3
581.7786
N11ste
1991

SENSITIVE, THREATENED AND ENDANGERED VASCULAR PLANTS OF MONTANA

Peter Lesica

J. Stephen Shelly

Montana Natural Heritage Program
Occasional Publication No. 1

PLEASE RETURN

STATE DOCUMENTS COLLECTION

APR 22 1996

MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

MAY 22 1996

SEP 4 1997

JUN 23 1998

G 24 1999

This publication is dedicated to the memory of Larry S. Thompson. One of Montana's preeminent field biologists, his friendship and interest in the natural history of the state have been an inspiration to many of us.

Copies of this publication are \$5.00 postpaid and can be obtained from:

Montana Natural Heritage Program
State Library Building
1515 East Sixth Avenue
Helena, Montana 59620
(406) 444-3009

The preferred citation for this manual is:

Lesica, P. and J. S. Shelly. 1991. Sensitive, Threatened and Endangered Vascular Plants of Montana. Montana Natural Heritage Program, Occasional Publication No. 1. Helena, Montana. 88 pp.

The cover illustration of Arabis fecunda was prepared by Robert Allen, staff artist for the Bureau of Land Management, Montana State Office.

Occasional Publications of the
Montana Natural Heritage Program
No. 1

SENSITIVE, THREATENED AND ENDANGERED VASCULAR PLANTS OF MONTANA

Peter Lesica

Herbarium
Division of Biological Sciences
University of Montana
Missoula, Montana 59812

J. Stephen Shelly

Montana Natural Heritage Program
Montana State Library
1515 East Sixth Avenue
Helena, Montana 59620

April 1991

Montana Natural Heritage Program
Montana State Library

TABLE OF CONTENTS

Acknowledgements.....	i
Introduction.....	1
Nomenclature.....	1
Status Classifications Used in This Manual.....	1
Montana Status.....	1
Natural Heritage Program Status.....	2
U. S. Fish and Wildlife Service Status.....	4
U. S. Forest Service Status.....	5
Status in Other States or Provinces.....	5
Information Categories.....	6
Global Distribution.....	6
Land Ownership.....	6
Habitat, Phenology and Physiographic Distribution.....	7
Literature Cited.....	7
Endangered Plants.....	9
Threatened Plants.....	11
Sensitive Plants.....	16
Possibly Extirpated Plants.....	60
Watch List Plants.....	61
Plants of Limited Distribution.....	68
Plants of Undetermined Status.....	76
Plants Considered for Status but Rejected.....	80
Index.....	86

ACKNOWLEDGMENTS

Numerous botanists have assisted us in the completion of this work. Review and technical input from the following individuals is gratefully acknowledged: Kathy Ahlenslager, Wally Albert, Anne Bradley, Steve Chadde, Joe Elliott, Angela Evenden, Dana Field, Andy Kratz, Klaus Lackschewitz, Matt Lavin, Maria Mantas, John Pierce, John Rumely, Lisa Schassberger, Ken Scow, Doug Soltis, Peter Stickney, Virginia Vincent, Carl Wambolt and Paul Wolf. Robert Dorn was particularly helpful and graciously answered many questions regarding taxonomic literature and the location of specimens.

We are grateful to the following systematists for determining Montana material: Loran Anderson, Randall Bayer, Rupert Barneby, John Beaman, Kenton Chambers, Lincoln Constance, Arthur Cronquist, Garrett Crow, Alva Day, Robert Dorn, John Gillett, Ronald Hartman, Douglass Henderson, James Hickman, David Lellinger, Ronald McGregor, Robert Moseley, Gerald Ownbey, James Reveal, Anton Reznicek, Reed Rollins, Alfred Schuyler, Lisa Standley, W. H. Wagner and William Weber.

Financial support was provided by the U.S. Forest Service (Region 1), the U.S. Bureau of Land Management (Montana State Office), and the Montana Natural Heritage Program (Montana State Library). We thank Angela Evenden and Bill Ruediger (USFS), Donald Heinze (BLM) and David Genter (MNHP) for their interest in this project.

Assistance with preparation of the manuscript was provided by Margaret Beer (Montana Natural Heritage Program).

Lastly, we would like to thank the curators of the herbaria in Montana for access to their collections; these invaluable resources form the most critical basis for this work.

INTRODUCTION

In recent times, there has been a rapid increase in public awareness of the need for understanding and maintaining the diversity of life on earth. This concern has prompted private organizations and governmental agencies to include biological diversity issues in their planning and activities. The purpose of this volume is to provide current information on the rarer elements of the flora of Montana, enabling interested parties to include assessments of sensitive plants in their work.

In 1984, the Montana Rare Plant Project published Vascular Plants of Limited Distribution in Montana. Since that time, there have been many advances in our knowledge of the flora of the state. Many species formerly thought to be rare have been found to be more common, while other species previously not known from Montana have been found here. Establishment of the Montana Natural Heritage Program in 1985, with its data organization and acquisition procedures, has also contributed to our knowledge of the state's flora. Consequently, a need to update the available information regarding the rare plants of Montana arose; this volume represents an updated synthesis of this information.

The Montana Natural Heritage Program is a computer-assisted inventory of the geographical locations of rare plants, animals, and plant communities in the state. The database also contains information on the size and condition of each species occurrence. Computer searches for occurrences in particular geographic areas, or for particular species, can be conducted. To request such information, the program may be contacted at the following address: Montana Natural Heritage Program, State Library, 1515 E. 6th Avenue, Helena, MT 59620; phone 406/444-3009.

Information on the status of rare species is dynamic, and subject to change as further studies and documentation accumulate. New information regarding locations for the plant taxa listed in this volume can be submitted to the MTNHP, for entry into the database. Any comments or recommendations for status changes, additions, or deletions from these lists can also be sent to the above address.

NOMENCLATURE

In most cases, nomenclature follows Hitchcock and Cronquist (1973) and Great Plains Flora Association (1986). References for some taxa must be sought in the recent taxonomic literature; these are cited where necessary. Synonyms are given only when we feel they may be in common usage. Common names are taken largely from Hitchcock and Cronquist (1973).

STATUS CLASSIFICATIONS USED IN THIS MANUAL

MONTANA STATUS

We reviewed all species previously listed as rare, threatened, endangered, or undetermined by Lesica et al. (1984), as well as many others, including recently described species, those recently discovered within the state's boundaries, and those nominated for consideration. We placed all reviewed species in one of the following eight categories based on the perceived degree of threat to the continued existence of the plant in the state. There are no state laws that provide any direct, substantive protection for rare plants in Montana; thus, these categories are currently

unofficial. The status of each species was determined by reference to verified herbarium records, accounts in published and unpublished literature, and communications with herbaria and individuals knowledgeable about the flora of Montana. The figures in parentheses indicate the total number of plant taxa included in each category.

ENDANGERED (7). Any species, subspecies or variety in danger of extirpation throughout all or a significant portion of its range in Montana. Specific threats to known populations of these plants have been identified.

THREATENED (25). Any species, subspecies or variety likely to become endangered throughout all or a significant portion of its range in Montana in the foreseeable future. Specific threats to known populations of these plants have been identified.

SENSITIVE (260). Any species, subspecies or variety that is known from a limited number of populations in Montana, or that occurs principally in restricted habitats considered vulnerable to man-caused disturbances. These species may have a restricted range in Montana, or they may be sparsely distributed over a larger area. Plants designated as sensitive may possibly become threatened or endangered in the state if impacts to known populations occur.

POSSIBLY EXTIRPATED (2). Recent field searches indicate that these species, once known to occur in Montana, may no longer occur in the state.

WATCH LIST (37). These species, subspecies or varieties are considered too common to be listed as sensitive, but more information is needed for certainty. In addition, the degree of threat is difficult to determine for many of these taxa. Populations should be inventoried and periodically monitored in order to gain additional information. Occurrences of these plants are being tracked by the Montana Natural Heritage Program.

LIMITED DISTRIBUTION (44). These species, subspecies or varieties are limited to a small area of Montana (usually two counties or less), but are considered too abundant within that area to be sensitive. These taxa are included here because of their phytogeographic significance, but, except for state endemics, their populations are not currently being tracked by the Montana Natural Heritage Program.

UNDETERMINED (71). Taxa for which there is some question as to identity or taxonomic status are included in this category. Also included are species reported to be in Montana, but for which we have no verifiable evidence of their presence here.

REJECTED (670). Species, subspecies and varieties determined not to be endangered, threatened, sensitive, potentially sensitive (watch list), or of limited distribution were rejected. This category includes taxa previously rejected by the Montana Rare Plant Project (Lesica et al. 1984), as well as those that have been rejected since that time.

NATURAL HERITAGE PROGRAM STATUS

The Nature Conservancy has devised a standardized ranking system that is used by most Natural Heritage Programs. Plant species, subspecies and varieties are ranked on the basis of their global (range-wide) rarity, and their rarity within each state, using the following categories:

GLOBAL
RANK

Definition

- G1 Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.
- G2 Imperiled globally because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range.
- G3 Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction throughout its range because of other factors; in the range of 21 to 100 occurrences.
- G4 Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- G5 Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- GU Possibly in peril range-wide, but status uncertain; more information needed.
- GH Historically known; may be rediscovered.
- GX Believed to be extinct throughout range; historical records only, continue search.
- HYB Subfertile or sterile hybrid.

STATE
RANK

Definition

- S1 Critically imperiled in Montana because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extirpation from the state.
- S2 Imperiled in Montana because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extirpation from the state.
- S3 Rare in Montana (on the order of 21+ occurrences).
- S4 Apparently secure in Montana.
- S5 Demonstrably secure in Montana.
- SU Possibly in peril in Montana, but status uncertain; more information needed.
- SH Historically known in Montana; may be rediscovered.
- SX Apparently extirpated from Montana.

Other codes:

- T Global rank for a subspecific taxon (subspecies or variety);
appended to the global rank for the full species.
- Q Taxonomic questions or problems involved; more information needed.
Appended to the global rank for the species, subspecies, or
variety in question.

