making it vulnerable to localized events and management actions. Reed canary grass (*Phalaris arundinacea*) has invaded into some wetlands in the Swan Valley and it has the potential to form dense monocultures, thereby decreasing the amount of available habitat. Additionally, water howellia is an annual species which is solely dependent on recruitment from seed and it has very narrow habitat and moisture requirements which leaves it vulnerable to extirpation as a result of consecutive years of unfavorable growing conditions.						
Idahoa scapigera Scalepod		**Brassicaceae** Mustards	G5	S1		SENSITIVE		1	Vernally moist, rock ledges
			Species verified in these Counties: Flathead, Ravalli **State Rank Reason:** Rare and peripheral in Montana. Currently known from approximately a half-dozen sites in western Montana, mostly along the lower slopes of the Bitterroot Mountains.						
Ipomoea leptophylla Bush morning-glory		**Convolvulaceae** Morning-glory Family	G3G5	S1S2					Prairie
			Species verified in these Counties: Big Horn, Rosebud, Treasure, Yellowstone **State Rank Reason:** Known in Montana from only a few collections in the southeastern part of the state, only 1 of these collections was in the last 2 decades. This is a very conspicuous, attractive species, so it is probably not undercollected.						
Ipomopsis congesta ssp. crebrifolia Ballhead Gilia	**Gilia congesta var. crebrifolia**	**Polemoniaceae** Phlox Family	G5T3T4	S1			SENSITIVE	3	Sagebrush Steppe
			Species verified in these Counties: Beaverhead **State Rank Reason:** Rare and peripheral in Montana. Currently known from only a small geographic area encompassing parts of the Centennial Mountains to the Monida Pass area in southwest Montana.						
Ipomopsis minutiflora Small-flower Standing-cypress	**Gilia minutiflora**	**Polemoniaceae** Phlox Family	G4	S1					Sagebrush Open)
			Species verified in these Counties: Ravalli **State Rank Reason:** Rare and peripheral in Montana. Currently documented in the state from one collection from the Bitterroot Valley.						
Kelloggia galioides Kelloggia		**Rubiaceae** Bedstraws / Madder Family	G5	SH					Forest (Open/low-elevation)
			Species verified in these Counties: Mineral **State Rank Reason:** Known in Montana from one 1971 collection in the South Fork Fish Creek valley approximately 12 miles west-northwest of Alberton and a 0.5 mile north of the junction with Deer Creek.						
Kochia americana Red Sage	**Bassia americana**	**Chenopodiaceae** Goosefoot Family	G5	S1			SENSITIVE	2	Saline/Alkaline Sites
			Species verified in these Counties: Beaverhead **State Rank Reason:** The species is at the periphery of its range in Beaverhead County where it is known from one large extant population on BLM and private lands, two historical locations and two other locations that need additional survey work. Agricultural conversion has significantly reduced available habitat. Additional impacts to *K. americana* from agriculture, grazing and/or invasive weeds are possible.						

			Threats: Moderate Short-Term Trends: Unknown Long-Term Trends: Moderate Decline? Intrinsic Vulnerability: Not Assessed					
Koenigia islandica Island Koenigia		**Polygonaceae** Buckwheat Family	G4	S1				3	Alpine
			Species verified in these Counties: Carbon **State Rank Reason:** Rare in Montana, where it is only known from several, high elevation sites on the Beartooth Plateau.					
Lagophylla ramosissima Slender Hareleaf		**Asteraceae** Aster / Sunflowers	G5	S1				2	Grasslands (Dry/Valley)
			Species verified in these Counties: Sanders **State Rank Reason:** Species is poorly documented in Montana where it is known from three occurrences in close proximity to each other. More survey work for the species is needed to determine sizes of existing populations at a minimum. Invasive weeds occur at or near existing sites, though impacts of invasive weeds on *L. ramosissima* are unknown. Threats: Low? Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Low					
Lathyrus bijugatus Latah Tule Pea		**Fabaceae** Pea Family	G4	S1		SENSITIVE			Forest (Open/Valley)
			Species verified in these Counties: Flathead, Lincoln **State Rank Reason:** Rare and peripheral in Montana. Currently documented from three, widely scattered sites in the valleys-lower mountains of northwest Montana.					
Leptodactylon caespitosum Leptodactylon		**Polemoniaceae** Phlox Family	G4	S2			SENSITIVE	3	Sandy Breaks/Outcrops
			Species verified in these Counties: Carbon **State Rank Reason:** This plant occurs in Montana at the edge of a broad but patchy range. It is known from only a dozen or so mostly small populations, all in the Pryor Mountains - Bighorn Canyon area, and is confined to a very specific substrate. The habitat of this plant receives little human disturbance and there are no evident threats.					
Lewisia columbiana Columbia Lewisia		**Portulacaceae** Purslane Family	G4	S1				3	Rock Crevices
			Species verified in these Counties: Ravalli **State Rank Reason:** Rare and peripheral in Montana, where it is known from only one location in the Bitterroot Mountains.					
Lobelia spicata Pale-spiked Lobelia		**Campanulaceae** Bellflower Family	G5	S1			SENSITIVE		Moist meadows
			Species verified in these Counties: Dawson, Richland, Sheridan **State Rank Reason:** Rare and peripheral in Montana, where it is known from a few locations in the northeast corner of the state.					
Lomatium attenuatum Taper-tip Desert-parsley		**Apiaceae** Parsley / Carrot Family	G3	S2			SENSITIVE	3	Slopes and Scree (Dry)
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** *Lomatium attenuatum* is restricted to northwest Wyoming and southwest Montana, with most of its range in Montana. It is known from several locations in Beaverhead and Madison counties. Some populations may be vulnerable to impacts from mining activities and noxious weed invasion.					
Lomatium geyeri Geyer's Biscuitroot		**Apiaceae** Parsley / Carrot Family	G4	S2		SENSITIVE		0	Rocky sites (Mesic)
			Species verified in these Counties: Lincoln **State Rank Reason:** Geyer's biscuitroot occurs in northwest Montana in less than a dozen occurrences, including several large, extensive populations. Encroachment of invasive weeds from nearby infestations into habitat occupied by the species is the primary concern. Threats: Moderate Short- and Long-Term trends: Unknown Intrinsic Vulnerability: Moderate					
Lomatium nuttallii Nuttall Desert-parsley		**Apiaceae** Parsley / Carrot Family	G3	S1			SENSITIVE	2	Rocky, pine woodlands
			Species verified in these Counties: Big Horn, Rosebud **State Rank Reason:** The few populations of Nuttall's desert-parsley in the upper Tongue River drainage of Montana are disjunct from the main range of the species in southeastern Wyoming and adjacent Nebraska and Colorado. Its position on mid and lower slopes along drainages and that some occupied habiata occurs on private land may make its habitat vulnerable to development activities. Potential future coal and/or coalbed methane development could eventually impact the species. Weeds are not currently a problem at any of the known sites. Threats: Low-Moderate Short- and Long-term Trends: Unknown Intrinsic Vulnerability: Moderate					
Lomatogonium		**Gentianaceae**	G5	S1			SENSITIVE	2	Wetland/Riparian

rotatum Marsh Felwort		Gentians	**Species verified in these Counties:** Beaverhead **State Rank Reason:** Only two known occurrences in Montana on BLM and private lands, including one moderate-sized population. Livestock grazing occurs in the occupied habitat, though it is unclear what effect it may have on L. rotatum. Changes in the hydrology, particularly lowering of the water table may adversely affect populations.					
Malacothrix torreyi Desert Dandelion		**Asteraceae** Aster / Sunflowers	G4	S1			SENSITIVE	3	Open slopes (low-elevation)
			Species verified in these Counties: Carbon **State Rank Reason:** Desert dandelion is limited in Montana to a few localized sites on the south side of the Pryor Mountains. Impacts of grazing are unknown, but it may respond positively to moderate levels of disturbance.					
Mentzelia nuda Bractless blazingstar		**Loasaceae** Blazingstar / Stickleaf Family	G5	S1			SENSITIVE		Open areas (sandy or gravelly solis)
			Species verified in these Counties: Custer, Powder River, Roosevelt, Rosebud, Valley **State Rank Reason:** Rare and peripheral in Montana, where it is known from a few locations in the eastern half of the state.					
Mentzelia pumila Dwarf mentzelia		**Loasaceae** Blazingstar / Stickleaf Family	G4	S2			SENSITIVE	3	Shrublands (Dry, sandy soils)
			Species verified in these Counties: Carbon **State Rank Reason:** Rare in Montana, where it is known only from sandy sites within the Bighorn Basin area.					
Mertensia bella Oregon Bluebells		**Boraginaceae** Borage Family	G4	S1		SENSITIVE		2	Vernally moist soil (Montane)
			Species verified in these Counties: Missoula **State Rank Reason:** Only three occurrences in Montana, all on the Lolo National Forest. Some disturbance may be beneficial or at least tolerated, as all three populations are found at least partially in clearcuts. Mining activity occurs near one site though it is unknown if this has had any impact on *M. bella*. Additional monitoring of the populations is needed. Threats: Low Short- and Long-term trends: Unknown Intrinsic Vulnerability: Not Assessed					
Mimulus ampliatus Stalk-leaved Monkeyflower	**Mimulus patulus, Mimulus washingtonensis**	**Scrophulariaceae** Figwort Family	G4	S1		SENSITIVE			Vernally moist soil (Valleys to subalpine)
			Species verified in these Counties: Flathead, Glacier, Lincoln, Missoula, Ravalli, Sanders					
Mimulus breviflorus Short-flowered Monkeyflower		**Scrophulariaceae** Figwort Family	G4	S1S2		SENSITIVE		3	Rock/Talus (Mesic, Montane)
			Species verified in these Counties: Flathead, Lincoln **State Rank Reason:** Rare in Montana, where it is known from a few, scattered locations in the northwest corner of the state.					
Mimulus nanus Dwarf Purple Monkeyflower		**Scrophulariaceae** Figwort Family	G5	S1		SENSITIVE	SENSITIVE	2	Open slopes (low-elevation)
			Species verified in these Counties: Gallatin, Ravalli **State Rank Reason:** *Mimulus nanus* is only known from a few extent occurrences in the state, plus two historical collections. Populations are generally small and in habitats susceptible to weed invasion. At least a few of the occurrences are infested have scattered spotted knapweed plants.					
Mimulus primuloides Primrose Monkeyflower		**Scrophulariaceae** Figwort Family	G4	S2		SENSITIVE	SENSITIVE	3	Fens and wet meadows
			Species verified in these Counties: Beaverhead, Ravalli **State Rank Reason:** Known from about ten extant occurrences in southwest Montana entirely on National Forest lands. Eight of the occurrences are moderate to large-sized populations. Two historical locations are also known. Fire may adversely impact M. primuloides though more study is needed. It is also vulnerable to changes in hydrology and one population could be adversely affected by activity at an adjacent ski area.					
Mimulus ringens Square-stem Monkeyflower		**Scrophulariaceae** Figwort Family	G5	S1			SENSITIVE		Wetland/Riparian
			Species verified in these Counties: Cascade, Chouteau, Fergus **State Rank Reason:** Rare. Currently known from a few riparian sites along the Missouri River in central Montana.					
Nama densum Nama		**Hydrophyllaceae** Waterleaf Family	G5	S1			SENSITIVE	3	Sagebrush (Sandy soil)
			Species verified in these Counties: Carbon **State Rank Reason:** Nama occurs in Montana on the northeastern edge of its range. It has been found at a single location on the south side of the Pryor Mountains in 1991, occupying less than one acre of habitat.					
Noccaea parviflora Small-flowered Pennycress	**Thlaspi parviflorum**	**Brassicaceae** Mustards	G3	S2S3			SENSITIVE	3	Meadows (Moist, Montane to alpine)
			Species verified in these Counties: Beaverhead, Carbon, Madison, Park, Silver Bow					

			State Rank Reason: *Noccaea parviflora* is a regional endemic, known in Montana from several southwestern counties. It is a small, short-lived plant that likely requires some disturbance to maintain its habitat.					
Nuttallanthus texanus Blue Toadflax	**Linaria canadensis var. texana**	**Scrophulariaceae** Figwort Family	G4G5	S1			SENSITIVE	2	Grasslands/woodlands (sandy to clay soils)
			Species verified in these Counties: Carter, Dawson **State Rank Reason:** Known from one extant occurrence in southeastern Montana near Alzada and another occurrence from Makoshika State Park that may or may not still be extant. Threats: Not Assessed. Short- and Long Term Trends: Unknown Intrinsic Vulnerability: Unknown					
Nymphaea leibergii Pygmy Water-lily	**Nymphaea tetragona ssp. leibergii**	**Nymphaeaceae** Water-lily Family	G5	S1				3	Aquatic
			Species verified in these Counties: Flathead, Lake, Missoula **State Rank Reason:** Known from 4 extant occurrences in western valleys and one historical collection from Salmon Lake in the Seeley Lake area. Populations are susceptible to impacts from development, recreation, siltation and aquatic weeds.					
Oenothera pallida ssp. pallida Pale Evening-primrose	**Oenothera pallida var. idahoensis**	**Onagraceae** Evening-primrose Family	G5T4Q	S1					Sandy sites
			Species verified in these Counties: Beaverhead **State Rank Reason:** Limited in Montana to the sandhills of the Centennial Valley in Beaverhead County. A reduction in natural disturbances, including fire, ungulate grazing and pocket gopher activity has led to greater dune stabilization and reduced the extent of early successional (blowout) habitat in the area.					
Oxytropis campestris var. columbiana Columbia Locoweed	**Oxytropis columbiana**	**Fabaceae** Pea Family	G5T1	S1				1	Wetland/Riparian (Gravelly shorelines)
			Species verified in these Counties: Lake **State Rank Reason:** Originally known in Montana from six occurrences all around Flathead Lake. However, two of the occurrences are now extirpated. Private lands, which are subject to development in the area, play a vital role in maintaining viable populations of this plant in Montana. Threats: High Short- Term Trends: Declining Long-Term Trends: Moderate Decline? Intrinsic Vulnerability: Moderate					
Oxytropis deflexa var. foliolosa Nodding Locoweed		**Fabaceae** Pea Family	G5T3T5	S1				3	Alpine
			Species verified in these Counties: Madison **State Rank Reason:** Rare in Montana, where it has been documented from a few, alpine sites in the mountains of the southwest portion of the state.					
Oxytropis lagopus var. conjugens Hare's-foot Locoweed		**Fabaceae** Pea Family	G4G5T3	S3				3	Sagebrush (low-elevation)
			Species verified in these Counties:					
Oxytropis parryi Parry's Locoweed		**Fabaceae** Pea Family	G5	S1				3	Alpine
			Species verified in these Counties: Beaverhead					
Oxytropis podocarpa Stalked-pod Locoweed		**Fabaceae** Pea Family	G4	S1		SENSITIVE		3	Alpine
			Species verified in these Counties: Teton **State Rank Reason:** Rare in Montana, where it is known from a small area of the Rocky Mountain Front. The remote habitat should limit the possibily of negative impacts.					
Papaver kluanense Alpine Poppy	**Papaver radicatum ssp. kluanense**	**Papaveraceae** Poppy Family	G5T3T4	S1				3	Alpine
			Species verified in these Counties: Carbon, Sweet Grass					
Papaver pygmaeum Alpine Glacier Poppy	**Papaver radicatum var. pygmaeum**	**Papaveraceae** Poppy Family	G3	S1				3	Alpine
			Species verified in these Counties: Flathead, Glacier					
Pedicularis contorta var. ctenophora Pink Coil-beaked Lousewort		**Scrophulariaceae** Figwort Family	G5T3	S2S3				3	Slopes (Montane/Subalpine)
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** Restricted to extreme southwestern Montana where it is documented from a few populations. Limited data is available for the species and it may be more common than the few collections indicate.					
Pedicularis contorta		**Scrophulariaceae**	G5T3	S2S3					Ridgetops and meadows

var. rubicunda Selway Coil-beaked Lousewort		Figwort Family							(subalpine and alpine)
			Species verified in these Counties: Ravalli **State Rank Reason:** Restricted in Montana to the Bitterroot Mountains where it is documented from several occurrences. Limited data is available for the species and it may be more common than the few collections indicate.						
Pedicularis crenulata Scallop-leaf Lousewort		**Scrophulariaceae** Figwort Family	G4	S1			SENSITIVE	1	Wetland/Riparian
			Species verified in these Counties: Beaverhead **State Rank Reason:** Two known populations in Montana. Much of the riparian meadow habitat occupied this species has been coverted to agriculture or used as hay meadows. Threats: Moderate Short-Term Trends: Unknown Long-Term Trends: Moderate Decline? Intrinsic Vulnerability: Moderate						
Penstemon angustifolius Narrowleaf Penstemon		**Scrophulariaceae** Figwort Family	G5	S1S2			SENSITIVE	3	Sandy sites
			Species verified in these Counties: Carter, Dawson, Fallon **State Rank Reason:** 10 small extant and/or presumed extant occurrences are known in southeast Montana, plus a few historical collections from the same area. Threats: Unknown, Not Assessed Trends: Unknown Intrinsic Vulnerability: Moderate						
Penstemon caryi Cary's Beardtongue		**Scrophulariaceae** Figwort Family	G3	S3				3	Grasslands and slopes (Open, montane)
			Species verified in these Counties: Carbon **State Rank Reason:** Restricted in Montana to the Pryor Mountains.						
Penstemon flavescens Yellow Beardtongue		**Scrophulariaceae** Figwort Family	G3	S3				3	Rocky slopes (Open, montane)
			Species verified in these Counties: Mineral, Ravalli **State Rank Reason:** Restricted in Montana to the Bitterroot Range primarily in Ravalli County but also documented from Mineral County. The species can be relatively common or widely scattrered in areas of suitable habitat, though detailed information on the abundance of the species is lacking. More detailed information documenting the abundance, distribution and any potential threats is needed.						
Penstemon globosus Globe Beardtongue		**Scrophulariaceae** Figwort Family	G4	S1					Meadows (Montane and subalpine)
			Species verified in these Counties: Granite						
Penstemon grandiflorus Large Flowered Beardtongue		**Scrophulariaceae** Figwort Family	G5?	S1					Sandy soils
			Species verified in these Counties: Custer **State Rank Reason:** Rare in Montana, where it is known from only a few sites on the plains of eastern Montana.						
Penstemon humilis Low Beardtongue		**Scrophulariaceae** Figwort Family	G5	S1S3					Sagebrush steppe (Montane)
			Species verified in these Counties: **State Rank Reason:** Known in Montana from 1 collection from Beaverhead County						
Penstemon lemhiensis Lemhi Beardtongue		**Scrophulariaceae** Figwort Family	G3	S3		SENSITIVE	SENSITIVE	2	Sagebrush-grasslands
			Species verified in these Counties: Beaverhead, Deer Lodge, Ravalli, Silver Bow **State Rank Reason:** *Penstemon lemhiensis* is a regional endemic that occurs only in southwest Montana and adjacent Idaho. There are numerous occurrences in Beaverhead and Ravalli Counties with a few additional occurrences located in Deer Lodge and Silver Bow Counties in Montana, but most are small to moderate in size. The number of plants in Montana is estimated at approximately 10,000 individual plants based on recent survey efforts. Plants occur on a mix of federal, state and private ownerships with National Forest lands supporting the majority of the occurrences. The species is primarily sensitive to negative impacts associated with drought conditions and fire suppression, both of which are believed to have played a significant role in the species' decline. Additional impacts to populations are occurring from noxious weed invasion, primarily spotted knapweed in the Bitterroot region. Heavy livestock grazing also negatively impacts the species. Several occurrences are found adjacent to roadsides and thus may be impacted by activities associated with road construction, maintenance and use.						
Penstemon payettensis Payette Beardtongue		**Scrophulariaceae** Figwort Family	G4	S1		SENSITIVE		1	Slopes (Open, Montane)
			Species verified in these Counties: Ravalli **State Rank Reason:** Known in Montana from only two small occurrrences in close proximity on the Bitterroot National Forest. Spotted knapweed invasion, fire suppression and road construction/maintenance are all concerns for the viability of the species in Montana. Additional data on the species in Montana are needed.						

Penstemon whippleanus Whipple's Beardtongue		**Scrophulariaceae** Figwort Family	G5	S1			SENSITIVE		Open areas (subalpine and alpine)
			Species verified in these Counties: Beaverhead, Gallatin, Madison **State Rank Reason:** Whipple's beardtongue occurs at the edge of its range in Montana, and is known here from just two collections, only one of which is recent. The species occupies high elevation, rocky habitat that is relatively unthreatened.						
Petasites frigidus var. frigidus Arctic sweet coltsfoot		**Asteraceae** Aster / Sunflowers	G5T5	S1				2	Wetland/Riparian
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Rare in Montana, where it is at the southern edge of its range. Known from less than ten sites in the northwest corner of the state.						
Phacelia incana Hoary Phacelia		**Hydrophyllaceae** Waterleaf Family	G3G4	S2			SENSITIVE	3	Rocky slopes (foothills)
			Species verified in these Counties: Beaverhead **State Rank Reason:** *Phacelia incana* occurs in Idaho, Nevada, Utah, Colorado and Montana. In Montana, it is known from approximately ten occurrences in Beaverhead County. It is difficult to estimate the size of populations because the plant is an annual, and seed germination varies greatly with climate. Habitat is probably not threatened by anthropogenic sources.						
Phacelia scopulina Dwarf Phacelia	**Phacelia lutea var. scopulina**	**Hydrophyllaceae** Waterleaf Family	G4	SH					Alkaline sites
			Species verified in these Counties: Beaverhead, Madison, Silver Bow **State Rank Reason:** Known in Montana from one 1885 collection by P.A. Rydberg near Melrose, probably in Silver Bow County.						
Phacelia thermalis Hot Spring Phacelia		**Hydrophyllaceae** Waterleaf Family	G3G4	S1			SENSITIVE		Barren clay slopes
			Species verified in these Counties: Fergus, Garfield, Phillips, Valley **State Rank Reason:** Hot spring phacelia is known from a very small number of sites in northeastern Montana, where it is disjunct from its primary range (northern California to southwestern Idaho). The species is an annual and may be vulnerable to competition from invasive exotics, particularly sweet clover, which is widespread in the type of habitat where hot spring phacelia has been found.						
Phlox andicola Plains Phlox		**Polemoniaceae** Phlox Family	G4	S2			SENSITIVE	3	Open sites (Sand to clay soils)
			Species verified in these Counties: Big Horn, Carter, Dawson, Powder River, Rosebud, Sheridan **State Rank Reason:** Plains phlox reaches the western margin of its range in Montana's eastern counties. It has been documented from relatively few locations, but surveys during its early blooming season have been few, and additional spring inventory work may locate more populations. It likely tolerates grazing and may benefit from some level of disturbance.						
Phlox kelseyi var. missoulensis Missoula Phlox	**Phlox missoulensis**	**Polemoniaceae** Phlox Family	G2G3	S2S3		SENSITIVE	SENSITIVE	2	Slopes/ridges (Open, foothills to subalpine)
			Species verified in these Counties: Cascade, Granite, Jefferson, Judith Basin, Lewis and Clark, Meagher, Missoula, Powell **State Rank Reason:** Missoula phlox is a state endemic known from over 2 dozen occurrences in west-central Montana, most of which are moderate to large-sized. Populations occur on a mix of ownerships, including private lands which host several occurrences. The Waterworks Hill population is infested with several noxious weeds and heavy recreational trail use also occurs within the occupied habitat. Other populations appear to be at much less risk though some impacts from invasive weeds, recreational use and development are possible.						
Physaria brassicoides Double Bladderpod		**Brassicaceae** Mustards	G5	S2			SENSITIVE	3	Breaklands/badlands
			Species verified in these Counties: Carter, Custer, Petroleum, Powder River **State Rank Reason:** Double bladderpod is endemic to a restricted area of the northern Great Plains, and is known in Montana only from a handful of populations. Populations occur on a mix of federal, state and private ownerships. Impacts to the species from livestock grazing and invasive weeds are minimal at this time as the typically steep, sparsely-vegetated habitat is not conducive to grazing. Yellow sweetclover was observed at one location and it may eventually have a negaitive impact on the species. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Physaria carinata Keeled Bladderpod	**Lesquerella carinata, Lesquerella carinata var. languida, Lesquerella paysonii**	**Brassicaceae** Mustards	G3G4	S1		SENSITIVE	SENSITIVE	1	Grassland slopes (low-elevation)
			Species verified in these Counties: Beaverhead, Granite **State Rank Reason:** *Physaria carinata* is restricted to areas of calcareous limestone substrates on low elevation, south-facing grasslands of Granite and Beaverhead Counties. Population numbers appear to have declined significantly in at least several of the occurrences in the Garnet Mountains from the time they were first documented in the 1980's and early 1990's. During this time period, spotted knapweed densities have increased in the area and the noxious weed is now a dominant plant in most of the keeled bladderpod sites. At least one previous study has documented decreased vigor and survivorship of keeled bladderpod in knapweed infested areas.						
Physaria didymocarpa var. lanata Woolly Twinpod		**Brassicaceae** Mustards	G5T2	S1			SENSITIVE	2	Grasslands/Shrublands (Open, plains)
			Species verified in these Counties: Big Horn, Rosebud **State Rank Reason:** Only five known occurrences in Montana, including two large populations. However, lots of relatively unsurveyed potential habitat exists. Both BLM and private lands are important to the viability of the species in Montana. Livestock grazing may						

			negatively impact some populations, though additonal monitoring is needed. Weeds have only been noted at one population though invasive weeds may pose a threat in the future. Potential coal mining and coalbed methane development may eventually impact populations of the plant. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate					
Physaria douglasii Douglas Bladderpod	**Lesquerella douglasii**	**Brassicaceae** Mustards	G4?	S1			2	Woodlands (Sandy soils, low-elevation)
			Species verified in these Counties: Lincoln **State Rank Reason:** Known from one population in northwest Montana at the edge of Lake Koocanusa. Impacts to the population from ORV use, recreation and erosion of the sandy bluffs are possible, though additional monitoring is needed to determine what impacts if any are occurring.					
Physaria humilis Bitterroot Bladderpod	**Lesquerella humilis**	**Brassicaceae** Mustards	G1	S1		SENSITIVE	2	Alpine
			Species verified in these Counties: Ravalli **State Rank Reason:** Montana endemic restricted to a very small area of the Bitterroot Mountains with only a few known occurrences. All occurrences are in the Selway-Bitterroot Wilderness. However, activity related to hiking trails and a lookout tower may adversely impact *P. humilis* plants or its habitat.					
Physaria klausii Divide Bladderpod	**Lesquerella klausii**	**Brassicaceae** Mustards	G3	S3			3	Slopes (Open, Montane/subalpine)
			Species verified in these Counties: Broadwater, Lewis and Clark, Meagher **State Rank Reason:** State endemic restricted to central-Montana with the majority of populations occurring in the Big Belt Mountains and extending north to the southern end of the Rocky Mountain Front. Many large populations exist and the species typically occurs on gravelly slopes that are not usually subject to human disturbance.					
Physaria lesicii Lesica's Bladderpod	**Lesquerella lesicii**	**Brassicaceae** Mustards	G1	S1			SENSITIVE	1	Woodlands/Grasslands (Montane)
			Species verified in these Counties: Carbon **State Rank Reason:** Lesica's bladderpod occurs only in Montana, where it is restricted to a few areas of limestone outcrops in the eastern Pryor Mountains. All known populations are on federal lands. While it occurs largely on steep terrain that is relatively inaccessible to humans, trampling and terracing through its habitat by wild horses may be negatively impacting the plant. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate-High					
Physaria ludoviciana Silver Bladderpod	**Lesquerella ludoviciana**	**Brassicaceae** Mustards	G5	S1					Sandy sites
			Species verified in these Counties: Carter, Fallon **State Rank Reason:** Rare in Montana. Primarily a plains species which barely enters eastern Montana where it is restricted to sandy sites.					
Physaria pulchella Beautiful Bladderpod	**Lesquerella pulchella, Physaria carinata ssp. pulchella**	**Brassicaceae** Mustards	G2	S2		SENSITIVE	SENSITIVE	3	Open slopes (Calcaeous soils, foothills to alpine)
			Species verified in these Counties: Beaverhead **State Rank Reason:** Beautiful bladderpod is a state endemic - occurring only in Montana - and is known only from a few locations, where it is restricted to small areas of sparsely vegetated habitat.					
Physaria saximontana var. dentata Rocky Mountain Twinpod		**Brassicaceae** Mustards	G3T3	S3					Gravelly slopes/talus (Montane/subalpine)
			Species verified in these Counties: Fergus, Flathead, Gallatin, Glacier, Lewis and Clark, Madison, Park, Pondera, Silver Bow, Teton **State Rank Reason:** State endemic known from several counties scattered across central and western Montana.					
Plagiobothrys leptocladus Slender-branched Popcorn-flower		**Boraginaceae** Borage Family	G4	S1			SENSITIVE		Wetland/Riparian (low-elevation)
			Species verified in these Counties: Beaverhead, Custer, Phillips **State Rank Reason:** Rare in Montana, where it is known from a few widely scattered sites in th state. Additional data on population levels, trends and threats to the known ocuurences are needed to evaluate its status.					
Pleiacanthus spinosus Spiny Skeletonweed	**Stephanomeria spinosa, Lygodesmia spinosa**	**Asteraceae** Aster / Sunflowers	G4	S1			SENSITIVE	3	Grasslands (low-elevation)
			Species verified in these Counties: Madison **State Rank Reason:** This plant occurs in Montana at the northeastern edge of its range, where it is known only from grasslands in the Madison Valley. Currently, there are only a few extant occurrences and three historical collections from this area. No specific threats have been reported.					
Polygonum	**Polygonum douglasii**	**Polygonaceae**	G5T4	S2S3		SENSITIVE	SENSITIVE	2	Rock/Talus

austiniae Austin's Knotweed	**ssp. austiniae**	Buckwheat Family	**Species verified in these Counties:** Broadwater, Flathead, Granite, Lewis and Clark, Madison, Meagher, Park, Pondera, Powell, Teton **State Rank Reason:** This annual knotweed is sparsely distributed in mountainous areas of Montana from the Rocky Mountain Front to the Madison and Gallatin Ranges. Sites are usually on open, gravelly, sparsely-vegetated slopes with shale-derived soils and as such are not generally impacted by human activity. Some sites however, are along forest roads and are susceptible to weed invasion and other disturbances. The probability of finding additional occurrences appears to be good since large areas of suitable habitat across western and central Montana remain unsurveyed for the species. Threats: Low Short- and Long-Term Trends: Unknown though Probably Stable. Intrinsic Vulnerability: Low						
Potentilla brevifolia Short-leaved Cinquefoil		**Rosaceae** Rose Family	G4	S1				3	Alpine
			Species verified in these Counties: Madison						
Potentilla hyparctica Low Arctic Cinquefoil	**Potentilla nana, Potentilla flabellifolia var. emarginata**	**Rosaceae** Rose Family	G4G5	S1				3	Alpine
			Species verified in these Counties: Carbon						
Potentilla nivea var. pentaphylla Five-leaf Cinquefoil	**Potentilla quinquefolia**	**Rosaceae** Rose Family	G5T4	S1		SENSITIVE		0	Alpine
			Species verified in these Counties: Glacier, Madison, Park, Pondera						
Potentilla plattensis Platte Cinquefoil		**Rosaceae** Rose Family	G4	S2			SENSITIVE	0	Grasslands/Sagebrush (Mesic)
			Species verified in these Counties: Beaverhead, Carbon, Judith Basin, Valley **State Rank Reason:** Rare in Montana, where it is known from several collections, particularly from Beaverhead County.						
Potentilla uniflora One-flowered Cinquefoil		**Rosaceae** Rose Family	G5	S1				3	Alpine
			Species verified in these Counties: Flathead, Glacier, Granite						
Primula alcalina Alkali Primrose		**Primulaceae** Primrose Family	G2	S1		SENSITIVE	SENSITIVE	1	Wetland/Riparian
			Species verified in these Counties: Beaverhead **State Rank Reason:** *Primula alcalina* is a regional endemic, occuring only in east-central Idaho and adjacent Montana, where it is known from just one recently documented population in Beaverhead County on BLM and National Forest lands. Another population documented by a historical collection from 1920 by F. Rose has not been relocated. The extant location is actively grazed and the species may be vulnerable to impacts associated with cattle grazing and activities that alter the hydrology (irrigation, diversions). Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Primula incana Mealy Primrose		**Primulaceae** Primrose Family	G4G5	S2		SENSITIVE	SENSITIVE	2	Wetland/Riparian
			Species verified in these Counties: Beaverhead, Broadwater, Carbon, Deer Lodge, Gallatin, Jefferson, Madison, Sheridan, Teton **State Rank Reason:** *Primula incana* is known from approximately 15 extant occurrences in Montana, including several moderate to large populations. However, most known populations are small, and the status of several populations is uncertain. Ownership of the occupied areas is varied and includes federal, state and private lands, including several locations managed or protected for their conservation values. However, unprotected private lands host many occurrences. Cattle grazing may have some negative effects on the species including the direct effects of herbivory and trampling. The species is also vulnerable to activities that alter the hydrology of the wetlands it occupies. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Prunus pumila Sand Cherry		**Rosaceae** Rose Family	G5	S1				2	Sandy or rocky soils (Plains)
			Species verified in these Counties: Fallon **State Rank Reason:** The sole known extant location in Montana occurs along a county road and is susceptible to road construction and maintenance activities. A 1960 collection with vague locational data has not been relocated but it apparently occurred in native habitat. Threats: Moderate Short- and Long-Term Trends: Unknown intrinsic Vulnerability: Low-Moderate						
Psilocarphus brevissimus Dwarf woolly-heads		**Asteraceae** Aster / Sunflowers	G4	S1			SENSITIVE	3	Wetland/Riparian
			Species verified in these Counties: Cascade, Petroleum, Phillips, Sanders						

Psoralea hypogaea Little Indian Breadroot	**Pediomelum hypogaeum var. hypogaeum**	**Fabaceae** Pea Family	G5T4	S2S3			SENSITIVE	3	Grasslands/Woodlands (Open, sandy soil)
			Species verified in these Counties: Carter, Cascade, Chouteau, Fergus, Golden Valley, Petroleum, Powder River, Rosebud						
Pyrrocoma carthamoides var. subsquarrosa Beartooth Large-flowered Goldenweed	**Haplopappus carthamoides var. subsquarrosus**	**Asteraceae** Aster / Sunflowers	G4G5T2T3	S2		SENSITIVE	SENSITIVE	3	Sagebrush-Grassland
			Species verified in these Counties: Carbon **State Rank Reason:** The Beartooth large-flowered goldenweed is a regional endemic that is restricted in Montana to the eastern front of the Beartooth Mountains and the foothills of the Pryor Mountains. Although several populations are large and the species may benefit from cattle grazing, it is vulnerable to increased shrub and tree cover due to fire suppression and to competition from invasive plants.						
Quercus macrocarpa Bur Oak		**Fagaceae** Beech / Oaks	G5	S1			SENSITIVE	1	Shale ridges
			Species verified in these Counties: Carter **State Rank Reason:** Bur oak is at the extreme western edge of its range in Montana, and has been documented only from a single, though fairly large, occurrence in Carter County. Bentonite mining is active in this area and exotic weeds are prevalent though potential for negative impacts to bur oak are uncertain. Threats: Not Assessed Short- and Long-Term trends: Unknown Intrinsic Vulnerability: Low						
Ranunculus cardiophyllus Heart-leaved Buttercup		**Ranunculaceae** Buttercup Family	G4G5	S1				2	Grasslands (Moist, Montane)
			Species verified in these Counties: Glacier, Sweet Grass, Toole						
Ranunculus grayi Arctic Buttercup	**Ranunculus karelinii, Ranunculus verecundus, Ranunculus gelidus**	**Ranunculaceae** Buttercup Family	G4G5	S2				3	Alpine
			Species verified in these Counties: Deer Lodge, Flathead, Glacier, Madison, Stillwater **State Rank Reason:** Also includes *R. verecundus* which was formerly tracked as a separate Species of Concern.						
Ranunculus hyperboreus High-arctic Buttercup	**Ranunculus natans**	**Ranunculaceae** Buttercup Family	G5	S1					Wetland/Riparian (Montane)
			Species verified in these Counties: Deer Lodge, Madison						
Ranunculus orthorhynchus Straightbeak Buttercup		**Ranunculaceae** Buttercup Family	G5	S1				1	Wetland/Riparian (Montane)
			Species verified in these Counties: Deer Lodge, Granite, Mineral						
Ranunculus pedatifidus Northern Buttercup		**Ranunculaceae** Buttercup Family	G5	S1			SENSITIVE	2	Meadows/Woodlands (Montane to Alpine)
			Species verified in these Counties: Chouteau, Glacier, Granite, Liberty, Toole						
Ribes laxiflorum Trailing Black Currant		**Grossulariaceae** Currants / Gooseberries	G5	S1					Shrublands (Rocky, montane)
			Species verified in these Counties: Lincoln **State Rank Reason:** Rare in Montana, where it is known from a single collection from Lincoln County.						
Ribes triste Swamp Red Currant		**Grossulariaceae** Currants / Gooseberries	G5	S1					Forest openings (Mesic, montane/subalpine)
			Species verified in these Counties: Granite, Mineral, Ravalli **State Rank Reason:** Only known from four locations, all based on single specimen collections. Threats: Unknown, Not Assessed Trends: Unknown						
Rorippa calycina Persistent-sepal Yellow-cress		**Brassicaceae** Mustards	G3	S1			SENSITIVE		Wetland/Riparian
			Species verified in these Counties: Big Horn, Custer, McCone, Rosebud, Treasure, Yellowstone **State Rank Reason:** *Rorippa calycina* is a regional endemic currently known only from four Montana records, three of which are historical. Recent surveys have failed to locate any populations, and it may be extirpated in the state, though outliers of Wyoming's Yellowtail Reservoir populations may extend downstream into Montana. This species' habitat is vulnerable to altered flooding regimes, bank stabilization and encroachment of exotic weeds, especially salt-cedar, tamarisk and leafy spurge. Threats: Moderate Long-Term Trends: Declining? Short-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Rotala ramosior		**Lythraceae**	G5	S1				0	Wetland/Riparian