U.S. FISH AND WILDLIFE SERVICE STATUS

In its most recent Notice of Review (U.S. Department of Interior 1990), the U.S. Fish and Wildlife Service included one plant species that occurs in Montana in Category 1, and 18 plant taxa in Category 2; in addition, 19 plant taxa are currently placed in Category 3C. There are currently no plant taxa in Montana that are listed as threatened or endangered under the federal Endangered Species Act of 1973.

The categories that are represented in Montana are defined as follows (U.S. Department of Interior 1990):

Category 1 (C1) - "Taxa for which the Service has on file enough substantial information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened species." Howellia aquatilis is the only plant taxon in Montana that is currently included in Category 1.

Category 2 (C2) - "Taxa for which there is some evidence of vulnerability, but for which there are not enough data to support listing proposals at this time." The following 18 plant taxa occurring in Montana are currently included in Category 2 (* indicates plants that have recently been proposed for downlisting to Category 3C; it is anticipated that the next Notice of Review will reflect these recommendations):

Arabis fecunda
*Astragalus barrii
*Astragalus scaphoides
Botrychium crenulatum
Botrychium paradoxum
*Calamagrostis tweedyi
Carex lenticularis var. dolia
Cirsium longistylum
Claytonia lanceolata var. flava
Eriogonum lackschewitzii
Eriogonum lagopus [= E. x lagopus (J. Reveal, pers. comm.)]
Grindelia howellii
Lesquerella humilis
Penstemon lemhiensis
Rorippa calycina
Shoshonea pulvinata
Silene spaldingii
Trisetum orthochaetum

Category 3C (3C) - "Taxa that have proven to be more abundant or widespread than previously believed and/or those that are not subject to any identifiable threat." The following 19 plant taxa occurring in Montana are currently included in Category 3C (* indicates occurrences are no longer being tracked by the Montana Natural Heritage Program):

Agastache cusickii
*Aquilegia jonesii
Astragalus ceramicus var. apus
Cardamine rupicola
Carex idahoensis (= C. parryana ssp. idahoensis)
*Draba daviesiae
Cypripedium fasciculatum
Erigeron allocotus
Haplopappus aberrans
Lesquerella carinata
Penstemon caryi
Phlox alpestris
Phlox kelseyi var. missoulensis
Polystichum kruckebergii
Saussurea weberi
Sullivantia hapemanii
Synthyris canbyi
Townsendia spathulata
Waldsteinia idahoensis

U.S. FOREST SERVICE STATUS

Region One of the U. S. Forest Service has placed certain plant taxa into sensitive and watch categories. These categories are defined as follows:

SENSITIVE: a plant species, or recognized subspecies or variety, for which the Regional Forester has determined there is a concern for population viability, within a state, as evidenced by significant current or predicted downward trend in populations or habitat. All sensitive plant taxa are known to occur on National Forest land. This category may include federal candidates (C1, C2, 3C), or plant species proposed for listing as threatened or endangered in the Federal Register.

WATCH: a plant species, or recognized subspecies or variety, that: (1) is not known to occur on National Forest land, but is predicted to occur on the basis of suitable habitat, and for which there is concern for population viability, within a state, as evidenced by significant current or predicted downward trend in populations or habitat. These taxa, if found on National Forest land, would be designated as sensitive. This group may include federal candidates (C1, C2, 3C); OR (2) is known to occur on Forest Service land, but has no immediate or predicted threats to population viability. These taxa are important to monitor in the overall biological diversity program because of limited distribution or federal status. Included in this category could be taxa endemic to a given state, or federal candidate species for which there is now evidence that populations are more widespread than previously thought and are considered secure.

STATUS IN OTHER STATES OR PROVINCES

The status of listed species in adjacent states or Canadian provinces is provided, according to the following authorities: Alberta (Packer and Bradley 1984), British Columbia (Straley et al. 1985), Idaho (Moseley and Groves

1990), North Dakota (North Dakota Wildlife Society 1986), Oregon (Oregon Natural Heritage Data Base 1987), Saskatchewan (Maher et al. 1979), South Dakota (Houtcooper et al. 1985), Washington (Washington Natural Heritage Program 1987), and Wyoming (Clark and Dorn 1981).

INFORMATION CATEGORIES

GLOBAL DISTRIBUTION

The rangewide distribution of each listed taxon is given, followed by a descriptor classifying the taxon's distribution in Montana (Lesica et al. 1984):

Regional Endemic. Occurring only in a restricted geographic area equal to or less than approximately one-third the size of Montana. There are two basic types of endemism: (1) neoendemism, in which a species is relatively young evolutionarily, and may be expanding its range, and (2) paleoendemism, in which the range of a species was once greater but is now restricted (Stace 1980). Regional endemics restricted to Montana are classified as "endemic to Montana" in the COMMENTS section for each one (12 total); these include:

Arabis fecunda
Cardamine rupicola
Cirsium longistylum
Erigeron lackschewitzii
Eriogonum capistratum var. muhlickii
Lesquerella humilis
Lesquerella klausii
Oxytropis lagopus var. conjugens
Phlox kelseyi var. missoulensis
Saxifraga tempestiva
Synthyris canbyi
Trisetum orthochaetum

Disjunct. The population(s) in Montana are widely separated from the main contiguous range of the species. Disjunctions may arise by long distance dispersal, or they may represent the relics of former contiguous distributions (Stace 1980). Incomplete knowledge of regional floristics may result in apparent disjunctions.

Peripheral. At the geographic limits of its contiguous range. At the edge of its range, a species may exhibit limitations in habitat preference.

Sparse. Widespread range in Montana but relatively few individuals per population, or few populations, or both. Species adapted to specialized habitats often demonstrate this distribution pattern.

LAND OWNERSHIP

Many populations of sensitive species occur on public lands in Montana. When information is available, we have listed the names of the agencies responsible for managing lands on which particular sensitive species occur. These include districts of the Bureau of Land Management (BLM), National Forests of the U. S. Forest Service (USFS), various national parks (NP) and national recreation areas (NRA), national wildlife refuges (NWR), state forests, state parks and Indian reservations; where known or suspected, occurrence on private lands is also indicated.

HABITAT, PHENOLOGY AND PHYSIOGRAPHIC DISTRIBUTION

We used information from herbarium labels, as well as published and unpublished literature, to describe the habitat, physiographic regions occupied, and phenology of each listed species.

LITERATURE CITED

- Anderson, L. C. 1978. New taxa in Chrysothamnus, section Nauseosi (Asteraceae). *Phytologia* 38: 309-320.
- Bamberg, S. A. and J. Major. 1968. Ecology of the vegetation and soils associated with calcareous parent materials in three alpine regions of Montana. *Ecological Monographs* 42: 417-450.
- Bamberg, S. A. and R. H. Pemble. 1968. New records of disjunct arctic-alpine plants in Montana. *Rhodora* 70: 103-112.
- Barneby, R. C. 1964. Atlas of North American Astragalus, Parts 1 and 2. *Memoirs of the New York Botanical Garden* 13: 1-1188.
- Brownell, V. R. and P. M. Catling. 1987. Notes on the distribution and taxonomy of Cypripedium fasciculatum Kellogg ex Watson (Orchidaceae). *Lindleyana* 2: 53-57.
- Clark, T. W. and R. D. Dorn. 1981. Rare and endangered vascular plants and vertebrates of Wyoming. Jackson, Wyoming.
- Dorn, R. D. 1984. Vascular plants of Montana. Mountain West Publishing, Cheyenne, Wyoming.
- Evert, E. F. 1982. Shoshonea pulvinata, a new genus and species of Umbelliferae from Wyoming. *Systematic Botany* 7: 471-475.
- Great Plains Flora Association. 1977. Atlas of the Flora of the Great Plains. Iowa State University Press, Ames.
- Great Plains Flora Association. 1986. Flora of the Great Plains. University Press of Kansas, Lawrence.
- Henderson, D. M., R. K. Moseley and A. F. Cholewa. 1990. A new Agoseris (Asteraceae) from Idaho and Montana. *Systematic Botany* 15: 462-465.
- Hermann, F. J. 1970. Manual of the carices of the Rocky Mountains and Colorado Basin. USDA Forest Service Agriculture Handbook 374, Washington, D.C.
- Hitchcock, C. L. and A. Cronquist. 1973. Flora of the Pacific Northwest. University of Washington Press, Seattle.
- Hitchcock, C. L., A. Cronquist, M. Owenby and J. W. Thompson. 1955-1969. Vascular plants of the Pacific Northwest, Parts 1-5. University of Washington Press, Seattle.
- Lellinger, D. B. 1985. A field manual of the ferns and fern-allies of the United States and Canada. Smithsonian Institution Press, Washington D.C.
- Lesica, P., G. Moore, K. M. Peterson and J. H. Rumely. 1984. Vascular plants of limited distribution in Montana. Monograph No. 2, Proceedings of the Montana Academy of Sciences 43 (Supplement).

- Mahe, R. V., G. W. Argus, V. L. Harms and J. H. Hudson. 1979. The rare vascular plants of Saskatchewan. Syllogeus No. 20, National Museums of Canada, Ottawa.
- Moseley, R. and C. Groves. 1990. Rare, threatened and endangered plants and animals of Idaho. Idaho Department of Fish and Game, Boise.
- Murray, D. F. 1969. Taxonomy of Carex sect. Atratae (Cyperaceae) in the southern Rocky Mountains. Brittonia 21: 55-76.
- North Dakota Chapter, Wildlife Society. 1986. List of North Dakota's threatened and endangered biota. North Dakota Outdoors (August).
- Oregon Natural Heritage Data Base. 1987. Rare, threatened and endangered plants and animals of Oregon. The Nature Conservancy, Portland, Oregon.
- Packer, J. G. 1983. Flora of Alberta. University of Toronto Press, Toronto.
- Packer, J. G. and C. E. Bradley. 1984. A checklist of the rare vascular plants in Alberta. Provincial Museum of Alberta Occasional Paper No. 5, Edmonton.
- Peterson, P. M., C. R. Annable and L. H. Rieseberg. Systematic relationships and nomenclatural changes in the Allium douglasii complex (Alliaceae). Systematic Botany 13: 207-214.
- Reese, R. N. 1984. A new variety of Pedicularis contorta (Scrophulariaceae) endemic to Idaho and Montana. Brittonia 36: 63-66.
- Reveal, J. L. 1989. New combinations and novelties in the genus Eriogonum (Polygonaceae). Phytologia 66: 251-265.
- Rollins, R. C. 1984. Studies in the Cruciferae of Western North America II. Contributions to the Gray Herbarium 214: 1-18.
- Stace, C. A. 1980. Plant taxonomy and biosystematics. Edward Arnold, London.
- Standley, L. A. 1985. Systematics of the Acutae group of Carex (Cyperaceae) in the Pacific Northwest. Systematic Botany Monographs 7: 1-106.
- Standley, P. C. 1921. Flora of Glacier National Park, Montana. Contributions to the U.S. National Herbarium 22:235-438.
- Straley, G. B., R. L. Taylor and G. W. Douglas. 1985. The rare vascular plants of British Columbia. Syllogeus No. 59, National Museums of Canada, Ottawa.
- U.S. Department of Interior, Fish and Wildlife Service. 1990. Endangered and threatened wildlife and plants; review of plant taxa for listing as endangered or threatened species; notice of review. Federal Register 55 (35): 6184-6229.
- Washington Natural Heritage Program. 1987. Endangered, threatened and sensitive vascular plants of Washington. Washington Department of Natural Resources, Olympia.
- Welsh, S. L., N. D. Atwood, S. Goodrich and L. C. Higgins. 1987. A Utah flora. Great Basin Naturalist Memoirs 9: 1-894.