Toothcup		Loosestrife Family	**Species verified in these Counties:** Lake, Missoula, Ravalli **State Rank Reason:** Rare in Montana, where it is known from approximately a half-dozen wetland sites in the valley bottoms in the western portion of the state. Potential threats and impacts to the known occurrences, as well as population trends, need to be evaluated.						
Sagina nivalis Arctic Pearlwort		**Caryophyllaceae** Pink Family	G5	S1				3	Alpine
			Species verified in these Counties: Glacier **State Rank Reason:** Known in Montana from a single location in Glacier National Park surveyed in 1985.						
Salix barrattiana Barratt's Willow		**Salicaceae** Willows / Poplar	G5	S1		SENSITIVE		3	Alpine
			Species verified in these Counties: Carbon, Glacier **State Rank Reason:** Rare in Montana. Known from two disjunct sites, one in Glacier National Park and one on the Beartooth Plateau.						
Salix cascadensis Cascades Willow		**Salicaceae** Willows / Poplar	G4G5	S1					Alpine
			Species verified in these Counties: Deer Lodge **State Rank Reason:** Rare in Montana. Species is known in Montana only from a small area of the Anaconda-Pintlers.						
Salix serissima Autumn Willow		**Salicaceae** Willows / Poplar	G4	S2				3	Wetland/Riparian
			Species verified in these Counties: Glacier, Meagher, Teton **State Rank Reason:** This willow is primarily found in Montana along the Rocky Mountain Front. Approximately half the occurrences are on lands managed in part for their conservation value. The species is primarily susceptible to impacts associated with heavy grazing and changes in the hydrology of the fens and wet meadows which it occupies. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Satureja douglasii Yerba Buena	**Clinopodium douglasii**	**Lamiaceae** Mints	G4	S2					Forest (Moist, montane)
			Species verified in these Counties: Missoula, Ravalli, Sanders **State Rank Reason:** Primarily a coastal species disjunct into western Montana where it is known from over a dozen moist, forested sites.						
Saussurea densa Dwarf Saw-wort	**Saussurea nuda var. densa**	**Asteraceae** Aster / Sunflowers	G4	S1S2				3	Alpine
			Species verified in these Counties: Flathead, Lewis and Clark, Pondera, Teton **State Rank Reason:** Known from a handfull of small occurrences along the Rocky Mountain Front, primarily in the Bob Marshall Wilderness Complex. Limited data are available for most occurrences leading to the uncertainty in the species' rank.						
Saussurea weberi Weber's Saw-wort		**Asteraceae** Aster / Sunflowers	G2G3	S1		SENSITIVE		3	Alpine
			Species verified in these Counties: Deer Lodge, Granite **State Rank Reason:** Known from one large occurrence in the Anaconda-Pintler Range in the alpine zone.						
Saxifraga apetala Tiny Swamp Saxifrage	**Saxifraga integrifolia Hook. var. apetala**	**Saxifragaceae** Saxifrage Family	G3Q	S2?				3	Alpine
			Species verified in these Counties: Beaverhead, Carbon **State Rank Reason:** Known from two occurrences, one in the East Pioneers and one in the Absaroka-Beartooth Wilderness. Both occurrences are known from single specimen collections. Though little data are available for the species in Montana, the alpine habitat in which it grows is not generally subject to negative impacts from human disturbance. Threats: Very low Short- and Long-Term trends: Unknown Intrinsic vulnerability: Moderate						
Saxifraga hirculus Yellow Marsh Saxifrage		**Saxifragaceae** Saxifrage Family	G5	S1				3	Alpine
			Species verified in these Counties: Carbon **State Rank Reason:** Known from one small population in the Absorka-Beartooth Wilderness.						
Saxifraga tempestiva Storm Saxifrage		**Saxifragaceae** Saxifrage Family	G2	S2		SENSITIVE		3	Alpine
			Species verified in these Counties: Beaverhead, Deer Lodge, Granite, Ravalli **State Rank Reason:** State endemic known from approximately a dozen extant sites in southwest Montana. The high elevation habitat of the species in conjuction with approximately half of the populations in designated wilderness areas minimize the potential for negative impacts to the species.						
Senecio amplectens Clasping Groundsel	**Ligularia amplectens**	**Asteraceae** Aster / Sunflowers	G4	S1				1	Alpine
			Species verified in these Counties: Carbon **State Rank Reason:** In Montana, only known from the Beartooth (Line Creek) Plateau. Little data are available for the species in Montana. More information is needed.						
Senecio elmeri Elmer's Ragwort	**Senecio spribillei**	**Asteraceae** Aster / Sunflowers	G4	S1					Alpine
			Species verified in these Counties: Lincoln, Sanders						

			State Rank Reason: Rare in the state. Known from only one high-elevation site in the Cabinet Mountains. Its location in a designated wilderness and its high-elevation habitat should prevent most detrimental imapcts to the species' viability in Montana.					
Senecio eremophilus Desert Groundsel		**Asteraceae** Aster / Sunflowers	G5	S1S2				Wetland/Riparian
			Species verified in these Counties: Big Horn, Hill **State Rank Reason:** Known from at least 5 occurrences, including two historical collections. Little data are available for this species in Montana. More information is needed. May be more common than collections indicate.					
Shoshonea pulvinata Shoshonea		**Apiaceae** Parsley / Carrot Family	G2G3	S1		SENSITIVE	SENSITIVE	3	Rock Outcrops
			Species verified in these Counties: Carbon **State Rank Reason:** Known in Montana only from the Pryor Mountains and the eastern slope of the Beartooth Plateau. Occurrences are located mostly on federal lands.					
Sidalcea oregana Oregon Checker-mallow		**Malvaceae** Mallow Family	G5	S1				1	Grasslands (low-elevation)
			Species verified in these Counties: Gallatin, Lake **State Rank Reason:** Known from two widely separate sites in Gallatin and Lake Counties. Habitats occupied by the species are susceptible to weed invasion and both locations have a large component of weedy species. However, *S. oregana* appears capable of tolerating at least some competition from these weedy species. The Lake County population occurs near and along Highway 93 and has the potential to be significantly negatively impacted by highway construction. Threats: High Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Low					
Silene spaldingii Spalding's Catchfly	Spalding's Campion	**Caryophyllaceae** Pink Family	G2	S1	LT			1	Grasslands (Intermountain)
			Species verified in these Counties: Flathead, Lake, Lincoln, Sanders **State Rank Reason:** *Silene spaldingii* exists in only a few locations in the northwest corner of the state. Extant occurrences are known in the following areas: Tobacco Plains area, Lost Trail National Wildlife Refuge, the Niarada area and on Wild Horse Island. The majority of occurrences have less than 100 individuals, though the largest population range-wide occurs in the state and is estimated to contain several thousand plants. One historical occurrence exists from the Columbia Falls area. Several threats affect the long-term viability of the species in the state. Invasive weeds are the most widespread threat and are negatively impacting the bunchgrass habitat occupied by *S. spaldingii.* Housing development and subdivision are directly impacting one occurrence and has the potential to further isolate other populations. Cattle grazing is affecting five populations and two other occurrences have apparently been extirpated recently from the severe impacts associated with llama grazing. Fire exclusion and the successive build-up of litter compared to historical conditions appears to be having negative impacts on survival and reproduction. Populations are also at risk due to the small numbers of individuals and their isolated nature, which reduces the chances of cross-pollination and gene flow between populations. Long- and short-term trends are difficult to gauge due to the lack of survey and monitoring data. Estimates of trends and population size are also compounded by *S. spaldingii* plants exhibiting summer dormancy at rates that vary widely from year to year.					
Solidago ptarmicoides Prairie Goldenrod	**Oligoneuron album, Aster ptarmicoides**	**Asteraceae** Aster / Sunflowers	G5	S1					Grasslands (Plains)
			Species verified in these Counties: Carter, Richland **State Rank Reason:** Rare in Montana, where it has only been documenetd from two locations on the eastern plains.					
Solidago velutina Three-nerved Goldenrod	**Solidago sparsiflora**	**Asteraceae** Aster / Sunflowers	G5?	S1			SENSITIVE		NA
			Species verified in these Counties: **State Rank Reason:** Few-flowered goldenrod is known in Montana from 1 specimen collection from the Stillwater River Valley, which lacks precise locality data. Other reports of this species from the state are based on mis-identified specimens which are referable to other species.					
Sphaeralcea munroana White-stemmed globemallow		**Malvaceae** Mallow Family	G4	S1			SENSITIVE	3	Sagebrush-Grasslands (low-elevation)
			Species verified in these Counties: Beaverhead **State Rank Reason:** Only known from five small occurrences clustered in an area of Beaverhead County in southwest Montana.					
Sphaeromeria argentea Chicken-sage	**Tanacetum nuttallii**	**Asteraceae** Aster / Sunflowers	G3G4	S2S3			SENSITIVE	3	Sagebrush steppe (low-elevation)
			Species verified in these Counties: Beaverhead **State Rank Reason:** *Sphaeromeria argentea* occurs in east-central Idaho and adjacent Beaverhead County, Montana with disjunct populations in Nevada as well as southwest Wyoming and adjacent Colorado. There are nearly 20 known locations south of Dillon; many populations are sparse but spread over large areas, so population estimates are difficult. All known populations are subject to livestock grazing; however chicken sage is aromatic and most likely unpalatable to cattle.					
Sphaeromeria capitata Rock-tansy	**Tanacetum capitatum**	**Asteraceae** Aster / Sunflowers	G3	S3				3	Open sites (low-elevation, limestone soils)
			Species verified in these Counties: Beaverhead, Big Horn, Carbon, Madison **State Rank Reason:** This species is a regional endemic with limited distribution in limestone foothills of southwest Montana (upper					

			Beaverhead River drainage) and Pryor Mts - Big Horn Canyon. It is reported to be locally common in the Big Horn Canyon area (Lesica & Shelly, 1991)					
Stellaria crassifolia Fleshy Stitchwort		**Caryophyllaceae** Pink Family	G5	S1					Wetland/Riparian
			Species verified in these Counties: Beaverhead, Carbon, Deer Lodge, Sanders **State Rank Reason:** Sparsely distributed in Montana with only two known locations likely extant. Three other historical collection known from the state. Additional occurrences are likely. Threats: Unknown, Not Assessed Trends: Unknown					
Stellaria jamesiana James Stitchwort	**Pseudostellaria jamesiana**	**Caryophyllaceae** Pink Family	G5	S1			SENSITIVE		Woodland slopes (foothills and montane)
			Species verified in these Counties: Beaverhead **State Rank Reason:** Two known occurrences from extreme southwest Montana. Very little data are available for these locations. Threats: Unknown, Not Assessed Trends: Unknown					
Suckleya suckleyana Poison Suckleya		**Chenopodiaceae** Goosefoot Family	G5	S1			SENSITIVE		Wetland/Riparian
			Species verified in these Counties: Dawson, Petroleum, Roosevelt, Valley **State Rank Reason:** Known from one extant occurrence in Dawson County and three historical collections in eastern Montana. Very little is known about these site locations or the distribution, abundance and threats to the species in Montana. Threats: Unknown, Not Assessed Trends: Unknown					
Sullivantia hapemanii Wyoming Sullivantia		**Saxifragaceae** Saxifrage Family	G3	S2				3	Rock/Talus
			Species verified in these Counties: Big Horn, Carbon **State Rank Reason:** Wyoming sullivantia is regional endemic known in Montana only from a few, clustered locations. It grows in small, fragile aquatic habitats that may be vulnerable to hydrologic changes from water development or diversion, or trampling.					
Symphyotrichum frondosum Short-rayed Alkali Aster	**Brachyactis frondosa, Aster frondosus**	**Asteraceae** Aster / Sunflowers	G4	SH					Wetland/Riparian
			Species verified in these Counties: Sanders **State Rank Reason:** Known from one 1967 collection near "Dry Fork of Little Bitterroot Reservoir".					
Synthyris canbyi Mission Mountain kittentails		**Scrophulariaceae** Figwort Family	G3	S3				3	Alpine
			Species verified in these Counties: Lake, Missoula **State Rank Reason:** State endemic with 10 occurrences restricted to high elevation, open, rocky slopes in the Mission and Swan Ranges. As such, habitat is not generally prone to human disturbance and most occurrences are in designated wilderness areas. Additional occurrences likely exist across the known range of the species.					
Thalictrum alpinum Alpine Meadowrue		**Ranunculaceae** Buttercup Family	G5	S2		SENSITIVE	SENSITIVE	2	Wetland/Riparian
			Species verified in these Counties: Beaverhead, Deer Lodge, Granite **State Rank Reason:** Rare in Montana, where it is known from approximately two dozen sites mostly on public land. Its habitat is vulnerable to hydrological alteration. Grazing can be beneficial, except where it leads to stream downcutting and loss of riparian habitat.					
Thelypodium paniculatum Northwestern Thelypody		**Brassicaceae** Mustards	G2	SH					Wetland/Riparian
			Species verified in these Counties: Beaverhead **State Rank Reason:** Known only from an 1899 collection in Beaverhead County, although Dorn (1984) also reports it for Madison County.					
Thelypodium sagittatum Slender Thelypody		**Brassicaceae** Mustards	G4	S2			SENSITIVE	3	Alkaline meadows (Valleys and Montane)
			Species verified in these Counties: Beaverhead, Gallatin **State Rank Reason:** Known from numerous occurrences in extreme southwestern Montana.					
Tonestus aberrans Idaho Goldenweed	**Haplopappus aberrans, Triniteurybia aberrans**	**Asteraceae** Aster / Sunflowers	G3	S1		SENSITIVE		1	Rock/Talus
			Species verified in these Counties: Ravalli **State Rank Reason:** Known from two moderate-sized occurrences and two smaller occurrences on the Bitterroot National Forest and adjacent private land. One population occurs adjacent to a road. Construction of which may have impacted the population. No negative impacts to the populations are currently known to be occurring. However, populations are susceptible to potential impacts associated with roads and rock climbing.					
Tonestus pygmaeus Pygmy Goldenweed	**Haplopappus pygmaeus**	**Asteraceae** Aster / Sunflowers	G4	SH					Alpine
			Species verified in these Counties: **State Rank Reason:** Known in Montana from 1 historical collection from Lolo Peak. Other historical locations previously reported for MT					

			have all been based on mis-identified specimens of Tonestus lyallii						
Townsendia condensata Cushion Townsend-daisy		**Asteraceae** Aster / Sunflowers	G4	S1				2	Alpine
			Species verified in these Counties: Flathead, Glacier, Park **State Rank Reason:** Cushion townsendia is known in Montana from one presumed extant occurrence in Glacier National Park and three other historical collections from GNP and the Beartooth Mountains. Risks are likely minimal given the remoteness of its alpine habitat.						
Townsendia florifera Showy Townsend-daisy		**Asteraceae** Aster / Sunflowers	G5	S1			SENSITIVE	3	Grasslands and Sagebrush
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** Known in Montana from only a few, small occurrences in the southwestern corner of the state.						
Trifolium eriocephalum Woolly-head Clover		**Fabaceae** Pea Family	G5	S2		SENSITIVE		2	Open areas (foothills and montane)
			Species verified in these Counties: Ravalli **State Rank Reason:** Known from eight large occurrences on the Bitterroot National Forest. Invasive weeds, particularly spotted knapweed, are a problem in the habitat occupied by the species. Timber harvest and related road-building activities may also negatively impact populations. However, *Trifolium eriocephalum* appears capable of tolerating some level of disturbance.						
Trifolium gymnocarpon Hollyleaf Clover		**Fabaceae** Pea Family	G5	S2		SENSITIVE		2	Open areas (foothills and montane)
			Species verified in these Counties: Granite, Ravalli **State Rank Reason:** Known from many sites within the West Fork Bitterroot River drainage, which would encompass one large metapopulation. Also known in Montana from one disjunct occurrence in the Rock Creek drainage on the Lolo National Forest. Invasive weeds, particularly spotted knapweed, are a problem in some of the habitat occupied by the species. However, *Trifolium gymmocarpon*, as with other clover species, appears capable of tolerating or even benefitting from some disturbance.						
Utricularia intermedia Flat-leaved Bladderwort		**Lentibulariaceae** Bladderworts	G5	S1		SENSITIVE		3	Fens (Aquatic)
			Species verified in these Counties: Flathead, Lincoln **State Rank Reason:** Only known from a few occurrences in the western half of the state.						
Vaccinium myrtilloides Velvetleaf Blueberry		**Ericaceae** Heath Family	G5	S1				2	Forests
			Species verified in these Counties: Flathead **State Rank Reason:** Only known in Montana from several sites in the vicinity of West Glacier. Some of the known population and associated habitat has been negatively impacted by development (visitor and transportation facilities) within Glacier National Park.						
Viburnum lentago Nannyberry		**Caprifoliaceae** Honeysuckle Family	G5	S1			SENSITIVE	2	Riparian forests
			Species verified in these Counties: Big Horn, Richland, Roosevelt **State Rank Reason:** Three known occurrrences in eastern Montana.						
Viguiera multiflora Many-flowered Viguiera	**Heliomeris multiflora**	**Asteraceae** Aster / Sunflowers	G4G5	S1			SENSITIVE	3	Aspen woodlands
			Species verified in these Counties: Beaverhead, Madison **State Rank Reason:** Known from one extant occurrence in Beaverhead County and four historical collections from Beaverhead, Gallatin and Madison Counties.						
Viola selkirkii Great-spurred Violet		**Violaceae** Violets	G5?	S1		SENSITIVE			Wetland/Riparian
			Species verified in these Counties: Lincoln **State Rank Reason:** Only known in Montana from a few locations in the northwest corner of the state.						
Waldsteinia idahoensis Idaho Barren Strawberry		**Rosaceae** Rose Family	G3	S1		SENSITIVE			Forests (Ponderosa Pine)
			Species verified in these Counties: Missoula **State Rank Reason:** Only one known site in Montana on National Forest land. Population is susceptible to impacts from logging, weed invasion and road maintenance.						

FLOWERING PLANTS - MONOCOTS (LILIOPSIDA)

76 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Acorus americanus Sweetflag	**Acorus calamus [misapplied]**	**Acoraceae** Sweetflag / Calamus Family	G5	SH					Wetland/Riparian
			Species verified in these Counties: Flathead, Lake **State Rank Reason:** This species occurs at the edge of its range in Montana, where it was collected from two localities in the vicinity of Flathead Lake in 1955 and 1968. Current status of these populations is unknown. It could be affected by hydrologic alterations.						

			Threats: NA Trends: NA					
Allium acuminatum Tapertip Onion		**Liliaceae** Lillies	G5	S1		SENSITIVE	SENSITIVE		Dry Forest-Grassland
			Species verified in these Counties: Madison, Ravalli, Sanders **State Rank Reason:** Rare in Montana, where it is known from several widely scattered sites in the western half of the state.						
Allium columbianum Columbia Onion		**Liliaceae** Lillies	G3	S1					Open, mesic sites
			Species verified in these Counties: Sanders **State Rank Reason:** Known from one occurrence in Camas Prairie. Part of this occurrence has been replaced by a gravelpit. Nearly all suitable habitat in the area has been converted to agriculture. Invasive weeds may also negatively impact the remaining habitat and threaten the population.						
Allium parvum Small Onion		**Liliaceae** Lillies	G5	S2S3		SENSITIVE			Dry Forest-Grassland
			Species verified in these Counties: Beaverhead, Ravalli **State Rank Reason:** Known from southwest Montana, primarily on the Bitterroot National Forest. Many of the the documented occurrences have large numbers of individuals and cover extensive areas. However, many of the sites are also infested with spotted knapweed and/or cheatgrass and continued increases in the density and spread of both invasive weeds are likely, further degrading the habitat occupied by *Allium parvum.* More information on the threats posed by invasive weeds is needed to determine if an S2 or S3 rank is most appropriate for this species.						
Allium simillimum Dwarf Onion		**Liliaceae** Lillies	G4	S1					Mesic Grasslands-Meadows
			Species verified in these Counties: Gallatin, Ravalli **State Rank Reason:** Rare in Montana, where it is known from only a few locations in the southwest portion of the state near the Idaho border. Available survey data are limited for the species in Montana.						
Amerorchis rotundifolia Round-leaved Orchis	**Orchis rotundifolia**	**Orchidaceae** Orchids	G5	S2S3		SENSITIVE			Wetland/Riparian
			Species verified in these Counties: Flathead, Glacier, Lake, Lewis and Clark, Lincoln, Pondera, Powell, Teton **State Rank Reason:** In Montana, this species is restricted to the Rocky Mountain Front, Bob Marshall Wilderness Complex, Swan Valley and the northwest corner of the state. Several dozen occurrences are known in Montana with many being large, healthy populations. However, information on threats faced by the species, as well as trend data are lacking.						
Calamagrostis tweedyi Cascade reedgrass		**Poaceae** Grasses	G3	S3					Montane Forest
			Species verified in these Counties: Mineral, Missoula, Ravalli, Sanders **State Rank Reason:** A species of limited distribution and currently considered to be globally rare. Restricted in Montana to the extreme western portion of the state.						
Calochortus bruneaunis Bruneau Mariposa Lily		**Liliaceae** Lillies	G5	SH					Grasslands (Intermountain)
			Species verified in these Counties: Beaverhead **State Rank Reason:** Known in Montana from one 1941 collection by M. Ownbey approximately 1.5 miles southeast of Lima. Threats: NA Trends: NA						
Carex amplifolia Big-leaf Sedge		**Cyperaceae** Sedges	G4	S1		SENSITIVE			Wetland/Riparian
			Species verified in these Counties: Sanders **State Rank Reason:** Only known from 1 collection in Montana.						
Carex chordorrhiza Creeping Sedge		**Cyperaceae** Sedges	G5	S2		SENSITIVE		3	Wetland/Riparian
			Species verified in these Counties: Flathead, Lincoln, Powell **State Rank Reason:** An uncommon species within fens in northwest Montana						
Carex comosa Bristly Sedge		**Cyperaceae** Sedges	G5	S1				1	Wetland/Riparian
			Species verified in these Counties: Flathead **State Rank Reason:** Only one known location in Montana on the shore of Flathead Lake. Occurrence is threatened by erosion caused by wave action and artificially high lake levels. Threats: Moderate-High Short- and Long-Term trends: Unknown Intrinsic Vulnerability: Moderate						
Carex crawei Crawe's Sedge		**Cyperaceae** Sedges	G5	S2			SENSITIVE	2	Wetland/Riparian
			Species verified in these Counties: Cascade, Pondera, Powell, Prairie, Teton **State Rank Reason:** Known in Montana from eight occurrences, including five moderate to large populations. Threats: Unknown, Not Assessed						

			Trends: Unknown Intrinsic Vulnerability: Not Assessed					
Carex gravida Pregnant Sedge		**Cyperaceae** Sedges	G5	S1S2				2	Wetland/Riparian
			Species verified in these Counties: Big Horn, Carter, Powder River, Richland, Rosebud **State Rank Reason:** *Carex gravida* has been found at a few widely scattered locations in eastern Montana, and is not generally abundant where it occurs. However, it is likely that the species is more abundant than what current data shows. Habitats include moist, green ash woodlands, which are attractive to livestock, and it may be particularly vulnerable to moderate grazing because of its cespitose growth form. These habitats are also quite vulnerable to invasion by non-native plants. Threats: Low-Moderate Long-Term Trends: Likely Moderate Decline Short- Term trends: Unknown Intrinsic Vulnerability: Moderate					
Carex idahoa Idaho Sedge	**Carex parryana ssp. idahoa**	**Cyperaceae** Sedges	G2G3	S3		SENSITIVE	SENSITIVE	2	Wetland/Riparian
			Species verified in these Counties: Beaverhead, Madison, Powell, Silver Bow **State Rank Reason:** Idaho sedge is a regional endemic known from several dozen sites in Montana which cluster into approx 15-20 populations, most on public lands. The estimated number of stems is in the tens of thousands, but total occupied habitat has been estimated at less than 200 acres. The species is palatable, and populations may be affected by heavy grazing. Other risks are competition from exotic species, hydrologic alterations, agricultural development and road construction/maintenance.					
Carex incurviformis Coastal Sand Sedge	**Carex maritima var. incurviformis**	**Cyperaceae** Sedges	G4G5	S1				3	Wetland/Riparian
			Species verified in these Counties: Deer Lodge, Glacier, Madison, Teton **State Rank Reason:** Five known occurrences in Montana, three are in Wildness areas or Glacier National Park. However, all populations are apparently small to moderate in size based on limited survey data for the species. All occurrences are in alpine habitat that is not generally subject to human impacts. Threats: Low Short- and Long-Term trends: Unknown Intrinsic Vulnerability: Not Assessed					
Carex lacustris Lake-bank Sedge		**Cyperaceae** Sedges	G5	S1		SENSITIVE		2	Fens and marshes
			Species verified in these Counties: Lake **State Rank Reason:** A rare species in Montana, known only from a few occurrences in Lake and Flathead Counties.					
Carex lenticularis var. dolia Goose-grass Sedge	**Carex plectocarpa**	**Cyperaceae** Sedges	G5T3Q	S1				2	Alpine
			Species verified in these Counties: Flathead, Glacier, Park **State Rank Reason:** Known in Montana from five occurrences, four in Glacier National Park and one disjunct population in the Absarokas. Some plants in the Logan Pass area are subject to trampling by hikers. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Low-Moderate					
Carex multicostata Many-ribbed Sedge		**Cyperaceae** Sedges	G5	S1					Grasslands (Montane)
			Species verified in these Counties: Beaverhead, Gallatin, Park **State Rank Reason:** A rare species in Montana, scattered in the mountains of the southwest and south-central portions of the state.					
Carex occidentalis Western Sedge		**Cyperaceae** Sedges	G4	SH					Dry, montane to alpine
			Species verified in these Counties: **State Rank Reason:** Known in Montana from an 1887 collection by Tweedy near "Boulder Creek" and a 1930 collection on Willow Creek in Beaverhead County.					
Carex petricosa Rock Sedge		**Cyperaceae** Sedges	G4	S1				3	Alpine
			Species verified in these Counties: Glacier **State Rank Reason:** Rare in Montana, where it is currently known from only 1 site in Glacier National Park.					
Carex prairea Prairie Sedge		**Cyperaceae** Sedges	G5?	S2		SENSITIVE		0	Fens
			Species verified in these Counties: Flathead, Lincoln **State Rank Reason:** Rare in Montana, where it is currently known from a small area in the northwest corner of the state.					
Carex rostrata Glaucus Beaked Sedge		**Cyperaceae** Sedges	G5	S1		SENSITIVE		3	Fens
			Species verified in these Counties: Flathead, Lincoln, Missoula **State Rank Reason:** This is a rare species in Montana, not to be confused with the more common Carex utriculata which had been					

			mistakenly treated under the name Carex rostrata in many past Floras which cover Montana.					
Carex scoparia Pointed Broom Sedge		**Cyperaceae** Sedges	G5	S1S2					Wetland/Riparian (Valleys)
			Species verified in these Counties: Missoula, Ravalli **State Rank Reason:** Rare in Montana, where it is currently known from only a few sites in the Clark Fork and Bitterroot River drainages.						
Carex stenoptila Small-winged Sedge		**Cyperaceae** Sedges	G2	S1S2			SENSITIVE		Grasslands (Montane)
			Species verified in these Counties: Carbon, Gallatin, Madison, Ravalli, Stillwater, Sweet Grass **State Rank Reason:** A globally rare species, which is known from several widely scattered locations in Montana.						
Carex stevenii Steven's Scandinavian Sedge	**Carex norvegica ssp. stevenii**	**Cyperaceae** Sedges	G5T4?	S1					Wetland/Riparian (Subalpine)
			Species verified in these Counties: Beaverhead, Deer Lodge **State Rank Reason:** Rare in Montana, where it is currently known from a few scattered sites in mountainous areas across the southern half of the state.						
Carex sychnocephala Many-headed Sedge		**Cyperaceae** Sedges	G4	S1				1	Wetland/Riparian
			Species verified in these Counties: Cascade, Glacier, Lake, Lincoln, Sheridan **State Rank Reason:** Currently known in the state from three occurrences believed to be extant. Also, known from one 1891 collection near Great Falls and two locations in northwest Montana now believed to be extirpated as a result of wetland draining and construction of a dock. The remaining populations are on the Blackfeet Indian Reservation and a Nature Conservancy Perserve. Due to the habitats in which the species grows, it is vulnerable to development and hydrologic alterations. Threats: Moderate Long-Term Trends: Probable Decline Short-Term Trends: Moderate Decline Intrinsic Vulnerability: Low-Moderate						
Carex tenuiflora Thin-flowered Sedge		**Cyperaceae** Sedges	G5	S1				3	Fens
			Species verified in these Counties: Flathead **State Rank Reason:** Rare in Montana, where it is currently known from only 1 location in Glacier National Park.						
Carex vaginata Sheathed Sedge		**Cyperaceae** Sedges	G5	S1		SENSITIVE			Wetland/Riparian
			Species verified in these Counties: Lincoln **State Rank Reason:** Rare in Montana, where it is currently known from only 1 area in the northwest corner of the state.						
Cyperus acuminatus Short-pointed Flatsedge		**Cyperaceae** Sedges	G5	S1					Wetland/Riparian
			Species verified in these Counties: Sanders **State Rank Reason:** Rare in Montana, where it is currently known from only 1 collection in the western portion of the state.						
Cyperus bipartitus Shining Flatsedge	**Cyperus rivularis**	**Cyperaceae** Sedges	G5	S1					Wetland/Riparian
			Species verified in these Counties: Missoula, Ravalli **State Rank Reason:** Rare in Montana, where it is currently known from only the Bitterroot Valley.						
Cyperus erythrorhizos Red-root Flatsedge		**Cyperaceae** Sedges	G5	SH					Wetland/Riparian
			Species verified in these Counties: **State Rank Reason:** Known in Montana from an 1899 collection near Columbia Falls and an undated collection in Missoula County.						
Cyperus schweinitzii Schweinitz' Flatsedge		**Cyperaceae** Sedges	G5	S2			SENSITIVE	0	Sandy sites
			Species verified in these Counties: Carter, Cascade, Custer, Powder River, Sheridan **State Rank Reason:** Rare in Montana, where it is currently known from a few widely scattered sandy sites.						
Cypripedium fasciculatum Clustered Lady's-slipper		**Orchidaceae** Orchids	G4	S2		SENSITIVE		1	Forests (Montane)
			Species verified in these Counties: Lake, Mineral, Missoula, Sanders **State Rank Reason:** Clustered lady's-slipper is known for Montana from the northwest portion of the state, where it is known from 10 moderate to large populations, 3 historical occurrences and many other small occurrences. Most populations occur on National Forest lands. Timber harvesting has been the primary threat to the species in Montana.						
Cypripedium passerinum Sparrow's-egg Lady's-slipper		**Orchidaceae** Orchids	G4G5	S2		SENSITIVE		2	Forests (Mesic bottoms)
			Species verified in these Counties: Flathead, Glacier, Lake, Lewis and Clark, Lincoln, Pondera, Powell, Teton **State Rank Reason:** Sparrow's-egg lady's-slipper is known from over a dozen moderate to large-sized populations, a few dozen small occurrences and one historical location. Several of the occurrences are either in designated wilderness areas or in Glacier National Park. The main threat to populations appears to be from potential hydrologic changes resulting from timber harvest or other activities. Invasive weeds such as Canada thistle and ox-eye daisey pose a limited threat.						
Dichanthelium oligosanthes var.	**Panicum oligosanthes var. scribnerianum,**	**Poaceae** Grasses	G5T5	S1			SENSITIVE		Mesic, sandy woodlands (low-elevation)

scribnerianum Scribner's Panic Grass	**Panicum scribnerianum**		**Species verified in these Counties:** Lake, Powder River **State Rank Reason:** Scribner's panic grass is a plant of dry woodlands, known from widely separated sites in southeastern and northwestern Montana. Only one large-sized population is known in the state, two others are very small, and the fourth occurrence is known only from a historical collection. Occurrences in eastern Montana may be negatively impacted by cattle grazing. The largest occurrence in the state lies adjacent to Highway 93 and negative impacts associated with expansion of the highway is likely. Invasive weeds and forest encroachment are also problems at this site. Threats: High Long-Term Trends: Probable Decline Short-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Eleocharis rostellata Beaked Spikerush		**Cyperaceae** Sedges	G5	S2		SENSITIVE	SENSITIVE	3	Wetlands (Alkaline)
			Species verified in these Counties: Carbon, Flathead, Gallatin, Lake, Lewis and Clark, Lincoln, Madison, Meagher, Park, Sanders, Sweet Grass, Teton **State Rank Reason:** Known from over a dozen extant sites and a few historical locations. Private and state lands host many occurrences and are vital to the viability of the species in the state. The species is vulnerable to hydrologic alteration and development.						
Elodea bifoliata Long-sheath Waterweed	**Elodea longivaginata**	**Hydrocharitaceae** Waterweeds	G4G5	S1			SENSITIVE	3	Wetland/Riparian (Shallow water)
			Species verified in these Counties: Beaverhead, Glacier, Liberty, Phillips, Stillwater **State Rank Reason:** Rare in Montana, where it is currently known from a few widely scattered locations across the state.						
Elymus flavescens Sand Wildrye	**Leymus flavescens**	**Poaceae** Grasses	G4	S1			SENSITIVE	2	Sandy sites
			Species verified in these Counties: Beaverhead **State Rank Reason:** Sand wildrye occurs at the edge of its range in Montana, where it is known from one small population on private land in the Centennial Valley sandhills. It requires early successional sandy habitats, which are localized in sand deposition areas of the dunes. This habitat is at risk from dune succession and stabilization that can result from suppression of natural disturbance regimes such as fire and grazing. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Elymus innovatus Northern Wildrye	**Leymus innovatus**	**Poaceae** Grasses	G5	S1		SENSITIVE		3	Wetland/Riparian (mesic openings /streambanks, low-elevation)
			Species verified in these Counties: Cascade, Glacier, Pondera, Teton **State Rank Reason:** Rare in Montana, where it is currently known from a few scattered sites east of the Divide.						
Epipactis gigantea Giant Helleborine		**Orchidaceae** Orchids	G4	S2		SENSITIVE		2	Wetland/Riparian
			Species verified in these Counties: Carbon, Flathead, Granite, Lake, Madison, Powell, Sanders, Teton **State Rank Reason:** Known from almost two dozen extant occurrences across western and southern Montana where it is associated with seeps and springs, often with thermal waters. National Forest, state and private lands all host significant populations. The species is primarily vulnerable to hydrologic changes and development. Threats: Low to Moderate Short- and Long-term Trends: Unknown Intrinsic Vulnerability: High						
Eriophorum callitrix Sheathed Cotton-grass		**Cyperaceae** Sedges	G5	S1				3	Alpine
			Species verified in these Counties: Carbon **State Rank Reason:** Rare in Montana, where it is has been documented only from the Beartooth Plateau.						
Eriophorum gracile Slender Cottongrass		**Cyperaceae** Sedges	G5	S2		SENSITIVE		2	Fens
			Species verified in these Counties: Flathead, Lake, Lincoln, Missoula, Powell **State Rank Reason:** Known from a very few large populations, several smaller populations and a half dozen historical or poorly documented locations. Populations occur on a mix of federal, state and private ownerships in northwest Montana at low to moderate elevations. Populations are vulnerable to activities such as development or timber harvesting that may alter the hydrology of occupied sites. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Festuca viviparoidea Northern Fescue	**Festuca vivipara, Festuca ovina var. vivipara**	**Poaceae** Grasses	G4G5	S1				3	Alpine
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Rare in Montana, where it is only know from a few sites in Flathead and Glacier Counties.						

Goodyera repens Northern Rattlesnake-plantain		**Orchidaceae** Orchids	G5	S2S3		SENSITIVE		2	Mesic Forest
			Species verified in these Counties: Fergus, Flathead, Judith Basin, Meagher, Wheatland **State Rank Reason:** A widespread species that is found in Montana in the Little Belt and Big Snowy Mountains and at one site in Glacier National Park. The species occupies moist, montane forests with a mossy understory. Occurrences are vulnerable to disturbances that open or reduce the canopy such as timber harvesting and fire. Monitoring of the species in the Little Belt Mountains have documented negative impacts associated with both disturbances. However, Goodyera repens is known from approximately 20 moderate to large-sized populations and approximately a dozen smaller occurrences. If additional survey and monitoring of the species shows stable population numbers and little to no negative impacts from human-caused disturbances than a change in rank to S3 would be appropriate. Threats: Low Long-Term Trends: Unknown Short-Term trends: Stable? Intrinsic Vulnerability: Moderate						
Hemicarpha drummondii Drummond's Hemicarpha	**Lipocarpha drummondii**	**Cyperaceae** Sedges	G4G5	SH					Sandy soil (Moist)
			Species verified in these Counties: **State Rank Reason:** Known in Montana from a 1941 Collection by W. E. Booth near Fromberg.						
Heteranthera dubia Water Star-grass		**Pontederiaceae** Water-hyacinth Family	G5	S1		SENSITIVE		2	Aquatic
			Species verified in these Counties: Flathead, Sanders **State Rank Reason:** Three occurrences known in Montana, two are moderate-sized populations and the third is of undocumented size. One population is adjacent to a campground and related human activity at this site may have extirpated the population. All sites are vulnerable to changes in hydrology and recreational impacts.						
Juncus acuminatus Tapered Rush		**Juncaceae** Rushes	G5	S1				2	Wetland/Riparian
			Species verified in these Counties: Teton **State Rank Reason:** Rare in Montana. Only known in the state from one wetland site in Teton County.						
Juncus albescens Three-flowered Rush	**Juncus triglumis var. albescens**	**Juncaceae** Rushes	G5	S1				3	Alpine
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Rare in Montana. Only known in the state from a few, moist, alpine sites in Glacier National Park.						
Juncus covillei Coville's Rush		**Juncaceae** Rushes	G5	S1					Wetland/Riparian
			Species verified in these Counties: Mineral, Missoula, Ravalli, Sweet Grass **State Rank Reason:** Rare and peripheral in Montana. Currently known from approximately a half-dozen widely scattered wetland/riparian sites in the mountainous portion of the state.						
Juncus hallii Hall's Rush		**Juncaceae** Rushes	G4G5	S2		SENSITIVE		3	Meadows and Parklands (Moist, Subalpine)
			Species verified in these Counties: Beaverhead, Broadwater, Jefferson, Madison, Meagher, Powell, Silver Bow						
Kobresia sibirica Large-fruited Kobresia	**Kobresia macrocarpa**	**Cyperaceae** Sedges	G5	S1				3	Alpine
			Species verified in these Counties: Carbon **State Rank Reason:** Rare in Montana. Only known in the state from a small area of the Beartooth Plateau.						
Kobresia simpliciuscula Simple Kobresia		**Cyperaceae** Sedges	G5	S2			SENSITIVE	3	Alpine
			Species verified in these Counties: Beaverhead, Carbon, Glacier, Granite, Park, Teton **State Rank Reason:** Rare in Montana, where it is known from over a dozen montane wetlands to mesic, alpine sites scattered across the mountainous portion of the state.						
Lilaea scilloides Flowering Quillwort		**Juncaginaceae** Arrow-grass family	G5?	SH					Wetland/Riparian
			Species verified in these Counties: Lake **State Rank Reason:** Known in Montana from a 1933 collection by C. L. Hitchcock about 2 miles southeast of Charlo and a 1965 collection about 1.5 miles southwest of Ninepipe Reservoir.						
Liparis loeselii Loesel's Twayblade		**Orchidaceae** Orchids	G5	S1S2		SENSITIVE		3	Wetland/Riparian
			Species verified in these Counties: Lake **State Rank Reason:** Known from seven occurrences clustered in a small area of the Swan Valley. Susceptible to changes in hydrology that could result from surrounding development or timber harvesting. May also be susceptible to impacts from fire. Threats: Low Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate						
Listera borealis		**Orchidaceae**	G4	S2?					Wetland/Riparian

Northern twayblade		Orchids	**Species verified in these Counties:** Granite, Lewis and Clark, Madison, Mineral, Park, Powell, Ravalli **State Rank Reason:** Few occurrences documented for the state. It appears likely that this species is more abundant than current observations document. Habitat for the species does not appear to be uncommon and the species is probably overlooked and under-collected. In addition to the mapped occurrences, 1 un-mapped and unverified specimen collection is supposedly at MONT: R. Dorn #797 30 August 1968. 6600' Beaverhead Co. Red Rock Lake Refuge T14S R1W S22 SE1/4. Spruce stand with Cornus, Pyrola, Equisteum. Rare.					
Maianthemum canadense Wild Lily-of-the-valley		**Liliaceae** Lillies	G5	SH					Forests (Riparian)
			Species verified in these Counties: Carter **State Rank Reason:** Documented for Montana from one 1948 collection by W. E. Booth near Alzada.						
Najas guadalupensis Guadalupe Water-nymph		**Najadaceae** Water-nymph Family	G5	S1					Aquatic
			Species verified in these Counties: Cascade, Flathead, Lake, Ravalli **State Rank Reason:** Rare. Currently documented from approximately a half-dozen fresh water sites in the western and central portions of the state.						
Phippsia algida Ice Grass		**Poaceae** Grasses	G5	S1				3	Alpine
			Species verified in these Counties: Carbon, Stillwater **State Rank Reason:** Rare in Montana, where it has been documented from only a few sites on the Beartooth Plateau.						
Poa laxa ssp. banffiana Banff Loose-flowered Bluegrass		**Poaceae** Grasses	G5?T1	S1					Alpine
			Species verified in these Counties: Glacier						
Potamogeton obtusifolius Blunt-leaved Pondweed		**Potamogetonaceae** Pondweeds	G5	S2		SENSITIVE		2	Aquatic
			Species verified in these Counties: Flathead, Glacier, Lake, Missoula **State Rank Reason:** Known from approximately a dozen occurrences in northwest Montana. Most occurrences are moderate to large-size populations and occur in valley and foothill locations in a variety of federal, state, and private ownerships. A few populations are on lands managed specifically for their conservation value. Some populations are vulnerable to impacts associated with development, recreation and increased sediment and nutrient loads. Threats: Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate					
Puccinellia lemmonii Lemmon's Alkaligrass		**Poaceae** Grasses	G4	S1			SENSITIVE	2	Wetland/Riparian
			Species verified in these Counties: Beaverhead **State Rank Reason:** Only two known occurrences in Montana, both in Beaverhead County on BLM and State Trust Lands. At least one site is actively grazed, though its susceptibility and response to such activity is uncertain. Threats: Low-Moderate Short- and Long-Term trends: Unknown Intrinsic Vulnerability: Moderate					
Scheuchzeria palustris Pod Grass		**Scheuchzeriaceae** Pod-grasses	G5	S2		SENSITIVE		2	Wetland/Riparian
			Species verified in these Counties: Flathead, Granite, Lake, Lincoln, Missoula **State Rank Reason:** Known from over two dozen sites, many of which are healthy populations. Another 6 locations are known only from historical surveys or collections, or from sites that need additional surveys to document the populations. The majority of populations are on National Forest lands with state trust., private and National Park lands supporting the remaining occurrences. Populations are vulnerable to activities that change the hydrology of the occupied fen and wetland habitats. Invasive species such as Phalaris arundinacea may pose a threat to some populations. Threats: Low Short- and Long-Term Trends Intrinsic Vulnerability: Moderate					
Schoenoplectus heterochaetus Slender Bulrush	**Scirpus heterochaetus**	**Cyperaceae** Sedges	G5	S1			SENSITIVE		Wetland/Riparian
			Species verified in these Counties: Lake, Phillips						
Schoenoplectus subterminalis Water Bulrush	**Scirpus subterminalis**	**Cyperaceae** Sedges	G4G5	S2		SENSITIVE		2	Wetland/Riparian
			Species verified in these Counties: Flathead, Lake, Lewis and Clark, Lincoln, Missoula **State Rank Reason:** Over a dozen known occurrences in western Montana, most of which are moderate to large-sized populations primarily on National Forest lands. Populations are potentially vulnerable to changes in water levels or increases in nutrient and sediment loads associated with development, agriculture or adjacent timber harvesting.					