SCIENTIFIC NAME: **AGASTACHE CUSICKII**
(Greenm.) Heller
COMMON NAME: Cusick's horse-mint
FAMILY: Lamiaceae (Mint Family)
MONTANA STATUS: Endangered
GLOBAL and STATE RANKS (TNC): G3G4/S1
USFWS STATUS: 3C
USFS STATUS: None
STATUS IN OTHER STATES: Limited abundance in OR (var. cusickii)
GLOBAL DISTRIBUTION: Central ID, n. NV and sw. MT. Var. cusickii occurs only in se OR. Regional endemic.
MONTANA COUNTIES: Beaverhead
LAND OWNERSHIP: BLM, Butte District
PHYSIOGRAPHIC DISTRIBUTION: Tendency Mtns.
HABITAT: Unstable, limestone talus in the montane zone, ca. 2070 m (6,800 ft)
PHENOLOGY: Flowering in late June and early July
COMMENTS: The only known population in Montana is threatened by gravel mining of the talus slope habitat. Our plants are var. parva Cronq.

SCIENTIFIC NAME: **BOTRYCHUM CRENULATUM** Wagner
COMMON NAME: Wavy moonwort
FAMILY: Ophioglossaceae (Grapefern Family)
MONTANA STATUS: Endangered
GLOBAL and STATE RANKS (TNC): G3/S1
USFWS STATUS: C2
USFS STATUS: Watch List
STATUS IN OTHER STATES: Watch list in CA, review list in ID
GLOBAL DISTRIBUTION: CA, central AZ, NV and nw. MT. Disjunct.
MONTANA COUNTIES: Lake
LAND OWNERSHIP: Private
PHYSIOGRAPHIC DISTRIBUTION: Upper Flathead River drainage
HABITAT: Moist forests in the valley zone, ca. 940 m (3,100 ft.)
PHENOLOGY: Mature fronds in July
COMMENTS: The only known location for this species in Montana is threatened by residential development and timber harvest activity. A recent search failed to locate any plants.

SCIENTIFIC NAME: **CAREX COMOSA** Boott
COMMON NAME: Bristly sedge
FAMILY: Cyperaceae (Sedge Family)
MONTANA STATUS: Endangered
GLOBAL and STATE RANKS (TNC): G5/S1
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Category 1 (endangered) in ID, sensitive in WA, rare in B.C.
GLOBAL DISTRIBUTION: Que. to SD, south to FL and LA, and WA to w. MT, south to CA. Peripheral.
MONTANA COUNTIES: Flathead
LAND OWNERSHIP: U.S. Fish and Wildlife Service(?) private(?)
PHYSIOGRAPHIC DISTRIBUTION: Flathead Lake
HABITAT: Marshes in the valley zone 880 m (2,900 ft.)
PHENOLOGY: Mature fruit in July
COMMENTS: The only known Montana population is threatened by shoreline erosion resulting from manipulated lake levels.

SCIENTIFIC NAME: **CAREX SYCHNOCEPHALA** Carey
COMMON NAME: Many-headed sedge
FAMILY: Cyperaceae (Sedge Family)
MONTANA STATUS: Endangered
GLOBAL and STATE RANKS (TNC): G4/S1
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Sensitive in WA, rare in B.C.
GLOBAL DISTRIBUTION: Ont. to B.C., south to NY, IA, MT, and WA. Sparse.
MONTANA COUNTIES: Cascade, Flathead, Glacier, Lincoln, Sheridan
LAND OWNERSHIP: Blackfeet Indian Reservation, private
PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains, Flathead River and Tobacco River drainages
HABITAT: Moist meadows and shores of ponds and lakes in the valley and foothill zones and on the plains, 670-1460 m (2,200-4,800 ft.)
PHENOLOGY: Mature fruit in July-August
COMMENTS: The Cascade Co. collections are nearly 100 years old and the sites have not been relocated. Three of the four verified populations in Montana are threatened by residential and agricultural development.

SCIENTIFIC NAME: **GLOSSOPETALON NEVADENSE** Gray
COMMON NAME: Spiny greenbush
FAMILY: Celastraceae (Staff-tree Family)
PERTINENT SYNONYMS: Forsellesia nevadensis (Gray) Greene
MONTANA STATUS: Endangered
GLOBAL and STATE RANKS (TNC): G4/S1
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: ID and sw. MT to CA and AZ. Peripheral.
MONTANA COUNTIES: Ravalli
LAND OWNERSHIP: Bitterroot N.F.
PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
HABITAT: Rocky canyon walls in the montane zone, 1370 m (4,500 ft.)
PHENOLOGY: Flowering May-June
COMMENTS: This species is known from only one very small population directly adjacent to a major logging road. The plants have been seriously impacted by browsing.

SCIENTIFIC NAME: **MYOSOTIS VERNA** Nutt.
COMMON NAME: Spring forget-me-not
FAMILY: Boraginaceae (Borage family)
MONTANA STATUS: Endangered
GLOBAL and STATE RANKS (TNC): G5/S1
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Rare in B.C.
GLOBAL DISTRIBUTION: Eastern U.S. and adjacent Canada, B.C. to nw. MT, south to OR and ID. Peripheral.
MONTANA COUNTIES: Lake, Missoula
LAND OWNERSHIP: State, private
PHYSIOGRAPHIC DISTRIBUTION: Flathead River and Bitterroot River drainages
HABITAT: Moist, open soil of meadows in the valley, foothill and montane zones, 880-1280 m (2,900-4,200 ft.)
PHENOLOGY: Flowering in May and June
COMMENTS: Both Montana collections were made in the early half of this century and are from areas that have undergone development.

ENDANGERED

SCIENTIFIC NAME: *QUERCUS MACROCARPA* Michx.
COMMON NAME: Bur oak, mossy-cup oak
FAMILY: Fagaceae (Oak Family)
MONTANA STATUS: Endangered
GLOBAL and STATE RANKS (TNC): G5/S1
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: None
GLOBAL DISTRIBUTION: New Bruns. to Sask., south to
MT, NE, TZ, AR, and MD. Peripheral.
MONTANA COUNTIES: Carter, Prairie, Powder River,
reported for Big Horn
LAND OWNERSHIP: Private
PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains,
periphery of the Black Hills
HABITAT: Open shale-derived soil on low hills on the
plains, 1120 m (3,700 ft.)
PHENOLOGY: Flowering in April or May?
COMMENTS: The Prairie Co. location consists of
only a few non-reproductive individuals. The only
known viable Montana population is threatened by
mining activity.

THREATENED

SCIENTIFIC NAME: **ALLIUM COLUMBIANUM** (Ownbey & Mingrone) Peterson, Annable & Rieseberg
 COMMON NAME: Columbia onion
 FAMILY: Liliaceae (Lily Family)
 PERTINENT SYNONYMS: A. douglasii Hook. var. columbianum Ownbey & Mingrone
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northeastern WA, nw. ID, and W. MT. Disjunct.
 MONTANA COUNTIES: Sanders
 LAND OWNERSHIP: State, private
 PHYSIOGRAPHIC DISTRIBUTION: Camas Prairie Basin in the lower Flathead River drainage
 HABITAT: Vernal wet, heavy soils in low areas and around vernal ponds in the valley zone, 850-900 m (2,800-3,000 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This species is currently known in Montana from only a few, small, scattered colonies. It was probably more common before agricultural development of the Camas Prairie Basin. Recently raised to specific status by Peterson et al. (1988).

SCIENTIFIC NAME: **ALLIUM FIBRILLUM** Jones
 COMMON NAME: Fringed onion
 FAMILY: Liliaceae (Lily Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Eastern OR and se. WA, adjacent ID, and nw. MT. Regional endemic.
 MONTANA COUNTIES: Flathead, Lincoln, Missoula
 LAND OWNERSHIP: Kootenai N.F., Flathead N.F., Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Cabinet Mtns., Lewis Range, Mission Range
 HABITAT: Moist shallow soil in the montane zone ca. 1615 m (5,300 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: The Lincoln Co. population occurs on the site of an active mine.

SCIENTIFIC NAME: **ALLOTROPA VIRGATA** T. & G.
 COMMON NAME: Candystick
 FAMILY: Ericaceae (Heath Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Priority 2 (threatened) in ID
 GLOBAL DISTRIBUTION: S. Sierra Nevada and the coastal ranges of CA, n. to B.C. from the e. slope of the Cascade Range to near the coast; disjunct in ID and sw. MT. Disjunct.
 MONTANA COUNTIES: Granite, Ravalli
 LAND OWNERSHIP: Deerlodge N.F., Bitterroot N.F., Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda-Pintlar Range, Bitterroot Range, Sapphire Mtns.
 HABITAT: Coniferous woods at mid- to fairly high elevations, in deep humus, 1950-2285 m (6,400-7,500 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: Field observations indicate that most population are very small, often consisting of only one or a few individuals. This plant is an obligate mycotroph.