			Threats: Low-Moderate Short- and Long-Term Trends: Unknown Intrinsic Vulnerability: Moderate					
Sisyrinchium septentrionale Northern Blue-eyed-grass		**Iridaceae** Irises	G3G4	S1				3	Wetland/Riparian
			Species verified in these Counties: Sheridan **State Rank Reason:** Rare in Montana, where it is known from one prairie site in the northeastern corner of the state.						
Sphenopholis intermedia Slender Wedgegrass	**Sphenopholis obtusata var. major**	**Poaceae** Grasses	G5	S1					Mesic sites (low-elevation)
			Species verified in these Counties: Big Horn, Broadwater, Gallatin						
Spiranthes diluvialis Ute Ladies' Tresses		**Orchidaceae** Orchids	G2	S1	LT			2	Wetland/Riparian
			Species verified in these Counties: Beaverhead, Broadwater, Gallatin, Jefferson, Madison **State Rank Reason:** *Spiranthes diluvialis* is known from only a handful of occurrences in southwest and south-central Montana in the Missouri, Jefferson, Beaverhead, Ruby and Madison River drainages. *S. diluvialis* is restricted in area by specific hydrologic requirements. Many populations have less than 100 individuals, though a couple have over 500 plants. Sites are susceptible to hydrologic changes and weed invasion. Large areas of habitat have been converted to agricultural uses. Livestock grazing is also a common use of these habitats. Two populations occur along highway right-of-ways. Most populations occur on private lands and no occurrences are currently protected or managed for their conservation value.						
Sporobolus compositus Tall Dropseed	**Sporobolus asper**	**Poaceae** Grasses	G5	SH					Forests/Grasslands (open, plains)
			Species verified in these Counties: Carter, Custer **State Rank Reason:** Known in Montana from a 1939 collection near Ekalaka and a 1957 collection from Fort Keogh Livestock and Range Laboratory. Threats: NA Trends: NA						
Sporobolus neglectus Small Dropseed		**Poaceae** Grasses	G5	S1					Grasslands (low-elevation)
			Species verified in these Counties: Gallatin, Sanders, Wheatland **State Rank Reason:** Rare in Montana, where it is known from a few widely scattered sites.						
Stipa lettermanii Letterman's Needlegrass	**Achnatherum lettermanii**	**Poaceae** Grasses	G5	S1					Talus and Grasslands (low-elevation)
			Species verified in these Counties: Beaverhead, Big Horn, Carbon, Madison, Park						
Tofieldia pusilla Small Tofieldia		**Liliaceae** Lillies	G5	S2				3	Alpine
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Very rare in Montana, where it is known from only a very small area in Glacier National Park.						
Trichophorum alpinum Hudson's Bay Bulrush	**Scirpus hudsonianus, Eriophorum alpinum**	**Cyperaceae** Sedges	G5	S1				2	Fens and cold, wet slopes
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Rare in Montana, where it is only known from a few sites in the northwest corner of the state.						
Trichophorum cespitosum Tufted Club-rush	**Scirpus cespitosus**	**Cyperaceae** Sedges	G5	S2		SENSITIVE		3	Fens and wet meadows
			Species verified in these Counties: Beaverhead, Flathead, Glacier, Lake, Lincoln, Powell, Teton **State Rank Reason:** Rare in Montana, where it is currently documented from over a dozen fens and wet meadows in the mountainous portion of western Montana.						
Trichophorum pumilum Rolland's bulrush	**Scirpus pumilus, Scirpus rollandii**	**Cyperaceae** Sedges	G5	S1			SENSITIVE	3	Fens
			Species verified in these Counties: Glacier, Teton **State Rank Reason:** Rare in Montana, where it is currently documented from only a few calcareous fens near the Rocky Mtn Front.						
Veratrum californicum California False-hellebore		**Liliaceae** Lillies	G5	S1		SENSITIVE			Wetland/Riparian
			Species verified in these Counties: Granite, Ravalli **State Rank Reason:** Known from only three extant locations in the state.						
Wolffia columbiana Columbia Water-meal		**Lemnaceae** Duckweeds	G5	S2					Aquatic
			Species verified in these Counties: Flathead, Lake, Missoula, Ravalli						

BRYOPHYTES (BRYOPHYTA)

61 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME		FAMILY (SCIENTIFIC)	GLOBAL	STATE				MNDR THREAT	

COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Aloina brevirostris Aloina moss		**Pottiaceae**	G3G5	S1					
			Species verified in these Counties: Flathead, Lincoln						
Bryum schleicheri Schleicher's bryum moss		**Bryaceae**	G5?	S1					
			Species verified in these Counties: Glacier						
Catoscopium nigritum Black golf club moss		**Catoscopiaceae**	G4G5	S1					
			Species verified in these Counties:						
Cinclidium stygium Cinclidium moss		**Mniaceae**	G5	S1					
			Species verified in these Counties:						
Cynodontium tenellum Cynodontium moss		**Dicranaceae**	G3G5Q	S1					
			Species verified in these Counties:						
Dichodontium olympicum Olympic dichodontium moss		**Dicranaceae**	G3G5	S1					
			Species verified in these Counties:						
Dicranella grevilleana Greville's dicranella moss		**Dicranaceae**	G3G5	S1					
			Species verified in these Counties: Glacier						
Dicranum acutifolium Acuteleaf dicranum moss		**Dicranaceae**	G5?	S1					
			Species verified in these Counties: Ravalli						
Dicranum fragilifolium Fragile leaf dicranum moss		**Dicranaceae**	G4G5	SH					
			Species verified in these Counties: Flathead, Glacier, Lake						
Dicranum spadiceum Dicranum moss		**Dicranaceae**	G5?	SH					
			Species verified in these Counties:						
Distichium inclinatum Incline distichium moss		**Ditrichaceae**	G4G5	SH					
			Species verified in these Counties: Glacier						
Entosthodon rubiginosus Entosthodon moss		**Funariaceae**	G1G3	SH					
			Species verified in these Counties: Cascade						
Eucladium verticillatum Lime-seep Eucladium moss		**Pottiaceae**	G4	S1					
			Species verified in these Counties: Granite, Powell						
Fabronia pusilla Fabronia moss		**Fabroniaceae**	G4G5	S1					
			Species verified in these Counties: Madison						
Fissidens fontanus Fissidens moss		**Fissidentaceae**	G5	S1					
			Species verified in these Counties: Granite						
Grimmia brittoniae Britton's dry rock moss		**Grimmiaceae**	G2	S2		SENSITIVE			
			Species verified in these Counties: Flathead, Sanders						
Grimmia incurva Curved dry rock moss		**Grimmiaceae**	G4G5	S1					
			Species verified in these Counties: Ravalli						
Grimmia mollis Dry rock moss	**Hydrogrimmia mollis**	**Grimmiaceae**	G3G5	SH					
			Species verified in these Counties: Flathead, Glacier						
Hamatocaulis vernicosus		**Amblystegiaceae**	G5	S1					
			Species verified in these Counties:						

Hamatocaulis moss									
Haplodontium macrocarpum Waterfall copper moss	**Mielichhoferia macrocarpa, Bryum porsildii**	**Bryaceae**	G2G3	S1					
			Species verified in these Counties:						
Hennediella heimii Heim's desmatodon moss	**Desmatodon heimii**	**Pottiaceae**	G5	S1					
			Species verified in these Counties: Ravalli						
Hygroamblystegium noterophilum Hygroamblystegium moss		**Amblystegiaceae**	G4	S1					
			Species verified in these Counties:						
Hygrohypnum cochlearifolium Hygrohypnum moss		**Amblystegiaceae**	G4	SH					
			Species verified in these Counties: Lincoln						
Leucolepis acanthoneuron Leucolepis umbrella moss		**Mniaceae**	G4	S1					
			Species verified in these Counties: Lincoln						
Limprichtia revolvens Limprichtia moss	**Drepanocladus revolvens**	**Amblystegiaceae**	G4G5	S1					
			Species verified in these Counties:						
Meesia longiseta Meesia moss		**Meesiaceae**	G4?	S1					
			Species verified in these Counties: Flathead						
Meesia triquetra Meesia moss		**Meesiaceae**	G5	S2		SENSITIVE			
			Species verified in these Counties: Carbon, Flathead, Glacier, Lake, Lincoln, Ravalli, Teton						
Meesia uliginosa Meesia moss		**Meesiaceae**	G4	S1S2					
			Species verified in these Counties: Flathead, Glacier, Lincoln						
Meiotrichum lyallii Lyall's polytrichum moss	**Polytrichum lyallii, Polytrichadelphus lyallii, Polytrichastrum lyallii**	**Polytrichaceae**	GU	S1					
			Species verified in these Counties:						
Myurella tenerrima Myurella moss		**Pterigynandraceae**	G3G4	S1					
			Species verified in these Counties: Glacier						
Neckera douglasii Douglas' neckera moss		**Neckeraceae**	G4	S1					
			Species verified in these Counties: Flathead, Lake						
Orthotrichum praemorsum Orthotrichum moss		**Orthotrichaceae**	G2	S1					
			Species verified in these Counties: Ravalli						
Paludella squarrosa Angled paludella moss		**Meesiaceae**	G3G5	S1S2					
			Species verified in these Counties: Carbon, Flathead, Glacier						
Paraleucobryum enerve Paraleucobryum moss		**Dicranaceae**	G5?	S1					
			Species verified in these Counties: Flathead, Glacier						
Phascum cuspidatum Toothed phascum moss		**Pottiaceae**	G5	S1					
			Species verified in these Counties: Ravalli						
Physcomitrium hookeri Hooker's physcomitrium moss		**Funariaceae**	G2G4	S1					
			Species verified in these Counties:						
Platyhypnidium riparioides Platyhypnidium moss	**Eurhynchium riparioides**	**Brachytheciaceae**	G4	S1					
			Species verified in these Counties: Lincoln						

Porotrichum bigelovii Bigelow's porotrichum moss		**Thamnobryaceae**	G4	S1					
			Species verified in these Counties: Ravalli						
Pseudocalliergon turgescens Pseudocalliergon moss		**Amblystegiaceae**	G3G5	SH					
			Species verified in these Counties: Flathead, Glacier						
Pseudocrossidium obtusulum Pseudocrossidium moss		**Pottiaceae**	GU	S1					
			Species verified in these Counties: Ravalli						
Sarmenthypnum sarmentosum Sarmenthypnum moss	**Calliger on sarmentosum**	**Amblystegiaceae**	G4G5	SH					
			Species verified in these Counties:						
Scorpidium scorpioides Scorpidium moss		**Amblystegiaceae**	G4G5	S2		SENSITIVE			
			Species verified in these Counties: Flathead, Glacier, Lake, Lewis and Clark, Lincoln, Missoula, Teton						
Sphagnum angustifolium Narrowleaf Peatmoss		**Sphagnaceae** Peat Mosses	G5	S2					
			Species verified in these Counties:						
Sphagnum centrale Sphagnum moss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties: Flathead						
Sphagnum compactum Low Peatmoss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties: Granite						
Sphagnum contortum Contorted sphagnum moss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties:						
Sphagnum fimbriatum Fringed Bogmoss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties: Lewis and Clark						
Sphagnum fuscum Brown Peatmoss		**Sphagnaceae** Peat Mosses	G5	S2					
			Species verified in these Counties:						
Sphagnum girgensohnii Girgensohn's Peatmoss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties:						
Sphagnum magellanicum Magellan's Peatmoss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties: Flathead, Missoula, Ravalli						
Sphagnum mendocinum Mendocino Peatmoss		**Sphagnaceae** Peat Mosses	G4	S1					
			Species verified in these Counties: Missoula						
Sphagnum riparium Streamside Sphagnum moss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties: Missoula						
Sphagnum wulfianum Wulf's Peatmoss		**Sphagnaceae** Peat Mosses	G5	S1					
			Species verified in these Counties: Lake						
Stegonia latifolia Wideleaf stegonia moss		**Pottiaceae**	G4G5	S1					
			Species verified in these Counties:						
Syntrichia bartramii Bartram's tortula moss	**Tortula bartramii**	**Pottiaceae**	G2G4	S1					
			Species verified in these Counties: Ravalli						
Syntrichia	**Tortula papillosissima**	**Pottiaceae**	G3G5	S1					

papillosissima			**Species verified in these Counties:** Ravalli, Sanders						
Thamnobryum neckeroides Necker's thamnobryum moss		**Thamnobryaceae**	G4	SH					
			Species verified in these Counties:						
Tortula cernua Desmatodon moss	**Desmatodon cernuus**	**Pottiaceae**	G3G5	SH					
			Species verified in these Counties:						
Tortula norvegica Norwegian tortula moss		**Pottiaceae**	G5	S1					
			Species verified in these Counties: Glacier, Lake, Madison						
Trachybryum megaptilum Trachybryum moss		**Brachytheciaceae**	G4	S1					
			Species verified in these Counties: **State Rank Reason:** Endemic to western North America. In Montana it occurs on the eastern edge of its distribution.						
Warnstorfia exannulata Warnstorfia moss		**Amblystegiaceae**	G5	S1					
			Species verified in these Counties:						

LICHENS (FUNGI)

32 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Arctomia delicatula Delicate Arctomia Lichen		**Arctomiaceae**	GNR	S1					
			Species verified in these Counties:						
Arctoparmelia subcentrifuga Ring Lichen		**Parmeliaceae**	G4G5	S1					
			Species verified in these Counties: Missoula **State Rank Reason:** In Montana known from a few sites in the western and central regions of the state.						
Aspicilia fruticulosa Vagrant Aspicilia Lichen		**Hymeneliaceae**	G3	S1					
			Species verified in these Counties: Carbon **State Rank Reason:** In Montana known from one location in south-central region of the state.						
Cladonia botrytes Wooden Soldiers Lichen		**Cladoniaceae**	G5	S1					
			Species verified in these Counties: Flathead, Lincoln **State Rank Reason:** This species is common northward, but is found sporadically in Montana and east to the Black Hills and south to Colorado.						
Cladonia uncialis Thorn Cladonia Lichen		**Cladoniaceae**	G4G5	S1					
			Species verified in these Counties: Lake **State Rank Reason:** Known to occur at one location in Montana.						
Collema curtisporum Jelly Lichen		**Collemataceae**	G3	S1		SENSITIVE			
			Species verified in these Counties: Flathead, Glacier, Lake, Mineral, Sanders **State Rank Reason:** In Montana this lichen occurs in a few locations and is not always present where habitat appears to be suitable.						
Dactylina ramulosa Frosted Finger Lichen		**Parmeliaceae**	G4G5	S2					
			Species verified in these Counties: Park, Ravalli **State Rank Reason:** In Montana known from several locations in the western and south-central regions.						
Dendriscocaulon umhausense Thorn Lichen		**Lobariaceae**	GNR	SNR					
			Species verified in these Counties: **State Rank Reason:** Known from one location in western Montana.						
Lobaria hallii Gray Lungwort Lichen		**Lobariaceae**	G4?	S2					
			Species verified in these Counties: Flathead, Lake, Lincoln, Missoula, Sanders **State Rank Reason:** Known from several locations in western Montana.						
Lobaria linita Cabbage Lungwort Lichen		**Lobariaceae**	G4G5	S1					
			Species verified in these Counties: Ravalli **State Rank Reason:** Known from very few locations in western Montana.						

Lobaria scrobiculata Textured Lungwort Lichen		**Lobariaceae**	G4	S1				
			Species verified in these Counties: Lake, Mineral **State Rank Reason:** Known from one location in western Montana.					
Melanelia commixta Camouflage Lichen		**Parmeliaceae**	GNR	S1				
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Known from very few locations in northwest Montana.					
Melanelia septentrionalis Northern Camouflage Lichen		**Parmeliaceae**	G3G5	S1				
			Species verified in these Counties: **State Rank Reason:** Montana occurs on the southern edge of this species range, where it has been found occasionally.					
Nodobryoria subdivergens Foxtail Lichen	**Bryoria subdivergens**	**Parmeliaceae**	G2	S1S2		SENSITIVE		
			Species verified in these Counties: Lincoln, Ravalli **State Rank Reason:** Known from several locations in western Montana where its abundance is always sparse.					
Normandina pulchella Elf-ear Lichen		**Verrucariaceae**	G3G5	S1				
			Species verified in these Counties: Missoula, Ravalli **State Rank Reason:** In the Rocky Mountains, this lichen has a spotty distribution. Known in Montana from one location.					
Parmeliella triptophylla Lead Lichen		**Pannariaceae**	G3G5	S1				
			Species verified in these Counties: Glacier, Lake, Missoula, Ravalli **State Rank Reason:** Locally rare when found.					
Peltigera hydrothyria Waterfan Lichen	**Hydrothyria venosa**	**Peltigeraceae**	G4	S1				
			Species verified in these Counties: Missoula, Ravalli **State Rank Reason:** Known from a few sites in western Montana.					
Peltigera pacifica Fringed Pelt Lichen		**Peltigeraceae**	G3	S1				
			Species verified in these Counties: **State Rank Reason:** Known from one location in western Montana, but expected to be more present.					
Pertusaria diluta Wart Lichen		**Pertusariaceae**	GNR	S1				
			Species verified in these Counties: **State Rank Reason:** This species was first recognized in Montana. The Type specimen is from the Cabinet Mountains and is currently the only Montana occurrence.					
Phaeophyscia kairamoi Shadow Lichen		**Physciaceae**	G3G4	S2				
			Species verified in these Counties: Flathead, Lake **State Rank Reason:** This species occurs sporadically in the northern United States and southern Canada and is known from a few locations in western Montana.					
Pseudocyphellaria anomala Netted Specklebelly Lichen		**Lobariaceae**	G2G4	S1				
			Species verified in these Counties: Lake **State Rank Reason:** Known in western Montana from a few locations.					
Ramalina obtusata Hooded Ramalina Lichen		**Ramalinaceae**	G5?	S2				
			Species verified in these Counties: Flathead, Lake, Ravalli **State Rank Reason:** In Montana sporadic occurrences have been found in western Montana.					
Ramalina pollinaria Powdery Twig Lichen		**Ramalinaceae**	G4	S1				
			Species verified in these Counties: Lake **State Rank Reason:** Known in western Montana from several locations.					
Rhizoplaca haydenii Wanderlust Lichen		**Lecanoraceae**	G2G3	S1S2				
			Species verified in these Counties: Beaverhead, Carbon **State Rank Reason:** Known from a few locations in south-central to southeastern Montana. This species is also likely to be found in appropriate habitats in southwestern Montana. Both subspecies are found in Montana: R. haydenii ssp. haydenii and R. haydenii ssp arbuscular.					
Sclerophora amabilis Collared Glass Whiskers Lichen		**Coniocybaceae**	GNR	S1				
			Species verified in these Counties: Lincoln **State Rank Reason:** In Montana known from one location.					
Solorina bispora		**Peltigeraceae**	G3G5	S1S2				

Chocolate Chip Lichen			**Species verified in these Counties:** Beaverhead, Carbon, Flathead, Glacier, Missoula **State Rank Reason:** Known from a few locations in western Montana.					
Solorina octospora Chocolate Chip Lichen		**Peltigeraceae**	G3G5	S1				
			Species verified in these Counties: **State Rank Reason:** In Montana known from one location in the northwest.					
Solorina spongiosa Fringed Chocolate Chip Lichen		**Peltigeraceae**	G4G5	S1S2				
			Species verified in these Counties: Flathead, Lake, Lewis and Clark **State Rank Reason:** Known from a few locations in western and central portions of Montana.					
Sphaerophorus tuckermanii Coral Lichen	**Sphaerophorus globosus var. gracilis**	**Sphaerophoraceae**	G5TNR	S1				
			Species verified in these Counties: **State Rank Reason:** Known from two locations in northwestern Montana.					
Stereocaulon paschale Easter Lichen		**Stereocaulaceae**	G5	S1S2				
			Species verified in these Counties: Lake **State Rank Reason:** Known from a few locations in northwest and south-central Montana.					
Umbilicaria hirsuta Rock Tripe Lichen		**Umbilicariaceae**	G2G4	S1				
			Species verified in these Counties: **State Rank Reason:** This species is apparently rare throughout its range in North America. In Montana it is known from one location.					
Verrucaria kootenaica Speck Lichen		**Verrucariaceae**	G1?	S1S2				
			Species verified in these Counties: Flathead, Lake **State Rank Reason:** Known in western Montana from a few locations.					