SCIENTIFIC NAME: **ARABIS FECUNDA** Rollins
 COMMON NAME: Sapphire rockcress
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G2/S2
 USFWS STATUS: C2
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Southwestern MT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Ravalli, Silver Bow
 LAND OWNERSHIP: Beaverhead N.F.; BLM, Butte District; State; private
 PHYSIOGRAPHIC DISTRIBUTION: Pioneer Range, Sapphire Range
 HABITAT: Open, rocky, often eroding slopes developed from calcareous parent material in the foothills and montane zones, 1370-2150 m (4,500-7,000 ft.)
 PHENOLOGY: Flowering from late April through early June
 COMMENTS: This Montana endemic is threatened by exotic weed encroachment, livestock grazing, and mining activity.

SCIENTIFIC NAME: **ARCTOSTAPHYLOS PATULA** Greene
 COMMON NAME: Green-leaf manzanita
 FAMILY: Ericaceae (Heath Family)
 PERTINENT SYNONYMS: None
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: None
 GLOBAL DISTRIBUTION: South-central WA to CA, east to AZ, NV and nw. MT. Disjunct.
 MONTANA COUNTIES: Lake
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Salish Mtns.
 HABITAT: Rocky soil of open forest in the montane zone, 1280 m (4,200 ft.)
 PHENOLOGY: Flowering in late May and early June, mature fruit in August
 COMMENTS: There is only one population of green-leaf manzanita known in Montana, on land managed for timber production but voluntarily protected by the owners. This species hybridizes with the more common A. uva-ursi. Our plants are ssp. platyphylla (Gray) Wells

SCIENTIFIC NAME: **ASTRAGALUS CHAMAELEUCE** Gray
 COMMON NAME: Cicada milkvetch, ground milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: None
 GLOBAL DISTRIBUTION: South-central MT south to e. UT and nw. CO. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtn.- Big Horn Canyon area
 HABITAT: Open, sandy soil in desert shrublands in the valley zone, 1340 m (4,400 ft.)
 PHENOLOGY: Mature fruit in mid-June
 COMMENTS: The single known Montana population may be threatened by livestock grazing.

SCIENTIFIC NAME: *BOTRYCHIUM PARADOXUM* Wagner
 COMMON NAME: Peculiar moonwort
 FAMILY: Ophioglossaceae (Grapefern Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G1/S1
 USFWS STATUS: C2
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in Alta.
 GLOBAL DISTRIBUTION: Southwestern Alta., w. MT, and UT. Sparse.
 MONTANA COUNTIES: Deer Lodge, Glacier, Pondera
 LAND OWNERSHIP: Lewis & Clark N.F., Deerlodge N.F., Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Range, Lewis Range, Anaconda Range
 HABITAT: Grasslands and meadows in the foothills and montane zones, 1250-2500 m (4,100-8,200 ft.)
 PHENOLOGY: Mature fronds in July
 COMMENTS: Plants are often small and inconspicuous. Populations are generally small. The Pondera Co. population could not be relocated in 1986.

SCIENTIFIC NAME: *CAREX AMPLIFOLIA* Boott
 COMMON NAME: Big-leaf sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern B.C. to CA, e. to ID (n. of the Snake River plains) and nw. MT, and the Steens Mtns. of OR. Peripheral.
 MONTANA COUNTIES: Sanders
 LAND OWNERSHIP: Kootenai N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Clark Fork river drainage
 HABITAT: Swamps, bogs, and other wet places, from lowlands to moderate elevations in the mountains, 760 m (2,500 ft.).
 PHENOLOGY: Mature fruit in July-August.
 COMMENTS: This peripheral species has been collected only once in Montana. Populations may be threatened by logging or mining activities.

SCIENTIFIC NAME: *CAREX GRAVIDA* Bailey
 COMMON NAME: Pregnant sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Sask.
 GLOBAL DISTRIBUTION: PA to Sask., s. to VA, MO, TX, and NM. Peripheral.
 MONTANA COUNTIES: Big Horn, Rosebud
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Swales, shores, prairies and plains, and open woods, 1190-1220 m (3,900-4,000 ft.).
 PHENOLOGY: Mature fruit in July.
 COMMENTS: This peripheral species is located in areas that are underlain by coal deposits.

SCIENTIFIC NAME: *CYPRIPEDIUM FASCICULATUM* Kell.
 COMMON NAME: Clustered lady's-slipper
 FAMILY: Orchidaceae (Orchid Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: 3C
 USFS STATUS: Watch List
 STATUS IN OTHER STATES: Sensitive in ID, threatened in WA.
 GLOBAL DISTRIBUTION: WA to nw. MT, south to CA, nw. UT and nw. CO. Peripheral.
 MONTANA COUNTIES: Lake
 LAND OWNERSHIP: Flathead Indian Reservation, Flathead N.F.(?), private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Mission Range
 HABITAT: Dry to moist forests in the montane zone, 1070-1250 m (3,500-4,100 ft.)
 PHENOLOGY: Flowering in late June to early August
 COMMENTS: Only one population of clustered lady's-slipper has been relocated in Montana. Populations are threatened by residential development and timber harvest activities. Distribution data for this species are presented in Brownell and Catling (1987).

SCIENTIFIC NAME: *ELEOCHARIS ROSTELLATA* (Torr.) Torr.
 COMMON NAME: Beaked spike-rush
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., sensitive in WA
 GLOBAL DISTRIBUTION: B.C. to N.S., south to FL, TX, and Mexico; S. America. Sparse.
 MONTANA COUNTIES: Lake, Madison, Meagher, Park, Sanders, Teton
 LAND OWNERSHIP: State, private
 PHYSIOGRAPHIC DISTRIBUTION: Intermountain valleys
 HABITAT: Wet, often alkaline soils, usually associated with warm springs or fens in the valley and foothills zones, 915-1675 m (3,000-5,500 ft.)
 PHENOLOGY: Mature fruit in July and August
 COMMENTS: This species is threatened by development of thermal areas for recreation.

SCIENTIFIC NAME: *EPIPACTIS GIGANTEA* Dougl. ex Hook.
 COMMON NAME: Giant helleborine
 FAMILY: Orchidaceae (Orchid Family)
 MONTANA STATUS: Threatened
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in B.C., category 2 (threatened) in ID, critically rare in SD, sensitive in WA, rare in WY
 GLOBAL DISTRIBUTION: B.C. s. to Baja CA, and in most of w. U.S. to the Rocky Mtns. and s. to n. Mexico. Sparse.
 MONTANA COUNTIES: Carbon, Flathead, Granite, Lake, Madison, Powell, Teton
 LAND OWNERSHIP: Flathead N.F., Lewis & Clark N.F., state, private, Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Front Range Mtns., Pryor Mtn., Tobacco Root Mtns., Flathead River and Clark Fork River drainages
 HABITAT: Streambanks, lake margins, and around springs and seepage areas, often near thermal waters, 885-1755 m (2,900-5,750 ft.)
 PHENOLOGY: Flowering in June-August
 COMMENTS: This is the only native member of its genus in Canada and the United States.

SCIENTIFIC NAME: *GENTIANA GLAUCA* Pall.
 COMMON NAME: Glaucous gentian
 FAMILY: Gentianaceae (Gentian Family)
 MONTANA STATUS: Threatened
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in WA
 GLOBAL DISTRIBUTION: AK south to WA and nw. MT.
 Peripheral.
 MONTANA COUNTIES: Flathead
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Wet, boggy tundra in the alpine zone, ca.
 2440 m (8,000 ft.)
 PHENOLOGY: Flowering in late July and early August
 COMMENTS: The only known Montana population is small
 and in close proximity to a major hiking trail.

SCIENTIFIC NAME: *GENTIANOPSIS SIMPLEX* (A. Gray) Iltis
 COMMON NAME: Hiker's gentian
 FAMILY: Gentianaceae (Gentian Family)
 PERTINENT SYNONYMS: *Gentiana simplex* Gray;
Gentiana simplex Gillett
 MONTANA STATUS: Threatened
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: Cascades of OR from Deschutes
 Co. s. to the Sierra Nevada of c. CA, and e. through
 OR to c. ID and w. and s.-central MT. Peripheral.
 MONTANA COUNTIES: Beaverhead, Carbon, Missoula
 LAND OWNERSHIP: Beaverhead N.F., Custer N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Absaroka-Beartooth Mtns.,
 Bitterroot Mtns., Beaverhead Mtns.
 HABITAT: Mountain bogs, meadows, and seepage areas,
 1340-2560 m (4,400-8,400 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: In Montana, this species is known from only
 three sites; the station in Carbon County is the
 easternmost site in the species' range, and is
 disjunct by approximately 320 km east from the
 Beaverhead County location. Populations are
 threatened by timber harvesting and livestock
 grazing.

SCIENTIFIC NAME: *HOWELLIA AQUATILIS* A. Gray
 COMMON NAME: Water Howellia
 FAMILY: Campanulaceae (Bellflower Family)
 MONTANA STATUS: Threatened
 GLOBAL AND STATE RANKS (TNC): G2/S2
 USFWS STATUS: C1
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Presumed extinct in CA,
 endangered in ID, endangered in OR, endangered in WA
 GLOBAL DISTRIBUTION: Northwestern MT, n. ID, and WA;
 historically known in CA, OR. Sparse.
 MONTANA COUNTIES: Lake, Missoula
 LAND OWNERSHIP: Flathead N.F., Burlington Northern,
 private
 PHYSIOGRAPHIC DISTRIBUTION: Swan River drainage
 HABITAT: In quiet water of vernal glacial pothole
 ponds and oxbow sloughs; 945-1350 m (3,100-4,420
 ft.)
 PHENOLOGY: Flowering and fruiting from late June to
 August
 COMMENTS: In Montana this annual species, which
 comprises a monotypic genus, is currently known only
 from the Swan River valley. The forest habitats
 adjacent to approximately half of the populations
 have been disturbed by logging and road
 construction.

SCIENTIFIC NAME: *MIMULUS PRIMULOIDES* Benth.
 COMMON NAME: Primrose monkey-flower
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Threatened
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: WA to CA, e. to sw. MT and AZ.
 Peripheral.
 MONTANA COUNTIES: Beaverhead, Ravalli
 LAND OWNERSHIP: Beaverhead N.F., Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Pioneer
 Mtns., Beaverhead Mtns.
 HABITAT: Fens, sphagnum bogs and wet meadows at
 moderate to rather high elevations in the mountains;
 1220-2440 m (4,000-8,000 ft.)
 PHENOLOGY: Flowering July through early September
 COMMENTS: One site for this plant is adjacent to a
 ski area parking area. Other sites are threatened
 by livestock grazing.

SCIENTIFIC NAME: *NYMPHAEA TETRAGONA* Georgi
 COMMON NAME: Pygmy water-lily
 FAMILY: Nymphaeaceae (Water-lily Family)
 MONTANA STATUS: Threatened
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.,
 extirpated in ID, rare in Sask., sensitive in WA.
 GLOBAL DISTRIBUTION: AK, Ont., Que., and ME, south to
 MI, MT, n. ID, and WA. Peripheral.
 MONTANA COUNTIES: Flathead, Lake
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Upper Flathead River
 drainage
 HABITAT: Freshwater lakes and sloughs in the valley
 zone, 880-910 m (2,900-3,000 ft.)
 PHENOLOGY: Flowering in late July and August
 COMMENTS: This plant is known from only four
 locations in Montana. Populations are threatened by
 agricultural and residential pollution.

SCIENTIFIC NAME: *OENOTHERA PALLIDA* Lindl.
 var. *IDAHOENSIS* Munz
 COMMON NAME: Idaho pale evening-primrose
 FAMILY: Onagraceae (Evening-primrose Family)
 MONTANA STATUS: Threatened
 GLOBAL AND STATE RANKS (TNC): G5T4Q/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southeast ID and adjacent MT.
 The species as a whole occurs from e. WA and OR,
 east to MT, NM, and AZ. Regional endemic.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District; private
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley
 HABITAT: Open, sandy soil of sandhills and dunes in
 the valley and foothill zones, 2010 m (6,600 ft.)
 PHENOLOGY: Flowering in July and early August
 COMMENTS: In Montana, this plant is known from only a
 few small colonies at one site. This population may
 be threatened by livestock grazing.

THREATENED

SCIENTIFIC NAME: *PENSTEMON LEMHIENSIS* (Keck) Cronq.

COMMON NAME: Lemhi beardtongue

FAMILY: Scrophulariaceae (Figwort Family)

PERTINENT SYNONYMS: *P. speciosus* Dougl. ssp.

lemhiensis Keck

MONTANA STATUS: Threatened

GLOBAL AND STATE RANKS (TNC): G3/S2

USFWS STATUS: C2

USFS STATUS: Sensitive List

STATUS IN OTHER STATES: Threatened in ID

GLOBAL DISTRIBUTION: Southwestern MT and adjacent

Lemhi Co., ID. Regional endemic.

MONTANA COUNTIES: Beaverhead, Ravalli

LAND OWNERSHIP: Beaverhead N.F.; Bitterroot N.F.;

BLM, Butte District; private

PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River, Big

Hole River, Bitterroot River drainages

HABITAT: Open sagebrush/bunchgrass areas, often near

the lower treeline, from moderate to rather high

elevations in the mountains; 1300-2470 m

(4,280-8,100 ft.)

PHENOLOGY: Flowering in late June and July

COMMENTS: This species is a regional endemic with a

restricted geographic range. Historically known

populations in Ravalli Co. were rediscovered in

1989. Population size tends to be small, and some

sites are currently threatened by grazing and

mining.

SCIENTIFIC NAME: *PSORALEA HYPOGAEA* Nutt.

COMMON NAME: Subterranean bread-root, little

breadroot scurf-pea

FAMILY: Fabaceae (Pea Family)

MONTANA STATUS: Threatened

GLOBAL AND STATE RANKS (TNC): G3/G4/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Eastern MT and WY, south to NM

and TX. Peripheral.

MONTANA COUNTIES: Cascade, Chouteau, Rosebud

LAND OWNERSHIP: BLM, Lewistown District; private

PHYSIOGRAPHIC DISTRIBUTION: Great Plains

HABITAT: Sandy soils of grasslands and ponderosa pine

savannahs on the plains, ca. 915 m (3,000 ft.)

PHENOLOGY: Flowering in early June

COMMENTS: This perennial may be apparent only in

spring and early summer. The Cascade Co. collection

is nearly 100 years old. Rosebud Co. populations

are threatened by mining.

SCIENTIFIC NAME: *SELAGINELLA WATSONII* Underw.

COMMON NAME: Watson's selaginella

FAMILY: Selaginellaceae (Spike Moss Family)

MONTANA STATUS: Threatened

GLOBAL AND STATE RANKS (TNC): G4/G5/S1

USFWS STATUS: None

USFS STATUS: Sensitive

STATUS IN OTHER STATES: Watch list in OR

GLOBAL DISTRIBUTION: UT, NV, and c. and s. CA, with

single isolated stations in the Wallawa Mtns. of OR,

and Pioneer Mtns. of MT. Disjunct.

MONTANA COUNTIES: Beaverhead, reported for Carbon

LAND OWNERSHIP: Beaverhead N.F., Custer N.F.(?)

PHYSIOGRAPHIC DISTRIBUTION: Pioneer Mtns., reported

for Beartooth Mtns.

HABITAT: Exposed, rocky sites at middle and upper

altitudes in the mountains, sometimes above

timberline; 2744-2988 m (9,000-9,800 ft.)

COMMENTS: The location in the Pioneer Mountains

(Comet Mountain) has not been verified since 1921.

The site may be threatened by mining activity.

SCIENTIFIC NAME: *SILENE SPALDINGII* Wats.

COMMON NAME: Spalding's catchfly, Spalding campion

FAMILY: Caryophyllaceae (Pink Family)

MONTANA STATUS: Threatened

GLOBAL AND STATE RANKS (TNC): G2/S1

USFWS STATUS: C2

USFS STATUS: Watch List

STATUS IN OTHER STATES: Threatened in WA, threatened

in ID, threatened in OR

GLOBAL DISTRIBUTION: Southeastern B.C., se. WA, ne.

OR, n. ID, and nw. MT. Regional endemic.

MONTANA COUNTIES: Flathead, Lake, Lincoln, Sanders

LAND OWNERSHIP: State, private

PHYSIOGRAPHIC DISTRIBUTION: Upper Flathead River

drainage, Tobacco Valley

HABITAT: Wheatgrass-fescue grassland in the valley

and foothill zones, 820-1010 m (2,700-3,300 ft.)

PHENOLOGY: Flowering in July

COMMENTS: Most Montana populations of Spalding's

catchfly are small and are threatened by livestock

grazing and agricultural and residential

development. The Flathead Co. population cannot be

relocated and is presumed extinct.

SCIENTIFIC NAME: *THELYPTERIS PHEGopteris* (L.) Slosson

COMMON NAME: Narrow beechfern, beechfern, northern

beechfern

FAMILY: Polypodiaceae (Fern Family)

MONTANA STATUS: Threatened

GLOBAL AND STATE RANKS (TNC): G5/S1

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: Rare in Alta., rare in Sask.

GLOBAL DISTRIBUTION: AK, Ont., and Lab., south to WA,

nw. MT, MN, IL, and NC. Peripheral.

MONTANA COUNTIES: Flathead, Glacier, Lincoln

LAND OWNERSHIP: Kootenai N.F., Glacier National Park

PHYSIOGRAPHIC DISTRIBUTION: Cabinet Mtns., Lewis

Range

HABITAT: Moist forests and shaded cliffs, 1220-2010 m

(4,000-6,600 ft.)

PHENOLOGY: Mature fronds in August

COMMENTS: One Glacier Park population is small and

adjacent to a popular hiking trail. The Cabinet

Mtns. population is threatened by mining.

SCIENTIFIC NAME: *VACCINIUM MYRTILLOIDES* Michx.

COMMON NAME: Myrtle-leaf bilberry, velvetleaf

blueberry

FAMILY: Ericaceae (Heath family)

MONTANA STATUS: Threatened

GLOBAL AND STATE RANKS (TNC): G5/S1

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: None

GLOBAL DISTRIBUTION: Boreal N. America, south to WA,

nw. MT, IA, and VA. Peripheral.

MONTANA COUNTIES: Flathead

LAND OWNERSHIP: Glacier National Park

PHYSIOGRAPHIC DISTRIBUTION: Upper Flathead River

drainage

HABITAT: Moist to rather dry forests in the montane

zone 980-1580 m (3,200-5,200 ft.)

PHENOLOGY: Flowering in mid-June, mature fruit in

mid-August

COMMENTS: The two locations in Glacier Park are the

only known locations for this species in Montana and

the Northern Rocky Mountains. The largest

population may be threatened by development.

THREATENED

SCIENTIFIC NAME: *WALDSTEINIA IDAHOENSIS* Piper
COMMON NAME: Idaho barren strawberry
FAMILY: Rosaceae (Rose Family)
MONTANA STATUS: Threatened
GLOBAL and STATE RANKS (TNC): G3/S1
USFWS STATUS: 3C
USFS STATUS: None
STATUS IN OTHER STATES: Monitor List in ID
GLOBAL DISTRIBUTION: Central ID and adjacent MT.
Regional endemic.
MONTANA COUNTIES: Missoula
LAND OWNERSHIP: Private
PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
HABITAT: Open ponderosa pine forest in the montane
zone, 1280 m (4,200 ft)
PHENOLOGY: Flowering in June
COMMENTS: The only known population is adjacent to a
heavily used logging road.

SCIENTIFIC NAME: **ADOXA MOSCHATELLINA** L.
 COMMON NAME: Musk-root
 FAMILY: Adoxaceae (Moschatel Family)
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., rare in SD, rare in Sask.
 GLOBAL DISTRIBUTION: Circumboreal, extending s. in N. America to CO, IA, and NY. Sparse.
 MONTANA COUNTIES: Granite, Jefferson, Stillwater
 LAND OWNERSHIP: Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Mountains of sw. Montana, foothills of Absaroka-Beartooth Mtns.
 HABITAT: Moist, often mossy places in woods and rock crevices, 1340-1645 m (4,400- 5,400 ft.)
 PHENOLOGY: Flowering and fruiting from June-August
 COMMENTS: The collections in Jefferson and Stillwater counties were made in 1892 and 1923, respectively. The only recently located population is small.