Potential Species of Concern
135 Species
All Records (no filtering)

FERNS AND FERN ALLIES (PTERIDOPHYTA)

4 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Botrychium lanceolatum Lanceleaf Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G5	S3?					
			Species verified in these Counties: Deer Lodge, Flathead, Glacier, Granite, Lincoln, Missoula, Park, Sanders **State Rank Reason:** Reported from ~ two dozen sites. Population levels are poorly documented. As this species was not previously tracked in the state, it may be under-reported.						
Botrychium lunaria Common Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G5	S3?					
			Species verified in these Counties: Deer Lodge, Flathead, Glacier, Granite, Lake, Lewis and Clark, Lincoln, Park, Ravalli, Sanders, Teton						
Botrychium minganense Mingan Island Moonwort		**Ophioglossaceae** Adder's-Tongue / Moonworts	G4	S3					
			Species verified in these Counties: Cascade, Flathead, Glacier, Granite, Lake, Lewis and Clark, Lincoln, Mineral, Missoula, Pondera, Powell, Sanders, Teton **State Rank Reason:** Documented from over 90 occurrences in Montana. These are scattered across western and central Montana with the largest concentration occurring in the northwest corner of the state. Population numbers are usually small at each site, numbering in the 10's to occassionally the 100's. A thorough review of the population demographics and risks to the species' viability are needed to document its current state rank.						
Lycopodium alpinum Alpine Clubmoss	**Diphasiastrum alpinum**	**Lycopodiaceae** Club-moss (Lycopod) Family	G5	S3					
			Species verified in these Counties: Lincoln **State Rank Reason:** 15 collections at MONTU from western Montana.						

FLOWERING PLANTS - DICOTS (MAGNOLIOPSIDA)

94 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Agoseris lackschewitzii Pink Agoseris	**Agoseris aurantiaca var. aurantiaca, Agoseris carnea**	**Asteraceae** Aster / Sunflowers	G4	S3					
			Species verified in these Counties:						
Allotropa virgata Candystick		**Monotropaceae** Indian Pipe Family	G4	S3					
			Species verified in these Counties: Beaverhead, Deer Lodge, Granite, Ravalli						
Angelica dawsonii Dawson's Angelica		**Apiaceae** Parsley / Carrot Family	G4	S3					
			Species verified in these Counties: Flathead						
Aquilegia jonesii Jones' Columbine		**Ranunculaceae** Buttercup Family	G4	S3					
			Species verified in these Counties:						
Arenaria kingii King's Arenaria	**Eremogone kingii**	**Caryophyllaceae** Pink Family	G4	S3					
			Species verified in these Counties:						
Artemisia arbuscula Dwarf Sagebrush		**Asteraceae** Aster / Sunflowers	G5	S3					
			Species verified in these Counties:						
Astragalus ceramicus Pottery Milkvetch		**Fabaceae** Pea Family	G4	S3					
			Species verified in these Counties: **State Rank Reason:** Numerous locations indicated for Montana in Barneby's Astragalus monograph. MONT collections from Carter, Dawson, Sheridan counties.						

Astragalus chamaeleuce Ground Milkvetch		**Fabaceae** Pea Family	G5	S3					
			Species verified in these Counties:						
Astragalus hyalinus Summer Milkvetch		**Fabaceae** Pea Family	G4	S3					
			Species verified in these Counties:						
Astragalus kentrophyta var. kentrophyta Spiny Milkvetch		**Fabaceae** Pea Family	G5T4	S3					
			Species verified in these Counties:						
Astragalus lentiginosus var. salinus Sodaville Milkvetch		**Fabaceae** Pea Family	G5T5	S3					
			Species verified in these Counties:						
Astragalus leptaleus Park Milkvetch		**Fabaceae** Pea Family	G4	S3					
			Species verified in these Counties: Beaverhead						
Astragalus plattensis Platte River Milkvetch		**Fabaceae** Pea Family	G5	S3					
			Species verified in these Counties:						
Astragalus platytropis Broad-keeled Milkvetch		**Fabaceae** Pea Family	G5	S3					
			Species verified in these Counties: Beaverhead, Silver Bow						
Atriplex canescens Four-wing Saltbush		**Chenopodiaceae** Goosefoot Family	G5	S3					
			Species verified in these Counties:						
Atriplex suckleyi Suckley's Saltbush	**Atriplex dioica (Nutt.) Macbr. [not Raf.], Endolepis dioica**	**Chenopodiaceae** Goosefoot Family	G4?	S3					
			Species verified in these Counties: **State Rank Reason:** Few collections from Montana, mostly along the Missouri River Breaks. However, this species has weedy tendencies. MONT collections from Valley, McCone Counties.						
Camissonia minor Small-flowered Evening-primrose	**Oenothera minor**	**Onagraceae** Evening-primrose Family	G4	S3					
			Species verified in these Counties:						
Castilleja angustifolia Desert Indian Paintbrush	**Castilleja chromosa**	**Scrophulariaceae** Figwort Family	G5	S3					
			Species verified in these Counties:						
Castilleja flava var. rustica Rustic Indian Paintbrush	**Castilleja rustica**	**Scrophulariaceae** Figwort Family	G4G5T3T4	S3					
			Species verified in these Counties:						
Castilleja occidentalis Western Indian Paintbrush		**Scrophulariaceae** Figwort Family	G5	S3					
			Species verified in these Counties:						
Castilleja pilosa var. longispica Parrot-head Indian Paintbrush	**Castilleja longispica**	**Scrophulariaceae** Figwort Family	G4G5T4	S3					
			Species verified in these Counties:						
Chionophila tweedyi Tweedy Snowlover		**Scrophulariaceae** Figwort Family	G4	S3					
			Species verified in these Counties:						
Chrysosplenium tetrandrum Northern Golden-carpet		**Saxifragaceae** Saxifrage Family	G5	S3					
			Species verified in these Counties: Granite, Ravalli						
Cordylanthus ramosus		**Scrophulariaceae** Figwort Family	G5	S3					
			Species verified in these Counties: Deer Lodge, Granite, Missoula, Powell						

Much-branded Birds-beak								
Cryptantha flavoculata Pale Yellow Cryptantha		**Boraginaceae** Borage Family	G5	S3					
			Species verified in these Counties:						
Cryptantha sobolifera Montana Cryptantha		**Boraginaceae** Borage Family	G4?	S3					
			Species verified in these Counties:						
Cryptantha spiculifera Snake River Cat's-eye		**Boraginaceae** Borage Family	G4?	S3					
			Species verified in these Counties:						
Delphinium bicolor ssp. calcicola Limestone Larkspur		**Ranunculaceae** Buttercup Family	G4G5T3T4	S3S4				3	
			Species verified in these Counties: Beaverhead, Broadwater, Carbon, Jefferson, Lewis and Clark, Madison, Missoula, Silver Bow **State Rank Reason:** A Montana endemic.						
Drosera rotundifolia Roundleaf Sundew		**Droseraceae** Sundew Family	G5	S3S4					Fens
			Species verified in these Counties: Lake **State Rank Reason:** Our most common sundew. Numerous occurrences in fens across western Montana.						
Epilobium suffruticosum Shrubby Willowherb		**Onagraceae** Evening-primrose Family	G5	S3					
			Species verified in these Counties:						
Erigeron gracilis Slender Fleabane		**Asteraceae** Aster / Sunflowers	G4	S3					
			Species verified in these Counties: Beaverhead, Granite, Madison, Park, Silver Bow, Sweet Grass						
Erigeron lanatus Woolly Fleabane		**Asteraceae** Aster / Sunflowers	G3G4	S3					
			Species verified in these Counties: Flathead, Glacier **State Rank Reason:** Only known in Montana from a few occurrences in Glacier National Park, though the high elevation habitat as well as the occurrences all being within the Park boundary greatly diminish the potential for negative impacts. The likelihood of additional occurrences being located appears good.						
Eriogonum brevicaule var. canum Rabbit Buckwheat	**Eriogonum lagopus, Eriogonum pauciflorum var. canum**	**Polygonaceae** Buckwheat Family	G3G4	S3S4				3	
			Species verified in these Counties: **State Rank Reason:** Regional endemic taxa restricted in Montana to the Bighorn Basin/Pryor Mountain Desert area where it is locally abundant in some locality and is a dominant component of some vegetation communities. Threats: Low Short- and Long-Term Trends: Unknown, though likely stable. Intrinsic Vulnerability: Moderate						
Eriogonum pyrolifolium Pyrola-leaved Buckwheat		**Polygonaceae** Buckwheat Family	G4	S3					
			Species verified in these Counties:						
Eriogonum umbellatum var. stellatum Starry Buckwheat	**Eriogonum umbellatum var. ellipticum**	**Polygonaceae** Buckwheat Family	G5T3T5	S3					
			Species verified in these Counties:						
Eritrichium howardii Howard's Forget-me-not		**Boraginaceae** Borage Family	G4	S3					
			Species verified in these Counties:						
Eurybia glauca Gray Aster	**Aster glaucodes, Herrickia glauca**	**Asteraceae** Aster / Sunflowers	G4G5	S3					
			Species verified in these Counties: Carbon						
Gaultheria ovatifolia Slender Wintergreen		**Ericaceae** Heath Family	G5	S3					
			Species verified in these Counties:						
Gentiana fremontii Moss Gentian	**Gentiana aquatica**	**Gentianaceae** Gentians	G4	S3					
			Species verified in these Counties: Beaverhead						
Gentianella	**Gentiana propinqua**	**Gentianaceae**	G5	S3					

propinqua Four-parted Gentian		Gentians	**Species verified in these Counties:** Madison					
Geocaulon lividum Northern Bastard-toadflax	**Comandra lividum**	**Santalaceae** Sandalwood Family	G5	S3				
			Species verified in these Counties:					
Gilia tweedyi Tweedy's Gilia	**Gilia sinuata var. tweedyi**	**Polemoniaceae** Phlox Family	G4G5Q	S3?				
			Species verified in these Counties: **State Rank Reason:** Gilia tweedyi is locally common on the south and west sides of the Pryor Mountains in the drainages of the Bighorn and Clarks Fork of the Yellowstone rivers and is also known from Beaverhead County.					
Hackelia cinerea Gray Stickseed		**Boraginaceae** Borage Family	G4?	S3				
			Species verified in these Counties:					
Halenia deflexa Spurred Gentian		**Gentianaceae** Gentians	G5	S3				
			Species verified in these Counties: Flathead, Lincoln					
Halimolobos virgata Twiggy Halimolobos	**Transberingia virgata, Transberingia bursifolia**	**Brassicaceae** Mustards	G4	S3				
			Species verified in these Counties:					
Hedysarum alpinum Apline Sweet-vetch		**Fabaceae** Pea Family	G5	S3				
			Species verified in these Counties:					
Hymenoxys grandiflora Old-Man-of-the-Mountain	**Tetraneuris grandiflora**	**Asteraceae** Aster / Sunflowers	G4	S3				
			Species verified in these Counties:					
Hymenoxys torreyana Torrey Bitterweed	**Tetraneuris torreyana**	**Asteraceae** Aster / Sunflowers	G4	S3				
			Species verified in these Counties:					
Impatiens ecalcarata Spurless Touch-me-not		**Balsaminaceae** Impatiens	G3G4	S3				
			Species verified in these Counties:					
Ipomopsis pumila Dwarf Ipomopsis	**Gilia pumila**	**Polemoniaceae** Phlox Family	G4	S3				
			Species verified in these Counties: **State Rank Reason:** *Ipomopsis pumila* is locally abundant on the south and west sides of the Pryor Mountains in Carbon County.					
Linanthus nuttallii Nuttall's Linanthus	**Linanthastrum nuttallii, Leptosiphon nuttallii**	**Polemoniaceae** Phlox Family	G5	S3				
			Species verified in these Counties: **State Rank Reason:** Reported as locally common in the Bitterroot Mountains by Lesica & Shelly, 1991.					
Lomatium bicolor Bicolor Biscuitroot		**Apiaceae** Parsley / Carrot Family	G4	S3				
			Species verified in these Counties:					
Lorandersonia linifolia Spearleaf Rabbitbrush	**Chrysothamnus viscidiflorus var. linifolius, Chrysothamnus linifolius**	**Asteraceae** Aster / Sunflowers	G5	S3				
			Species verified in these Counties:					
Madia minima Small-headed Tarweed		**Asteraceae** Aster / Sunflowers	G4	S3				
			Species verified in these Counties: Lincoln					
Mimulus suksdorfii Suksdorf Monkeyflower		**Scrophulariaceae** Figwort Family	G4	S3				
			Species verified in these Counties: Beaverhead, Carbon, Gallatin, Lewis and Clark, Madison, Silver Bow					
Musineon vaginatum Rydberg's Parsley		**Apiaceae** Parsley / Carrot Family	G3G4	S3				
			Species verified in these Counties:					
Orobanche corymbosa Flat-topped Broomrape		**Orobanchaceae** Broomrape Family	G4	S3				
			Species verified in these Counties:					
Pedicularis		**Scrophulariaceae**	G4	S3				

cystopteridifolia Fern-leaved Lousewort		Figwort Family	**Species verified in these Counties:**					
Pedicularis oederi Oeder's Lousewort		**Scrophulariaceae** Figwort Family	G5	S3				
			Species verified in these Counties:					
Pediocactus simpsonii Simpson's Hedgehog Cactus		**Cactaceae** Cactus	G4	S3				
			Species verified in these Counties:					
Penstemon laricifolius Larch-leaf Beardtongue		**Scrophulariaceae** Figwort Family	G4	S3				
			Species verified in these Counties: **State Rank Reason:** In Montana, *Penstemon laricifolius* is known from Carbon County where it is common on the south and west flanks of the Pryor Mountains.					
Penstemon lyallii Lyall Beardtongue		**Scrophulariaceae** Figwort Family	G4	S3				
			Species verified in these Counties: **State Rank Reason:** Numerous collections at MONTU from Powell, Lake, Mineral, Teton, Lewis & Clark, Missoula, Glacier, Flathead, Lincoln counties. Many populations, but populations tend to be small. Probably currently secure in its high elevation, rocky habitats. Regional endemic of NW Montana, N Idaho, SW Alberta and SE BC. Populations of the Rocky Mountains may be morphologically distinct from those of the shining mountains. More study is needed.					
Phacelia glandulosa Glandular Scorpionweed		**Hydrophyllaceae** Waterleaf Family	G4	S3				
			Species verified in these Counties: **State Rank Reason:** Numerous collections at MONT and MONTU. Tends to grow on sparsely vegetated slopes, where it is probably currently secure.					
Phacelia ivesiana var. glandulifera Sticky Scorpion-weed	**Phacelia glandulifera**	**Hydrophyllaceae** Waterleaf Family	G5T5	S3				
			Species verified in these Counties:					
Physocarpus monogynus Mountain Ninebark		**Rosaceae** Rose Family	G4	S3				
			Species verified in these Counties:					
Pinguicula macroceras California Butterwort	**Pinguicula vulgaris var. macroceras**	**Lentibulariaceae** Bladderworts	G5	S3				
			Species verified in these Counties:					
Plantago canescens Hairy Plantain		**Plantaginaceae** Plantain Family	G4G5	S3				
			Species verified in these Counties:					
Plantago tweedyi Tweedy's Plantain		**Plantaginaceae** Plantain Family	G4G5	S3				
			Species verified in these Counties:					
Polygala alba White Milkwort		**Polygalaceae** Milkwort Family	G5	S3S4				
			Species verified in these Counties:					
Prenanthes sagittata Arrow-leaf Rattlesnake-root		**Asteraceae** Aster / Sunflowers	G3G4	S3				
			Species verified in these Counties:					
Romanzoffia sitchensis Sitka Mistmaid		**Hydrophyllaceae** Waterleaf Family	G4	S3				
			Species verified in these Counties: **State Rank Reason:** Only var. sitchensis occurs in Montana. MONTU collections from Lake, Missoula, Ravalli, Glacier, Flathead Counties. Probably not undercollected, but habitat (wet cliffs) is probably secure.					
Rubus ursinus Pacific Blackberry		**Rosaceae** Rose Family	G5	S3				
			Species verified in these Counties:					
Sanicula graveolens Sierra Sanicle		**Apiaceae** Parsley / Carrot Family	G4G5	S3				
			Species verified in these Counties: **State Rank Reason:** Somewhat few collections from 4-5 counties. Rare in Idaho. Disjunct. Populations are usually small.					
Saxifraga cernua Nodding Saxifrage		**Saxifragaceae** Saxifrage Family	G4	S3				
			Species verified in these Counties:					

			State Rank Reason: Numerous collections from Granite, Missoula, Madison, Beaverhead, Glacier, Park, Deerlodge counties. Not particularly rare. Probably currently secure in its high elevation habitats.					
Saxifraga marshallii Marshall Saxifrage		**Saxifragaceae** Saxifrage Family	G5	S3				
			Species verified in these Counties:					
Sedum leibergii Borsch's Stonecrop	**Sedum borschii**	**Crassulaceae** Stonecrops	G4?	S3				
			Species verified in these Counties:					
Senecio debilis Weak Groundsel	**Packera debilis**	**Asteraceae** Aster / Sunflowers	G4	S3				
			Species verified in these Counties:					
Senecio fuscatus Twice-hairy Butterweed	**Senecio lindstroemii, Senecio tundricola, Tephroseris lindstroemii**	**Asteraceae** Aster / Sunflowers	G4	S3				
			Species verified in these Counties:					
Sorbus sitchensis Sitka Mountain-ash		**Rosaceae** Rose Family	G5	S3				
			Species verified in these Counties:					
Stanleya tomentosa Woolly Prince's plume		**Brassicaceae** Mustards	G4	S3				
			Species verified in these Counties:					
Stanleya viridiflora Green Prince's plume		**Brassicaceae** Mustards	G4	S3				
			Species verified in these Counties:					
Stellaria americana American Stitchwort		**Caryophyllaceae** Pink Family	G3G4	S3S4				
			Species verified in these Counties:					
Stenotus lanuginosus var. andersonii Woolly Goldenweed	**Haplopappus lanuginosus ssp. andersonii**	**Asteraceae** Aster / Sunflowers	G5T4?	S3				
			Species verified in these Counties:					
Stenotus multicaulis Many-stem Goldenweed	**Oonopsis multicaulis, Haplopappus multicaulis**	**Asteraceae** Aster / Sunflowers	G4	S3S4				
			Species verified in these Counties: **State Rank Reason:** Though restricted in distribution in Montana to Carter County, it is common in some habitats, including along some roadsides at least on BLM lands. No apparent, substantial threats to the species' viability in the state exist.					
Streptanthella longirostris Streptanthella		**Brassicaceae** Mustards	G5	S3				
			Species verified in these Counties:					
Suksdorfia violacea Violet Suksdorfia		**Saxifragaceae** Saxifrage Family	G4	S3				
			Species verified in these Counties: **State Rank Reason:** Numerous collections at MONTU from Sanders, Flathead, Glacier, Lincoln, Lewis & Clark, Ravalli, Missoula counties. Most populations are small. Grows in low-elevation habitats, often in habitats that are not secure, such as on rock faces along trails. Many of the collections at MONTU are old (>20 years).					
Synthyris missurica Western Mountain kittentails		**Scrophulariaceae** Figwort Family	G4	S3				
			Species verified in these Counties: Ravalli					
Tellima grandiflora Large Fringe-cup		**Saxifragaceae** Saxifrage Family	G5	S3				
			Species verified in these Counties:					
Townsendia incana Hoary Townsend-daisy		**Asteraceae** Aster / Sunflowers	G5	S3				
			Species verified in these Counties:					
Townsendia spathulata Sword Townsend-daisy		**Asteraceae** Aster / Sunflowers	G3	S3S4			3	
			Species verified in these Counties: Beaverhead, Broadwater, Carbon, Madison, Silver Bow **State Rank Reason:** Sword townsendia occurs in limestone areas of southwest and south-central Montana. Overall, The species' viability in the state does not appear to be at risk due in part to its relatively widespread distribution and its overall abundance. The population in the Limestone Hills in Broadwater County may be negatively impacted by proposed mine expansion and military activities.					