SCIENTIFIC NAME: **AGOSERIS LACKSCHEWITZII** Henderson & Moseley
 COMMON NAME: Pink agoseris
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S2
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Sensitive in ID
 GLOBAL DISTRIBUTION: East-central ID, w. MT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Cascade, Deer Lodge, Judith Basin, Meagher, Madison, Park, Silver Bow
 LAND OWNERSHIP: Beaverhead N.F., Deerlodge N.F., Gallatin N.F., Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Mtns., Tobacco Root Mtns., Crazy Mtns., Beaverhead Mtns., Little Belt Mtns., near Continental Divide southwest of Butte
 HABITAT: Subalpine wet meadows where soil is saturated throughout growing season, ca. 2590-2900 m (8,500-9,500 ft.)
 PHENOLOGY: Flowering in July and early August, fruiting in late August
 COMMENTS: Recently described by Henderson et al. (1990).

SCIENTIFIC NAME: **ALLIUM ACUMINATUM** Hook.
 COMMON NAME: Tapertip onion
 FAMILY: Liliaceae (Lily Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: E. of the Cascade Mtns. in WA and OR, to sw. MT, s. WY, w. CO, AZ, and n. CA; also Vancouver, B.C., San Juan Islands, and w. WA west of the Cascades. Peripheral.
 MONTANA COUNTIES: Ravalli; historically known in Madison
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Mtns., Madison Range.
 HABITAT: Dry hills and plains, 1950-2440 m (6,400-8,000 ft.)
 PHENOLOGY: May-July
 COMMENTS: There is currently only one known location in Montana. This species is peripheral in southwestern Montana; it is more common to the west and south.

SCIENTIFIC NAME: **ALLIUM PARVUM** Kell.
 COMMON NAME: Dwarf onion
 FAMILY: Liliaceae (Lily Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern OR to CA, east to ID, NV and sw. MT. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Upper Bitterroot River drainage
 HABITAT: Shallow soil and cliffs in the foothills and lower montane zones, 1300-1700 m (4,350-5,600 ft.)
 PHENOLOGY: Flowering in late May and June
 COMMENTS: Presently, only three populations are known in Montana.

SCIENTIFIC NAME: **ALLIUM SIMILLIMUM** Henderson
 COMMON NAME: Dwarf onion
 FAMILY: Liliaceae (Lily Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central and sw. ID, sw. MT. Regional endemic.
 MONTANA COUNTIES: Ravalli; historically known in Gallatin
 LAND OWNERSHIP: Bitterroot N.F.; Gallatin N.F.(?)
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range, Yellowstone region
 HABITAT: Open slopes and meadows, in gravelly soils of granitic, calcareous, or basaltic origin, 1950-2285 m (6,400-7,500 ft.)
 PHENOLOGY: Flowering in June-July
 COMMENTS: The four recent records for this species are all from Ravalli County; it was also found in 1947 in Gallatin County, in the vicinity of Targhee Pass.

SCIENTIFIC NAME: **AMMANIA COCCINEA** Rottb.
 COMMON NAME: Scarlet ammania
 FAMILY: Lythraceae (Loosestrife Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Most of continental U.S., south to South America. Sparse.
 MONTANA COUNTIES: Garfield, Philips
 LAND OWNERSHIP: Private(?), BLM(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Moist, heavy soil around ponds or other wet areas on the plains
 PHENOLOGY: Blooming throughout the growing season as moisture permits
 COMMENTS: This species has not been collected in Montana for nearly 50 years.

SCIENTIFIC NAME: *ANTENNARIA DENSIFOLIA* Pors.
 COMMON NAME: Tufted pussytoes
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northwest Can.; sw. MT.
 Disjunct.
 MONTANA COUNTIES: Granite
 LAND OWNERSHIP: Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Mtns.
 HABITAT: Limestone talus near or above timberline
 PHENOLOGY: Flowering in July and August
 COMMENTS: There is only one location for this species
 in Montana and the U.S. It is near a major hiking
 and pack trail.

SCIENTIFIC NAME: *AQUILEGIA BREVISTYLA* Hook.
 COMMON NAME: Short-styled columbine
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: AK and n. B.C., s. to SD and MT.
 Peripheral.
 MONTANA COUNTIES: Judith Basin, Sweet Grass
 LAND OWNERSHIP: Lewis & Clark N.F., Gallatin N.F.(?),
 private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Little Belt Mountains,
 possibly Absaroka Mtns.
 HABITAT: Open woods and stream banks at
 mid-elevations in the mountains, ca. 1525-1830 m
 (5,000-6,000 ft.)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: The identity of the specimen from Sweet
 Grass County remains uncertain. Hybrids between *A.*
jonessii and *A. flavescens* have been mistaken for *A.*
brevistyla.

SCIENTIFIC NAME: *AQUILEGIA FORMOSA* Fisch. ex DC.
 COMMON NAME: Sitka columbine
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta.
 GLOBAL DISTRIBUTION: Western N.A., from s. AK
 southward, along the coast and in the coastal mtns.,
 to n. Baja CA, e. to w. Alberta and MT and to UT.
 Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: Red Rock Lakes N.W.R., Beaverhead
 N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Mtns.,
 Centennial Valley
 HABITAT: Grasslands to woods, 2040-2500 m
 (6,700-8,200 ft.).
 PHENOLOGY: Flowering June-July.
 COMMENTS: This species is very similar to *A.*
flavescens and is sometimes hard to distinguish from
 it.

SCIENTIFIC NAME: *ARABIS LYRATA* L.
 COMMON NAME: Lyre-leaved rockcress
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: AK to MA, south to WA, MT, MO
 and GA. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Open, rocky slopes in the montane and
 subalpine zones, 1460-2285 m (4,800-7,500 ft)
 PHENOLOGY: Flowering in July
 COMMENTS: One of the two Montana collections was made
 over 70 years ago. Our plants are var. *kamchatica*
 Fisch.

SCIENTIFIC NAME: *ARENARIA KINGII* (Wats.) Jones
 COMMON NAME: King's sandwort, King's arenaria
 FAMILY: Caryophyllaceae (Pink Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: Southeast OR to CA, east to sw.
 MT, w. WY and UT. Peripheral.
 MONTANA COUNTIES: Beaverhead, Broadwater
 LAND OWNERSHIP: Beaverhead N.F., Helena N.F.,
 state(?), private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Mtns., Big
 Belt Mtns., Big Hole River drainage
 HABITAT: Rocky soil of open slopes in the subalpine
 and alpine zones, 1585-2925 m (5,200-9,600 ft.)
 PHENOLOGY: Flowering in July

SCIENTIFIC NAME: *ARTEMISIA NORVEGICA* Fries
 COMMON NAME: Boreal wormwood
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: *A. arctica* Less. ssp. *arctica*
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G2/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Nearly or wholly circumboreal,
 extending s. in the mtns. to CA and CO. Sparse.
 MONTANA COUNTIES: Gallatin, Glacier
 LAND OWNERSHIP: Glacier N.P., Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bridger Range, Lewis
 Range
 HABITAT: Talus slopes, rock outcrops, and open woods
 at high elevations in the mtns., ca. 2440-2745 m
 (8,000-9,000 ft)
 PHENOLOGY: Flowering July-September.
 COMMENTS: Two historical collections (1897, 1903) of
 this species were made in Glacier National Park; it
 was last collected in Montana in 1958, in the
 Bridger Range. Our plants are var. *saxatilis*
 (Bess.) Jeps.

SCIENTIFIC NAME: *ASCLEPIAS STENOPHYLLA* Gray
 COMMON NAME: Narrow-leaved milkweed
 FAMILY: Asclepiadaceae (Milkweed Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: Western IL to w. AR, west to e. MT, CO, and TX. Peripheral.
 MONTANA COUNTIES: Carter
 LAND OWNERSHIP: State
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Sandy soil of grasslands in the plains, ca. 1000 m (3,300 ft.)
 PHENOLOGY: Flowering in late June and early July
 COMMENTS: Narrow-leaved milkweed is currently known from only one site in Montana.

SCIENTIFIC NAME: *ASPLENIUM TRICHOMANES* L.
 COMMON NAME: Maidenhair spleenwort
 FAMILY: Polypodiaceae (Fern Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Possibly extirpated in ID; historical in SD; S1 in WY
 GLOBAL DISTRIBUTION: Intermittently circumboreal, extending s., in America, to OR, AZ, TX, and GA, apparently absent from CA, NV, and UT. Sparse.
 MONTANA COUNTIES: Flathead, reported for Lake
 LAND OWNERSHIP: Flathead N.F.(?), Glacier National Park(?), Flathead Indian Res.(?)
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Mtns.(?), Livingston Range(?), Mission Mtns.(?)
 HABITAT: Rock crevices and talus slopes, usually where moist, at mid-elevations in the mountains
 PHENOLOGY: Mature fronds in July.
 COMMENTS: This species is positively known in Montana from only one collection (Flathead Co.), which was taken nearly 100 years ago.

SCIENTIFIC NAME: *ASTER FRONDOSUS* (Nutt.) T. & G.
 COMMON NAME: Short-rayed aster, alkali aster
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA to w. MT, south to CA, UT, and WY. Peripheral.
 MONTANA COUNTIES: Sanders
 LAND OWNERSHIP: Flathead Indian Reservation
 PHYSIOGRAPHIC DISTRIBUTION: Little Bitterroot River drainage
 HABITAT: Drying, usually saline mud along the margins of ponds and lakes in the valley zone; ca. 910 m (3,000 ft.)
 PHENOLOGY: Flowering August through October
 COMMENTS: This species is known from only one location in Montana. A report for Sheridan Co. (Dorn 1984) is probably based on a mislabeled specimen.

SCIENTIFIC NAME: *ASTER PTARMICOIDES* (Nees) T. & G.
 COMMON NAME: Sneezewort aster
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: *Solidago ptarmicoides* (Nees) Boivin
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northern Great Plains, Quebec and NY to MO, w. to GP; locally in NC, GA, AR. Peripheral.
 MONTANA COUNTIES: Richland, Wibaux
 LAND OWNERSHIP: Private?
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Open, dry prairies, often on limestone bluffs or sandy sites, 615 m (2,020 ft.)
 PHENOLOGY: Flowering August-September
 COMMENTS: This species is placed in the genus *Aster* by Dorn (1984), but is considered to be in the genus *Solidago* by the Great Plains Flora Association (1986). The Wibaux County record is based on a report by the Great Plains Flora Association (1977).

SCIENTIFIC NAME: *ASTRAGALUS ARGOPHYLLUS* Nutt. var. *ARGOPHYLLUS*
 COMMON NAME: Silver-leaved milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: East-central ID and sw. MT south to nw. WY and UT. The range of the species as a whole is ID to e. CA, east to sw. MT and CO. Peripheral.
 MONTANA COUNTIES: Beaverhead, Madison
 LAND OWNERSHIP: Beaverhead N.F.; private
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Mtns., Centennial Mtns., Gravelly Range
 HABITAT: Moist or wet, usually alkaline meadows or sagebrush grasslands in the foothills and montane zones, 1950-2100 m (6,400-6,900 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: Most known populations of this plant in Montana are small.

SCIENTIFIC NAME: *ASTRAGALUS CERAMICUS* Sheld. var. *APUS* Barneby
 COMMON NAME: Idaho painted milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4T3/S1
 USFWS STATUS: 3C
 USFS STATUS: None
 STATUS IN OTHER STATES: Monitor list in ID.
 GLOBAL DISTRIBUTION: Southeastern ID and extreme sw. MT. The species as a whole occurs from ID to ND south to OK, AZ, and NM. Regional endemic.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District; private
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley
 HABITAT: Open, very sandy soil in sandhills and adjacent Sagebrush grassland in the foothills zone, 2010 m (6,600 ft.)
 PHENOLOGY: Flowering in late June and July
 COMMENTS: This plant is locally common at the one known Montana site.

SENSITIVE

SCIENTIFIC NAME: **ASTRAGALUS CONVALLARIUS** Greene
 COMMON NAME: Timber milkvetch, lesser rushy milkvetch
 FAMILY: Fabaceae (Pea Family)
 PERTINENT SYNONYMS: A. diversifolius Gray
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Snake River drainage, se. ID to sw. MT, s. to WY and UT. Peripheral.
 MONTANA COUNTIES: Beaverhead, Broadwater, Lewis & Clark
 LAND OWNERSHIP: Beaverhead N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Upper Missouri River drainage, Beaverhead Mtns.
 HABITAT: Grasslands and sagebrush areas in the valleys and foothills, 1180-2470 m (3,880-8,100 ft.)
 PHENOLOGY: Flowering from May-early July, depending on elevation
 COMMENTS: This species is considered to be synonymous with A. diversifolius by Dorn (1984).

SCIENTIFIC NAME: **ASTRAGALUS GEYERI** Gray
 COMMON NAME: Geyer's milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in WA
 GLOBAL DISTRIBUTION: Southeast OR to CA and NV, eastward, through the Snake River drainage of s. ID, to MT, WY and UT. Disjunct.
 MONTANA COUNTIES: Dawson, Garfield
 LAND OWNERSHIP: State; Private(?); BLM, Lewistown District(?)
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Sandy hills, plains, and dunes, ca. 610 m (2,000 ft.)
 PHENOLOGY: Flowering and fruiting in June

SCIENTIFIC NAME: **ASTRAGALUS GRAYI** Parry
 COMMON NAME: Gray's milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT and w. WY. Regional endemic.
 MONTANA COUNTIES: Big Horn, Carbon
 LAND OWNERSHIP: BLM, Miles City District; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtn.- Big Horn Canyon area
 HABITAT: Open soil and disturbed areas in sagebrush grasslands in the valley zone, 1130-1280 m (3,700-4,200 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: Two of the four Montana collections are from roadside habitats.

SCIENTIFIC NAME: **ASTRAGALUS LEPTALEUS** Gray
 COMMON NAME: Park milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch List
 STATUS IN OTHER STATES: Category 1 (endangered) in ID, rare in WY
 GLOBAL DISTRIBUTION: Western MT south to nw WY, ec. ID and CO. Sparse.
 MONTANA COUNTIES: Beaverhead, Lake(?), Madison, Park
 LAND OWNERSHIP: BLM, Butte District; Beaverhead N.F.; private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Lake region, Beaverhead River drainage, southwest mountain ranges
 HABITAT: Moist or wet, often alkaline meadows in the valley, foothills, and montane zones, 910?-2740 m (3,000?-9,000 ft.)
 PHENOLOGY: Flowering from June through August, depending on elevation
 COMMENTS: This species is reported by Barneby (1964) for Flathead Lake. The only collections within the last 70 years are from Beaverhead County. Plants are inconspicuous.

SCIENTIFIC NAME: **ASTRAGALUS MOLYBDENUS** Barneby
 COMMON NAME: Leadville milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive List
 GLOBAL DISTRIBUTION: Central CO, nw. MT. Disjunct.
 MONTANA COUNTIES: Teton
 LAND OWNERSHIP: Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Front Range Mtns.
 HABITAT: Turfy areas and talus slopes, on calcareous substrates at or above timberline, 2215-2475 m (7,260-8,120 ft.)
 PHENOLOGY: Flowering and fruiting in July-August
 COMMENTS: The sites in Montana are widely disjunct from those in Colorado. This species is closely related to A. shultziorum, which is found in high elevation limestone areas in western Wyoming; systematic studies of these two species are in progress.

SCIENTIFIC NAME: **ASTRAGALUS OREGANUS** Nutt.
 COMMON NAME: Wind River milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Western WY and sc. MT. Regional endemic.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.(?); private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area
 HABITAT: Open, sandy or clayey soil in desert shrublands and sagebrush grassland in the valley zone, ca. 1500 m (5,000 ft.)
 PHENOLOGY: Flowering in June, fruiting in July
 COMMENTS: Wind River milkvetch is currently known from only two sites in Montana. Both sites are probably subject to livestock grazing.

SCIENTIFIC NAME: **ASTRAGALUS PLATTYROPIS** Gray
 COMMON NAME: Broad-keeled milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Review list in ID
 GLOBAL DISTRIBUTION: Southwestern MT and c. ID, s. through NV to the Sierras of CA. Peripheral.
 MONTANA COUNTIES: Beaverhead, Madison
 LAND OWNERSHIP: BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: East flanks of Pioneer Range, north flanks of Tobacco Root Range
 HABITAT: Moderate elevations on open benchland in sagebrush areas, usually on calcareous substrates; 1585-1950 m (5,200-6,400 ft.)
 PHENOLOGY: Flowering April-May, fruiting June
 COMMENTS: The stations in Montana and Idaho are widely separated from the main range of the species, and are at much lower elevations. Populations are small with widely dispersed individuals.

SCIENTIFIC NAME: **ASTRAGALUS RACEMOSUS** Pursh
 COMMON NAME: Alkali milkvetch, raceme milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Sask. and MN south to TX and NM. Peripheral.
 MONTANA COUNTIES: Carter, Fallon
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Usually in heavy soil in grasslands on the plains, ca. 910 m (3,000 ft.)
 PHENOLOGY: Flowering in late June and early July
 COMMENTS: The distribution of this plant in Montana is poorly known. Our plants are var. longisetus Jones.

SCIENTIFIC NAME: **ASTRAGALUS SCAPHOIDES** (Jones) Rydb.
 COMMON NAME: Bitterroot milkvetch
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: C2
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Lemhi Co., ID and Beaverhead Co., MT. Regional endemic.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District; State; private
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River drainage
 HABITAT: Silty, often stony soil in sagebrush grassland in the valley and foothill zones, 1740-1920 m (5,700-6,300 ft.)
 PHENOLOGY: Flowering in late May and early June, mature fruit in July
 COMMENTS: All of the known populations in Montana are subject to livestock grazing. This species could be confused with the more widespread A. atopubescens.

SCIENTIFIC NAME: **ATHYSANUS PUSILLUS** (Hook.) Greene
 COMMON NAME: Sandweed
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern B.C. to CA, east to MT, ID, and UT. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Vernal moist, shallow soil on open, rock outcrops and along small drainages in the foothill and montane zones, 1200-1525 m (4,000-5,000 ft.)
 PHENOLOGY: Flowering in April and May
 COMMENTS: This small, early-blooming plant is easily overlooked and may be more common than records indicate.

SCIENTIFIC NAME: **ATRIplex TRUNCATA** (Torrey) Gray
 COMMON NAME: Wedgescale
 FAMILY: Chenopodiaceae (Goosefoot Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in Sask.
 GLOBAL DISTRIBUTION: B.C. and Sask., south to CA and NM. Sparse.
 MONTANA COUNTIES: Beaverhead, Lake, Lewis & Clark
 LAND OWNERSHIP: Private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley, Flathead Valley, Helena Valley
 HABITAT: Alkaline areas, ca. 915 m (3,000 ft.)
 PHENOLOGY: Flowering and fruiting August-September
 COMMENTS: In Montana, this species is known only from three historical collections (1899, 1908, 1952).

SCIENTIFIC NAME: **BACOPA ROTUNDIFOLIA** (Michx.) Wettst.
 COMMON NAME: Roundleaf water-hyssop
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Category 1 (endangered) in ID
 GLOBAL DISTRIBUTION: IN to MT, south to MS, LA and TX; sporadically recurring in ID and CA. Sparse.
 MONTANA COUNTIES: Cascade, Petroleum, Phillips
 LAND OWNERSHIP: BLM, Lewistown District; private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Muddy shores and shallow ponds; 750 m (2,460 ft.)
 PHENOLOGY: Flowering and fruiting June-August
 COMMENTS: This species may be more common than records indicate. The Cascade Co. collection is 100 years old.

SENSITIVE

SCIENTIFIC NAME: *BALSAMORHIZA MACROPHYLLA* Nutt.
 COMMON NAME: Large-leaved balsamroot
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: N. UT, se. ID, through w. WY to the n. edge of the Snake R. plains, thence e. to Clark Co., ID, and n. to Gallatin Co., MT. Peripheral.
 MONTANA COUNTIES: Gallatin
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Madison Range, Gallatin Range
 HABITAT: Open hills, 2130-2600 m (7,000-8,500 ft.)
 PHENOLOGY: Flowering in late June and early July
 COMMENTS: The two historical collections in Gallatin Co. (1928, 1931) were searched for in 1989; only one was relocated.