Trifolium latifolium Twin Clover		**Fabaceae** Pea Family	G4	S3					
			Species verified in these Counties:						
Trifolium microcephalum Woolly Clover		**Fabaceae** Pea Family	G5	S3					
			Species verified in these Counties:						
Viola renifolia Kidney-leaf White Violet		**Violaceae** Violets	G5	S3					
			Species verified in these Counties: Flathead, Lincoln **State Rank Reason:** Known from several dozen locations in western Montana.						
Wyethia scabra Rough Mule's Ears	**Scabrethia scabra**	**Asteraceae** Aster / Sunflowers	G4	S3					
			Species verified in these Counties:						

FLOWERING PLANTS - MONOCOTS (LILIOPSIDA)

28 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Agrostis borealis Northern Bentgrass	**Agrostis mertensii**	**Poaceae** Grasses	G5	S3					
			Species verified in these Counties: **State Rank Reason:** Few collections, but all are from probably within the Selway-Bitterroot Wilderness. Probably undercollected due to small stature, demure appearance and difficulty of accessing its alpine habitat.						
Allium fibrillum Fringed Onion		**Liliaceae** Lillies	G4	S3					
			Species verified in these Counties: Lincoln, Missoula, Sanders						
Carex capitata Capitate Sedge		**Cyperaceae** Sedges	G5	S3					
			Species verified in these Counties:						
Carex eburnea Ivory Sedge		**Cyperaceae** Sedges	G5	S3					
			Species verified in these Counties: **State Rank Reason:** This plant has been documented as locally common at a variety of wooded habitats in Dawson, Fergus, Flathead and Richland Counties; this indicates a relatively broad geographic range and ecological amplitude within the state, suggesting that it may be more widespread than current documented.						
Carex fuliginosa Short-leaf Sedge	**Carex misandra**	**Cyperaceae** Sedges	G5	S3					
			Species verified in these Counties:						
Carex livida Pale Sedge		**Cyperaceae** Sedges	G5	S3					Fens
			Species verified in these Counties: Flathead, Glacier, Lake, Lewis and Clark, Missoula, Powell, Teton						
Carex magellanica Poor Sedge	**Carex paupercula**	**Cyperaceae** Sedges	G5	S3					Fens
			Species verified in these Counties: Flathead, Lincoln						
Carex neurophora Alpine Nerved Sedge		**Cyperaceae** Sedges	G4	S3					
			Species verified in these Counties: **State Rank Reason:** MONTU contains over a dozen collections from 8 counties, several of the specimen labels note that the species was common (March 2007). Also observed from a riparian woodland on the Ashland District of the Custer National Forest in southeast Montana. The species is likely overlooked and suitable habitat appears to be common at least in the western half of the state.						
Carex pelocarpa Dusky-seed Sedge	**Carex nova var. pelocarpa**	**Cyperaceae** Sedges	G4G5	S3					
			Species verified in these Counties: **State Rank Reason:** Reported in Montana by Hahn; status uncertain pending verification of specimen records.						
Carex torreyi Torrey's Sedge	**Carex abbreviata**	**Cyperaceae** Sedges	G4	S3					
			Species verified in these Counties:						
Carex vallicola Valley Sedge		**Cyperaceae** Sedges	G5	S3					
			Species verified in these Counties:						
Cypripedium parviflorum Small Yellow Lady's-	**Cypripedium calceolus**	**Orchidaceae** Orchids	G5	S3		SENSITIVE		2	
			Species verified in these Counties: Flathead, Gallatin, Granite, Jefferson, Judith Basin, Lake, Lewis and Clark, Lincoln, Missoula, Pondera, Stillwater, Sweet Grass, Teton						

slipper			**State Rank Reason:** Many occurrences known from the western half of the state, including a dozen or so historical or poorly documented sites. Many occurrences have small population numbers, though approximately two dozen occurrences are moderate to large populations. Populations occur on variety of federal, state and private ownerships with varied land uses and management. A variety of land uses and activities, including development, livestock grazing and timber harvesting may have detrimental impacts to populations. However, yellow lady's-slipper appears to be tolerant to some disturbances at low levels and the number of populations scattered over a wide area reduces the risk to the species. A loss of populations or a significant decline in numbers may warrant a re-listing as a Species of Concern in Montana, and populations should continue to be monitored on a semi-regular basis. Moderate to large occurrences should be managed to maintain habitat and viable population numbers.						
Dichanthelium wilcoxianum Wilcox's Panic Grass	**Dichanthelium oligosanthes var. wilcoxianum, Panicum wilcoxianum**	**Poaceae** Grasses	G5	S3					
			Species verified in these Counties:						
Eriophorum viridicarinatum Green-keeled Cottonsedge		**Cyperaceae** Sedges	G5	S3					
			Species verified in these Counties: Flathead, Lake, Lincoln, Missoula						
Erythronium grandiflorum var. candidum White Glacier Lily		**Liliaceae** Lillies	G5T3T4	S3					
			Species verified in these Counties:						
Hierochloe hirta Northern Sweet Grass	**Hierochloe odorata [misapplied], Anthoxanthum hirtum**	**Poaceae** Grasses	G5	S3					
			Species verified in these Counties:						
Juncus biglumis Two-flowered Rush		**Juncaceae** Rushes	G5	S3					
			Species verified in these Counties:						
Juncus castaneus Chestnut Rush		**Juncaceae** Rushes	G5	S3					
			Species verified in these Counties:						
Juncus nevadensis Nevada Rush		**Juncaceae** Rushes	G5	S3					
			Species verified in these Counties:						
Lilium philadelphicum Wood Lily		**Liliaceae** Lillies	G5	S3					
			Species verified in these Counties: Lincoln						
Muhlenbergia andina Foxtail Muhly		**Poaceae** Grasses	G4	S3					
			Species verified in these Counties:						
Muhlenbergia minutissima Annual Muhly		**Poaceae** Grasses	G5	S3					
			Species verified in these Counties:						
Muhlenbergia racemosa Marsh Muhly		**Poaceae** Grasses	G5	S3					
			Species verified in these Counties:						
Najas flexilis Slender Naiad		**Najadaceae** Water-nymph Family	G5	S3					
			Species verified in these Counties:						
Oryzopsis contracta Contracted Indian Ricegrass	**Achnatherum contractum, Oryzopsis hymenoides var. contracta**	**Poaceae** Grasses	G3G4	S3					
			Species verified in these Counties:						
Poa lettermanii Letterman's Bluegrass		**Poaceae** Grasses	G4	S3					
			Species verified in these Counties: **State Rank Reason:** Collections at MONTU from DeerLodge, Ravalli, Silver Bow counties in the Anaconda-Pintler, Butte Highlands and Beartooth Mts. Many collections recent. >10 collections. Probably undercollected due to minute stature and demure appearance and because it grows at high alpine, inaccessible sites.						

			Probably currently secure, though climate change may result in the loss of populations. Its status should be reviewed periodically.							
Scirpus nevadensis Nevada Bulrush	**Amphiscirpus nevadensis**	**Cyperaceae** Sedges	G4	S3						
			Species verified in these Counties:							
Scirpus pallidus Pale Bulrush	**Scirpus atrovirens var. pallidus**	**Cyperaceae** Sedges	G5	S3						
			Species verified in these Counties:							

LICHENS (FUNGI)

9 SPECIES
ALL RECORDS (NO FILTERING)

SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	MNPS THREAT CATEGORY	HABITAT
Brigantiaea praetermissa Brick-spored Firedot Lichen		**Brigantiaceae**	GNR	S2S3					
			Species verified in these Counties: Lake **State Rank Reason:** The type specimen is from Sanders County. This lichen is considered uncommon in western Montana and widely scattered in the Pacific Northwest.						
Cetraria sepincola Chestnut Wrinkle-Lichen	**Tuckermannopsis sepincola**	**Parmeliaceae**	G5	S2S3					
			Species verified in these Counties: Flathead, Lake, Madison **State Rank Reason:** Known from many locations, associated with bogs, in western Montana.						
Evernia divaricata Mountain Oakmoss Lichen		**Parmeliaceae**	G4G5	S1S2					
			Species verified in these Counties: Carbon, Lake, Missoula **State Rank Reason:** Populations have a very spotty distribution in Montana.						
Parmelia fraudans Shield Lichen		**Parmeliaceae**	G4G5	S1					
			Species verified in these Counties: **State Rank Reason:** Rare in the Pacific Northwest (McCune and Goward 2009); Infrequently collected in Montana and adjacent states.						
Platismatia herrei Tattered Rag Lichen		**Parmeliaceae**	G3G5	S1					
			Species verified in these Counties: **State Rank Reason:** Known from a few locations in northwestern Montana.						
Platismatia stenophylla Ribbon Rag Lichen		**Parmeliaceae**	G2G4	S1					
			Species verified in these Counties: Lake, Ravalli **State Rank Reason:** Known from a few locations in western Montana.						
Psora rubiformis Scale Lichen		**Psoraceae**	G3G5	S1S2					
			Species verified in these Counties: Flathead, Glacier, Lake, Madison, Rosebud **State Rank Reason:** In Montana widely scattered populations have been found in northwest, southwest, and southeast.						
Ramalina subleptocarpha Slit-rimmed Ramalina Lichen		**Ramalinaceae**	G3G5	S1					
			Species verified in these Counties: Lake **State Rank Reason:** Known from a few locations in western Montana.						
Umbilicaria havaasii Rock Tripe Lichen		**Umbilicariaceae**	G3	S1					
			Species verified in these Counties: Flathead, Ravalli **State Rank Reason:** Known from a few locations in western Montana. Montana occurs on the eastern edge of this species range.						

ADDITIONS TO STATEWIDE LIST

SPECIES	DATE	NOTES
Penstemon humilis Low Beardtongue	12/16/2010	Known in Montana from 1 collection from Beaverhead County
Douglasia conservatorum Bloom Peak Douglasia	3/16/2010	Described as a new species in 2010 based on a single location along the Idaho/Montana border.
Senecio elmeri Elmer's Ragwort	10/26/2009	Senecio elmeri is the correct identity for the single Montana location of what was previously and incorrectly called Senecio spribillei.
Physaria ludoviciana Silver Bladderpod	6/8/2009	Restricted in Montana to sandy sites in the extreme eastern portion of the state.
Botrychium adnatum Adnate Moonwort	2/1/2008	A recently described species which is globally rare and recently discovered in northwest Montana.
Botrychium gallicomontanum Frenchman's Bluff Moonwort	2/1/2008	A recently described species which is globally rare and recently discovered in northwest Montana.
Botrychium michiganense Michigan Moonwort	2/1/2008	A recently described species which is globally rare and recently discovered in northwest Montana.
Botrychium tunux Moosewort	2/1/2008	A recently described species which is globally rare and recently discovered in northwest Montana.
Botrychium yaaxudakeit Yakutat Moonwort	2/1/2008	A recently described species which is globally rare and recently discovered in northwest Montana.
Delphinium burkei Meadow Larkspur	2/1/2008	Rare. Currently known from a few locations in western Montana in mesic meadows and grasslands.
Castilleja nivea Snow Indian Paintbrush	12/14/2007	Rare. Currently known from only a few collections from sw and south-central Montana mountain ranges. Most of these collections were made more than 30 years ago.
Cirsium pulcherrimum Wyoming Thistle	12/15/2006	
Botrychium montanum Mountain Moonwort	6/1/2006	
Erigeron allocotus Big Horn Fleabane	6/1/2006	
Draba daviesiae Bitterroot Draba	6/1/2006	
Ipomoea leptophylla Bush morning-glory	6/1/2006	
Penstemon caryi Cary's Beardtongue	6/1/2006	
Cardamine rupicola Cliff Toothwort	6/1/2006	
Polygonum polygaloides ssp. confertiflorum Dense-flower Knotweed	6/1/2006	
Senecio eremophilus Desert Groundsel	6/1/2006	
Physaria klausii Divide Bladderpod	6/1/2006	
Erigeron flabellifolius Fan-leaved Fleabane	6/1/2006	
Collomia debilis var.	6/1/2006	

camporum Flexible Collomia		
Castilleja crista-galli Greater Red Indian Paintbrush	6/1/2006	
Oxytropis lagopus var. conjugens Hare's-foot Locoweed	6/1/2006	
Delphinium bicolor ssp. calcicola Limestone Larkspur	6/1/2006	
Psoralea hypogaea Little Indian Breadroot	6/1/2006	
Camissonia subacaulis Long-leaf Evening-primrose	6/1/2006	
Cirsium longistylum Long-styled Thistle	6/1/2006	
Synthyris canbyi Mission Mountain kittentails	6/1/2006	
Brickellia oblongifolia Mojave brickellbush	6/1/2006	
Eriogonum capistratum var. muhlickii Muhlick's Buckwheat	6/1/2006	
Townsendia nuttallii Nuttall's Townsend-daisy	6/1/2006	
Erigeron parryi Parry's Fleabane	6/1/2006	
Pedicularis contorta var. ctenophora Pink Coil-beaked Lousewort	6/1/2006	
Eriogonum brevicaule var. canum Rabbit Buckwheat	6/1/2006	
Eriogonum soliceps Railroad Canyon Wild Buckwheat	6/1/2006	
Sphaeromeria capitata Rock-tansy	6/1/2006	
Physaria saximontana var. dentata Rocky Mountain Twinpod	6/1/2006	
Pedicularis crenulata Scallop-leaf Lousewort	6/1/2006	
Pedicularis contorta var. rubicunda Selway Coil-beaked Lousewort	6/1/2006	
Castilleja gracillima Slender Indian Paintbrush	6/1/2006	
Townsendia spathulata Sword Townsend-daisy	6/1/2006	
Draba crassa Thick-leaf Whitlow-grass	6/1/2006	

Penstemon flavescens Yellow Beardtongue	6/1/2006	
Calamagrostis tweedyi Cascade reedgrass	6/1/2006	
Listera borealis Northern twayblade	6/1/2006	
Senecio spribillei Cabinet Mountains Groundsel	4/1/2003	
Papaver pygmaeum Alpine Glacier Poppy	6/1/2001	
Salix cascadensis Cascades Willow	6/1/2001	
Githopsis specularioides Common Blue-cup	6/1/2001	
Physaria douglasii Douglas Bladderpod	6/1/2001	
Viola selkirkii Great-spurred Violet	6/1/2001	
Astragalus racemosus var. racemosus Raceme Milkvetch	6/1/2001	
Cryptantha humilis Round-headed Cryptantha	6/1/2001	
Mimulus ringens Square-stem Monkeyflower	6/1/2001	
Carex chalciolepis Copper-scale Sedge	6/1/2001	Previously referred to as C. chalciolepis
Carex lacustris Lake-bank Sedge	6/1/2001	
Acorus americanus Sweetflag	6/1/2001	
Botrychium pallidum Pale Moonwort	3/1/1999	
Ribes velutinum Desert Goosebery	3/1/1999	
Balsamorhiza hookeri Hooker's Balsamroot	3/1/1999	
Alnus rubra Red Alder	3/1/1999	
Erigeron tener Slender Fleabane	3/1/1999	
Mimulus ampliatus Stalk-leaved Monkeyflower	3/1/1999	Previously referred to as M. patulus
Ribes laxiflorum Trailing Black Currant	3/1/1999	
Puccinellia lemmonii Lemmon's Alkaligrass	3/1/1999	
Sisyrinchium septentrionale Northern Blue-eyed-grass	3/1/1999	
Carex pallescens	3/1/1999	

Palish Sedge		
Lycopodium sitchense Alaskan Clubmoss	6/1/1997	
Botrychium campestre Prairie Moonwort	6/1/1997	
Botrychium pedunculosum Stalked Moonwort	6/1/1997	
Eriogonum visheri Visher's Buckwheat	6/1/1997	
Carex chalciolepis Copper-scale Sedge	6/1/1997	Previously referred to as C. chalciolepis
Carex nelsonii Nelson's Sedge	6/1/1997	
Carex vaginata Sheathed Sedge	6/1/1997	
Carex norvegica ssp. inserrulata Toothed Scandinavian Sedge	6/1/1997	
Evax prolifera Big-head Evax	5/1/1996	
Potentilla hyparctica Low Arctic Cinquefoil	5/1/1996	
Elatine brachysperma Short-seeded Water-wort	5/1/1996	
Eriophorum viridicarinatum Green-keeled Cottonsedge	5/1/1996	
Carex prairea Prairie Sedge	5/1/1996	
Spiranthes diluvialis Ute Ladies' Tresses	5/1/1996	
Botrychium lineare Linearleaf Moonwort	5/1/1995	
Arabis demissa var. languida Daggett Rockcress	5/1/1995	
Physaria brassicoides Double Bladderpod	5/1/1995	
Heterotheca villosa var. depressa Low Golden Aster	5/1/1995	
Lomatogonium rotatum Marsh Felwort	5/1/1995	
Primula incana Mealy Primrose	5/1/1995	
Lomatium nuttallii Nuttall Desert-parsley	5/1/1995	
Asclepias ovalifolia Ovalleaf Milkweed	5/1/1995	
Lesquerella paysonii Payson Bladderpod	5/1/1995	
Eustoma grandiflorum	5/1/1995	

Showy Prairie-gentian		
Gilia inconspicua Shy Gilia	5/1/1995	
Gymnosteris parvula Small-flower Gymnosteris	5/1/1995	
Asclepias incarnata Swamp Milkweed	5/1/1995	
Poa laxa ssp. banffiana Banff Loose-flowered Bluegrass	5/1/1995	
Trisetum x orthochaetum Missoula County Oats	5/1/1995	
Scirpus pendulus Pendulous Bulrush	5/1/1995	
Poa arnowiae Short-leaved Bluegrass	5/1/1995	Previously called P. curta
Eriophorum gracile Slender Cottongrass	5/1/1995	
Botrychium ascendens Upward-lobed Moonwort	5/1/1994	
Pyrrocoma carthamoides var. subsquarrosa Beartooth Large-flowered Goldenweed	5/1/1994	
Kalmia polifolia Bog Laurel	5/1/1994	Previously and incorrectly referred to as K. occidentalis
Physalis heterophylla Clammy Ground-cherry	5/1/1994	
Senecio pauciflorus Few-flowered Butterweed	5/1/1994	
Penstemon globosus Globe Beardtongue	5/1/1994	
Stellaria jamesiana James Stitchwort	5/1/1994	
Delphinium bicolor ssp. calcicola Limestone Larkspur	5/1/1994	Referrable to D. bicolor ssp. novum prior to 1995
Townsendia nuttallii Nuttall's Townsend-daisy	5/1/1994	
Cryptantha humilis Round-headed Cryptantha	5/1/1994	
Townsendia leptotes Slender Townsend-daisy	5/1/1994	
Ipomopsis minutiflora Small-flower Standing-cypress	5/1/1994	
Lomatium attenuatum Taper-tip Desert-parsley	5/1/1994	
Erigeron bellidiastrum Western Fleabane	5/1/1994	
Physaria didymocarpa var. lanata Woolly Twinpod	5/1/1994	

Saxifraga hirculus Yellow Marsh Saxifrage	5/1/1994	
Carex luzulina var. atropurpurea Black and Purple Sedge	5/1/1994	
Oryzopsis contracta Contracted Indian Ricegrass	5/1/1994	
Scheuchzeria palustris Pod Grass	5/1/1994	
Cyperus erythrorhizos Red-root Flatsedge	5/1/1994	
Eriophorum scheuchzeri Scheuchzer Cotton-grass	5/1/1994	
Primula alcalina Alkali Primrose	4/1/1993	
Papaver pygmaeum Alpine Glacier Poppy	4/1/1993	
Elatine americana American Water-wort	4/1/1993	
Draba daviesiae Bitterroot Draba	4/1/1993	
Sphaeromeria argentea Chicken-sage	4/1/1993	
Cardamine rupicola Cliff Toothwort	4/1/1993	
Oxytropis campestris var. columbiana Columbia Locoweed	4/1/1993	
Erigeron flabellifolius Fan-leaved Fleabane	4/1/1993	
Vernonia fasciculata ssp. corymbosa Fascicled Ironweed	4/1/1993	
Cuscuta pentagona Field Dodder	4/1/1993	
Mimulus glabratus var. fremontii Glabrous Monkeyflower	4/1/1993	
Zizia aurea Golden Alexanders	4/1/1993	
Oxytropis lagopus var. conjugens Hare's-foot Locoweed	4/1/1993	
Cymopterus hendersonii Henderson's Wavewing	4/1/1993	
Penstemon grandiflorus Large Flowered Beardtongue	4/1/1993	
Braya humilis Low Braya	4/1/1993	
Viguiera multiflora Many-flowered Viguiera	4/1/1993	

Stenotus multicaulis Many-stem Goldenweed	4/1/1993	
Cryptantha scoparia Miner's Candle	4/1/1993	
Synthyris canbyi Mission Mountain kittentails	4/1/1993	
Ribes missouriense Missouri Gooseberry	4/1/1993	
Nama densum Nama	4/1/1993	
Oxytropis deflexa var. foliolosa Nodding Locoweed	4/1/1993	
Eriogonum ovalifolium var. ovalifolium Oval-leaf Buckwheat	4/1/1993	Previously referred to as E. ovalifolium var. nevadense
Oxytropis parryi Parry's Locoweed	4/1/1993	
Physalis hederifolia var. comata Prairie Ground-cherry	4/1/1993	
Physalis pumila ssp. hispida Prairie Ground-cherry	4/1/1993	Previously referred to as P. virginiana var. hispida
Halimolobos perplexa var. lemhiensis Puzzling Rockcress	4/1/1993	
Eriogonum brevicaule var. canum Rabbit Buckwheat	4/1/1993	E. lagopus
Sphaeromeria capitata Rock-tansy	4/1/1993	
Physaria saximontana var. dentata Rocky Mountain Twinpod	4/1/1993	
Draba globosa Round-fruited Draba	4/1/1993	
Claytonia arenicola Sand Springbeauty	4/1/1993	
Pedicularis contorta var. rubicunda Selway Coil-beaked Lousewort	4/1/1993	
Mimulus breviflorus Short-flowered Monkeyflower	4/1/1993	
Pediocactus simpsonii Simpson's Hedgehog Cactus	4/1/1993	
Camissonia parvula Small Camissonia	4/1/1993	
Eriogonum salsuginosum Smooth Buckwheat	4/1/1993	
Ribes hirtellum Smooth Gooseberry	4/1/1993	

Chenopodium subglabrum Smooth Goosefoot	4/1/1993	
Solidago velutina Three-nerved Goldenrod	4/1/1993	
Halimolobos virgata Twiggy Halimolobos	4/1/1993	
Symphyotrichum lanceolatum White Panicle Aster	4/1/1993	Previously referred to as Aster simplex var. ramosissimus
Polygonum polygaloides White-margin Knotweed	4/1/1993	
Penstemon flavescens Yellow Beardtongue	4/1/1993	
Muhlenbergia minutissima Annual Muhly	4/1/1993	
Hemicarpha drummondii Drummond's Hemicarpha	4/1/1993	
Carex rostrata Glaucus Beaked Sedge	4/1/1993	
Phippsia algida Ice Grass	4/1/1993	
Carex eburnea Ivory Sedge	4/1/1993	
Stipa lettermanii Letterman's Needlegrass	4/1/1993	
Liparis loeselii Loesel's Twayblade	4/1/1993	
Trisetum x orthochaetum Missoula County Oats	4/1/1993	
Agrostis borealis Northern Bentgrass	4/1/1993	
Scirpus pallidus Pale Bulrush	4/1/1993	
Eriophorum callitrix Sheathed Cotton-grass	4/1/1993	
Carex tincta Slender Sedge	4/1/1993	
Acorus americanus Sweetflag	4/1/1993	
Juncus triglumis Three-flowered Rush	4/1/1993	
Stipa thurberiana Thurber's Needlegrass	4/1/1993	
Dichanthelium wilcoxianum Wilcox's Panic Grass	4/1/1993	

SPECIES REMOVED FROM STATEWIDE LIST

SPECIES	DATE	NOTES
Penstemon attenuatus var. militaris Taper-leaved Beardtongue	10/6/2010	Reports of this variety in Montana were based on a mis-identified specimen at the MONTU Herbarium. Specimen was re-determined to Penstemon attenuatus var pseudoprocerus by Craig Freeman in 2010.
Kalmia polifolia Bog Laurel	3/18/2010	The Montana material of Kalmia which has been treated as K. polifolia based on size characters appears to all be properly treated within K. microphylla. Kalmia polifolia in the strict sense is a species of the northeastern U.S, upper midwest and across portions of Canada.
Poa arnowiae Short-leaved Bluegrass	3/3/2010	Moved to Status Under Review pending further taxonomic clarification of Poa anowiae in relation to Poa wheeleri and the previously used name Poa curta. Additional review of Montana specimens is also needed.
Taraxacum eriophorum Rocky Mountain dandelion	2/11/2010	Species was removed from SOC status due to a taxonomic change. It is now treated as part of the more common Taraxacum ceratophorum.
Eustoma grandiflorum Showy Prairie-gentian	2/11/2010	Removed from SOC status due to insufficient information on the habitat and locality of the single Montana collection. May have been an isolated introduction into the state.
Senecio spribillei Cabinet Mountains Groundsel	10/26/2009	Senecio spribillei was incorrectly described as a new species based on the single known Montana location, which is actually a disjunct population of Senecio elmeri. See Senecio elmeri for additional information.
Townsendia spathulata Sword Townsend-daisy	9/16/2009	Moved to PSOC list. The species' viability in the state does not appear to be at risk due in part to its relatively widespread distribution in southwest and south-central montana and its overall abundance.
Townsendia nuttallii Nuttall's Townsend-daisy	9/15/2009	Removed from SOC status as this taxon is considered to be conspecific with the more common Townsendia hookeri
Delphinium bicolor ssp. calcicola Limestone Larkspur	9/11/2009	Moved to PSOC list. A Montana endemic that is widespread in sw Montana and locally common in some habitats. The viability of this endemic subspecies does not appear to be at risk.
Orogenia linearifolia Great Basin Indian-potato	5/27/2009	More common than previously known with few potential threats to the viability of the species in MT
Ranunculus jovis Jove's Buttercup	5/27/2009	More common than previously known with very few potential threats to the viability of the species in MT
Zizia aurea Golden Alexanders	5/13/2009	Reports for Montana are based on mis-identified specimens of Zizia aptera
Mentzelia montana White-bract stickleaf	10/8/2008	The 2 previously reported locations in Montana were mis-identified specimens of M. dispersa and M. nuda.
Lewisia pygmaea var. nevadensis Nevada Bitterroot	10/3/2008	Removed from SOC status as Montana specimens appear to be more closely related to typical Lewisia pygmaea.
Erigeron radicatus Taprooted Fleabane	4/8/2008	Removed due to overall abundance and lack of threats to high elevation habitats.
Ribes velutinum Desert Goosebery	3/15/2008	The single Montana location was based on a mis-identified specimen of R. montigenum.
Lesquerella paysonii Payson Bladderpod	1/15/2007	Montana occurrences belong to Physaria carinata (formerly Lesquerella carinata), which is a SOC.
Eriogonum brevicaule var. canum Rabbit Buckwheat	12/15/2006	Locally common in parts of Carbon and Big Horn Counties.
Trifolium cyathiferum Cup Clover	6/1/2006	Status of the species in Montana requires additional review. At least 2 of the 3 documented locations in Montana are likely adventive.
Senecio pauciflorus Few-flowered Butterweed	6/1/2006	Status of the species in Montana requires additional review.
Ribes cognatum Shinyleaf Gooseberry	6/1/2006	Reports of this species in MT are based on mis-identified specimens of R. irriguum and R. setosum.
Carex chalciolepis Copper-scale Sedge	6/1/2006	Reports of this species from Montana require additional review.

Carex pallescens Palish Sedge	6/1/2006	Occurrences of this species in Montana are likely introduced.
Cypripedium parviflorum Small Yellow Lady's-slipper	6/1/2006	Moved to PSOC list due in part to the number of known occurrences, level of threat to the species and the relatively wide distribution in the state.
Carex norvegica ssp. inserrulata Toothed Scandinavian Sedge	6/1/2006	Uncertain taxonomic status.
Cirsium longistylum Long-styled Thistle	12/15/2004	Removed from SOC status at the time as a result of review showing that a state rank of S3 was warranted.
Lycopodium sitchense Alaskan Clubmoss	4/1/2003	
Botrychium montanum Mountain Moonwort	4/1/2003	
Allotropa virgata Candystick	4/1/2003	
Chrysosplenium tetrandrum Northern Golden-carpet	4/1/2003	
Castilleja gracillima Slender Indian Paintbrush	4/1/2003	
Carex livida Pale Sedge	4/1/2003	
Senecio eremophilus Desert Groundsel	6/1/2001	S. eremophilus var eremophilus
Eurybia glauca Gray Aster	6/1/2001	
Viola renifolia Kidney-leaf White Violet	6/1/2001	
Psoralea hypogaea Little Indian Breadroot	6/1/2001	
Astragalus racemosus var. longisetus Raceme Milkvetch	6/1/2001	
Carex magellanica Poor Sedge	6/1/2001	
Botrychium minganense Mingan Island Moonwort	3/1/1999	
Salix cascadensis Cascades Willow	3/1/1999	
Myosotis verna Early Forget-me-not	3/1/1999	
Mirabilis hirsuta Hairy Four-o'clock	3/1/1999	
Conioselinum scopulorum Hemlock Parsley	3/1/1999	
Helenium hoopesii Orange Sneezeweed	3/1/1999	
Cryptantha flavoculata Pale Yellow Cryptantha	3/1/1999	
Agoseris lackschewitzii Pink Agoseris	3/1/1999	

Gentiana prostrata Pygmy Gentian	3/1/1999	
Cryptantha humilis Round-headed Cryptantha	3/1/1999	
Gentianella tenella Slender Gentian	3/1/1999	
Halenia deflexa Spurred Gentian	3/1/1999	
Bidens comosa Three-lobe Beggarticks	3/1/1999	
Carex neurophora Alpine Nerved Sedge	3/1/1999	
Calamagrostis tweedyi Cascade reedgrass	3/1/1999	
Carex chalciolepis Copper-scale Sedge	3/1/1999	Previously referred to as C. chalciolepis
Allium fibrillum Fringed Onion	3/1/1999	
Carex nelsonii Nelson's Sedge	3/1/1999	
Agrostis borealis Northern Bentgrass	3/1/1999	
Juncus triglumis Three-flowered Rush	3/1/1999	
Papaver pygmaeum Alpine Glacier Poppy	6/1/1997	
Evax prolifera Big-head Evax	6/1/1997	
Physaria klausii Divide Bladderpod	6/1/1997	
Erigeron flabellifolius Fan-leaved Fleabane	6/1/1997	
Cuscuta pentagona Field Dodder	6/1/1997	
Mimulus glabratus var. fremontii Glabrous Monkeyflower	6/1/1997	
Heterotheca villosa var. depressa Low Golden Aster	6/1/1997	Chrysopsis villosa
Ligusticum porteri Porter's Lovage	6/1/1997	
Physalis hederifolia var. comata Prairie Ground-cherry	6/1/1997	Moved to Watch status
Spiraea x pyramidata Pyramidal Spiraea	6/1/1997	
Eriogonum brevicaule var. canum Rabbit Buckwheat	6/1/1997	E. lagopus

Erigeron flagellaris Running Fleabane	6/1/1997	
Pedicularis contorta var. rubicunda Selway Coil-beaked Lousewort	6/1/1997	
Gilia inconspicua Shy Gilia	6/1/1997	
Madia minima Small-headed Tarweed	6/1/1997	
Bidens vulgata Tall Bur-marigold	6/1/1997	Specifically B. vulgata var. schizantha
Machaeranthera commixta United Tansy-aster	6/1/1997	
Erigeron bellidiastrum Western Fleabane	6/1/1997	
Symphyotrichum lanceolatum White Panicle Aster	6/1/1997	Previously referred to as Aster simplex var. ramosissimus
Polygonum polygaloides White-margin Knotweed	6/1/1997	
Lilium columbianum Columbia Lily	6/1/1997	
Oryzopsis contracta Contracted Indian Ricegrass	6/1/1997	
Eriophorum viridicarinatum Green-keeled Cottonsedge	6/1/1997	
Carex eburnea Ivory Sedge	6/1/1997	
Trisetum x orthochaetum Missoula County Oats	6/1/1997	
Scirpus pendulus Pendulous Bulrush	6/1/1997	
Astragalus platytropis Broad-keeled Milkvetch	5/1/1996	
Penstemon caryi Cary's Beardtongue	5/1/1996	
Townsendia nuttallii Nuttall's Townsend-daisy	5/1/1996	
Castilleja pilosa var. longispica Parrot-head Indian Paintbrush	5/1/1996	C. longispica
Physalis pumila ssp. hispida Prairie Ground-cherry	5/1/1996	Previously referred to as P. virginiana var. hispida
Carex luzulina var. atropurpurea Black and Purple Sedge	5/1/1996	
Carex torreyi Torrey's Sedge	5/1/1996	
Elatine americana American Water-wort	5/1/1995	Review of species taxonomy needed

Erigeron allocotus Big Horn Fleabane	5/1/1995	Regional endemic, secure
Draba daviesiae Bitterroot Draba	5/1/1995	Regional endemic, secure
Physalis heterophylla Clammy Ground-cherry	5/1/1995	Adventive
Cardamine rupicola Cliff Toothwort	5/1/1995	State endemic, secure
Astragalus chamaeleuce Ground Milkvetch	5/1/1995	Many populations, low threats
Oxytropis lagopus var. conjugens Hare's-foot Locoweed	5/1/1995	State endemic, secure
Cymopterus hendersonii Henderson's Wavewing	5/1/1995	Taxonomic revision pending
Delphinium bicolor ssp. calcicola Limestone Larkspur	5/1/1995	Referable to D. bicolor ssp. novum prior to 1995
Ericameria discoidea var. linearis Linear-leaved whitestem goldenbush	5/1/1995	Many populations, low threats
Stenotus multicaulis Many-stem Goldenweed	5/1/1995	New populations, low threats
Synthyris canbyi Mission Mountain kittentails	5/1/1995	Regional endemic, secure
Sphaeromeria capitata Rock-tansy	5/1/1995	Many populations, low threats
Physaria saximontana var. dentata Rocky Mountain Twinpod	5/1/1995	
Epilobium suffruticosum Shrubby Willowherb	5/1/1995	Many populations, low threats
Gaultheria ovatifolia Slender Wintergreen	5/1/1995	Many populations, low threats
Lorandersonia linifolia Spearleaf Rabbitbrush	5/1/1995	Locally common, low threats
Townsendia spathulata Sword Townsend-daisy	5/1/1995	Many populations, low threats
Trifolium latifolium Twin Clover	5/1/1995	Many populations, low threats
Trifolium microcephalum Woolly Clover	5/1/1995	Many populations, low threats
Penstemon flavescens Yellow Beardtongue	5/1/1995	Regional endemic, secure
Muhlenbergia minutissima Annual Muhly	5/1/1995	Many populations, low threats
Eriophorum viridicarinatum Green-keeled Cottonsedge	5/1/1995	Many populations, locally common
Scirpus nevadensis Nevada Bulrush	5/1/1995	Many populations, low threats

Scirpus pallidus Pale Bulrush	5/1/1995	Many populations, low threats
Dichanthelium acuminatum Panic Grass	5/1/1995	Many populations, low threats. Previously referred to as Panicum occidentale
Acorus americanus Sweetflag	5/1/1995	Specimen review needed
Stipa thurberiana Thurber's Needlegrass	5/1/1995	Probably accidental
Carex vallicola Valley Sedge	5/1/1995	Many populations, low threats
Dichanthelium wilcoxianum Wilcox's Panic Grass	5/1/1995	Many populations, low threats
Lycopodium alpinum Alpine Clubmoss	5/1/1994	More common than previously known
Orobanche corymbosa Flat-topped Broomrape	5/1/1994	More common than previously known
Astragalus lentiginosus Freckled Milkvetch	5/1/1994	Limited distribution
Stanleya viridiflora Green Prince's plume	5/1/1994	Limited distribution
Cirsium subniveum Jackson Hole Thistle	5/1/1994	More common than previously known
Arenaria kingii King's Arenaria	5/1/1994	More common than previously known
Eriogonum ovalifolium var. ovalifolium Oval-leaf Buckwheat	5/1/1994	More common than previously known. Previously referred to as E. ovalifolium var. nevadense
Astragalus leptaleus Park Milkvetch	5/1/1994	Limited distribution
Castilleja flava var. rustica Rustic Indian Paintbrush	5/1/1994	More common than previously known. Many populations, low threats
Astragalus argophyllus Silver-leaved Milkvetch	5/1/1994	More common than previously known
Pediocactus simpsonii Simpson's Hedgehog Cactus	5/1/1994	More common than previously known
Erigeron gracilis Slender Fleabane	5/1/1994	More common than previously known
Mimulus suksdorfii Suksdorf Monkeyflower	5/1/1994	More common than previously known
Senecio debilis Weak Groundsel	5/1/1994	Limited distribution
Trisetum x orthochaetum Missoula County Oats	5/1/1994	Sterile hybrid
Selaginella watsonii Watson's Spike-moss	4/1/1993	More common than previously known
Ipomopsis pumila Dwarf Ipomopsis	4/1/1993	More common than previously known
Ligusticum filicinum Fern-leaf Lovage	4/1/1993	More common than previously known
Gilia leptomeria Great Basin Gilia	4/1/1993	More common than previously known

Townsendia incana Hoary Townsend-daisy	4/1/1993	More common than previously known
Camissonia scapoidea ssp. brachycarpa Naked-stemmed Evening-primrose	4/1/1993	More common than previously known
Geocaulon lividum Northern Bastard-toadflax	4/1/1993	More common than previously known
Wyethia scabra var. scabra Rough Mule's Ears	4/1/1993	More common than previously known
Claytonia multiscapa Rydberg’s Springbeauty	4/1/1993	1994 note: More common than previously known
Camissonia minor Small-flowered Evening-primrose	4/1/1993	More common than previously known
Phacelia ivesiana var. glandulifera Sticky Scorpion-weed	4/1/1993	More common than previously known
Streptanthella longirostris Streptanthella	4/1/1993	More common than previously known
Gilia tweedyi Tweedy's Gilia	4/1/1993	More common than previously known. Previously referred to as G. inconspicua var. tweedyi
Xylorhiza glabriuscula Woody Aster	4/1/1993	More common than previously known
Stanleya tomentosa Woolly Prince's plume	4/1/1993	More common than previously known
Carex angustata Narrow Sedge	4/1/1993	Record based on misidentification. Referred to as Carex eurycarpa.
Scirpus cyperinus Woolgrass	4/1/1993	Adventive