SCIENTIFIC NAME: *BIDENS COMOSA* (Gray) Wieg.
 COMMON NAME: Beggar-ticks
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: *B. tripartita* L. (in part)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: ID to Que., south to NC, LA, and NM. Peripheral.
 MONTANA COUNTIES: Phillips, Richland
 LAND OWNERSHIP: private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains, Yellowstone River
 HABITAT: Moist soil along rivers, streams and ponds on the plains
 PHENOLOGY: Flowering in August and September

SCIENTIFIC NAME: *BIDENS VULGATA* Greene var. *SCHIZANTHA* Lunnell
 COMMON NAME: Tall burr-marigold
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5T7/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta.
 GLOBAL DISTRIBUTION: Alta to w. Ont. and ne. MT. The species as a whole ranges from Que. to CA, west to WA and CA, adventive elsewhere. Peripheral.
 MONTANA COUNTIES: Richland
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Drying mud at the edge of ponds on the plains
 PHENOLOGY: Flowering in August
 COMMENTS: This plant is known from only one location in Montana, which may also be the only location for it in the U.S.

SCIENTIFIC NAME: *BOISDUVALIA DENSIFLORA* (Lindl.) Wats.
 COMMON NAME: Dense spike-primrose
 FAMILY: Onagraceae (Evening-primrose Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to Baja Cal., east to nw. MT, ID, and NV. Peripheral.
 MONTANA COUNTIES: Sanders
 LAND OWNERSHIP: Flathead Indian Res.(?), private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Little Bitterroot River drainage
 HABITAT: Vernal wet soil, often around ponds in the valleys.
 PHENOLOGY: Unknown
 COMMENTS: This species has not been collected recently in Montana.

SCIENTIFIC NAME: *BOTRYCHUM HESPERIUM* (Maxon & Clausen) Wagner & Lellinger
 COMMON NAME: Western moonwort
 FAMILY: Ophioglossaceae (Graptophytes Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3T7/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Undetermined in SD
 GLOBAL DISTRIBUTION: Southwestern Alta., nw. Montana, and central CO. Regional endemic.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Flathead N.F., Glacier N.P., Blackfoot Indian Res.
 PHYSIOGRAPHIC DISTRIBUTION: Major valleys on both sides of the Lewis and Livingston ranges
 HABITAT: Meadows and grasslands in the valley and foothills zones, 940-1500 m (3,100-4,900 ft.)
 PHENOLOGY: Mature fronds in June and July
 COMMENTS: In the past, this species has been confused with *B. matricariifolium*. One population in Glacier National Park cannot be relocated and is presumed extirpated.

SCIENTIFIC NAME: *BOTRYCHUM MINGANENSE* Vict.
 COMMON NAME: Mingan Island moonwort
 FAMILY: Ophioglossaceae (Graptophytes Family)
 PERTINENT SYNONYMS: *B. lunaria* (L.) Sw. var. *minganense* (Vict.) Dole, *B. lunaria* ssp. *minganense* (Vict.) Calder & Taylor
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Rare in B.C., review list in ID, endangered in ND, sensitive in WA
 GLOBAL DISTRIBUTION: AK to Lab., south to NY, MI, MT, UT and OR. Sparse.
 MONTANA COUNTIES: Flathead, Glacier, Lake, Missoula
 LAND OWNERSHIP: Flathead N.F.; private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River and Clark Fork River drainages
 HABITAT: Moist meadows and woods, in acid to circumneutral soil, at low to high elevations, ca. 915-2135 m (3,000-7,000 ft.)
 PHENOLOGY: July and August, depending on elevation
 COMMENTS: This species is similar to *B. lunaria* and *B. crenulatum*. It may occur in successional microhabitats; thus some populations may be ephemeral.

SCIENTIFIC NAME: CALAMAGROSTIS TWEEDYI (Scribn.)
Scribn.

COMMON NAME: Cascade reedgrass
FAMILY: Poaceae (Grass Family)
MONTANA STATUS: Sensitive
GLOBAL AND STATE RANKS (TNC): G3/S2
USFWS STATUS: C2
USFS STATUS: Sensitive
STATUS IN OTHER STATES: Category 2 (threatened) in
ID, sensitive in WA
GLOBAL DISTRIBUTION: WA, n. ID, and w. MT.
Peripheral.
MONTANA COUNTIES: Mineral, Missoula, Ravalli, Sanders
LAND OWNERSHIP: Lolo N.F.
PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River and
Clark Fork River drainages
HABITAT: Usually growing in timber, sometimes in
open, recently logged areas, often with Carex
geyeri, 1280-1880 m (4,200-6,160 ft.)
PHENOLOGY: Flowering in July
COMMENTS: This species has been found to flower most
prolifically in more open areas.

SCIENTIFIC NAME: CALOCHORTUS BRUNEAUNIS Nels. &
Macbr.

COMMON NAME: Bruneau mariposa
FAMILY: Liliaceae (Lily Family)
PERTINENT SYNONYMS: C. nuttallii T. & G. var.
bruneaunis Owenby
MONTANA STATUS: Sensitive
GLOBAL AND STATE RANKS (TNC): G5/S3
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: OR, ID, and sw. MT, south to UT,
NV, and CA. Peripheral.
MONTANA COUNTIES: Madison
LAND OWNERSHIP: Beaverhead N.F.
PHYSIOGRAPHIC DISTRIBUTION: Gravelly Range
HABITAT: Sagebrush grasslands in the montane zone,
2100 m (6,900 ft.)
PHENOLOGY: Flowering in July
COMMENTS: The only Montana collection was made over
90 years ago. This species is very similar to the
more common C. nuttallii.

SCIENTIFIC NAME: CAMISSONIA ANDINA (Nutt.) Raven
COMMON NAME: Obscure evening-primrose
FAMILY: Onagraceae (Evening-primrose Family)
PERTINENT SYNONYMS: Oenothera andina Nutt.
MONTANA STATUS: Sensitive
GLOBAL AND STATE RANKS (TNC): G4/S1
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Rare in Alta., rare in B.C.
GLOBAL DISTRIBUTION: South-central B.C. to n. CA,
east to Alta., w. MT, WY, and UT. Peripheral.
MONTANA COUNTIES: Carbon, Missoula
LAND OWNERSHIP: BLM, Miles City District; private
PHYSIOGRAPHIC DISTRIBUTION: Missoula Valley, Pryor
Mtns.- Big Horn Canyon area
HABITAT: Open soil in grassland and sagebrush
grassland in the valley zone, 940-1650 m
(3,100-5,400 ft.)
PHENOLOGY: Flowering in May
COMMENTS: Currently known from only two locations in
Montana, this inconspicuous plant may be more common
than records indicate.

SCIENTIFIC NAME: CAMISSONIA MINOR (A. Nels.) Raven
COMMON NAME: Small-flowered evening-primrose
FAMILY: Onagraceae (Evening-primrose Family)
PERTINENT SYNONYMS: Oenothera minor (A. Nels.) Munz
MONTANA STATUS: Sensitive
GLOBAL AND STATE RANKS (TNC): G4/S1
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: Eastern WA to ne. CA and to n.
NV, e. to ID, MT, WY, and CO. Peripheral.
MONTANA COUNTIES: Carbon, Rosebud
LAND OWNERSHIP: BLM, Miles City District
PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn
Canyon area, Great Plains
HABITAT: Dry sandy or gravelly soil, 1040-1645 m
(3,420-5,400 ft.)
PHENOLOGY: Flowering May-June

SCIENTIFIC NAME: CAMISSONIA SCAPOIDEA (T. & G.) Raven
COMMON NAME: Naked-stemmed evening-primrose
FAMILY: Onagraceae (Evening-primrose Family)
PERTINENT SYNONYMS: Oenothera scapoidea T. & G.
MONTANA STATUS: Sensitive
GLOBAL AND STATE RANKS (TNC): G5/S1
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: OR to MT, south to CA, AZ, and
NM. Peripheral.
MONTANA COUNTIES: Carbon, Chouteau, Fergus
LAND OWNERSHIP: BLM, Miles City District, Lewistown
District
PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn
Canyon area, Missouri River Breaks
HABITAT: Open, often clay or shale-derived soils in
grassland or woodland habitats in the valley zone or
the plain, 730-1430 m (2,400-4,700 ft.)
PHENOLOGY: Flowering in May or June
COMMENTS: Populations of this species in Montana are
often small. Our plants are ssp. brachycarpa
(Raven) Raven.

SCIENTIFIC NAME: CAREX CHORDORRHIZA L.
COMMON NAME: Rope-root sedge, creeping sedge
FAMILY: Cyperaceae (Sedge Family)
MONTANA STATUS: Sensitive
GLOBAL AND STATE RANKS (TNC): G5/S1
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Category 1 (endangered) in
ID, endangered in ND
GLOBAL DISTRIBUTION: Circumboreal, south in N.
America to NY, IN, IA, and MT. Peripheral.
MONTANA COUNTIES: Flathead
LAND OWNERSHIP: Glacier N.P.
PHYSIOGRAPHIC DISTRIBUTION: Livingston Range
HABITAT: Sphagnum bogs in the montane zone, 1220-1520
m (4,000-5,000 ft.)
PHENOLOGY: Mature fruit in July
COMMENTS: The two locations in Glacier Park are the
only known sites in the western continental U.S.

SENSITIVE

SCIENTIFIC NAME: *CAREX CRAMEI* Dewey
 COMMON NAME: Craw's sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY, rare in B.C., rare in Alta.
 GLOBAL DISTRIBUTION: Que. to B.C., south to NJ, TN, MO, UT, and MT. Sparse.
 MONTANA COUNTIES: Pondera, Teton, reported for Beaverhead (Hitchcock and Cronquist 1973)
 LAND OWNERSHIP: State, Blackfoot Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Foothills of the Front Range
 HABITAT: Gravelly, calcareous shores of ponds and streams in the valley and foothill zones 1310-1490 m (4,300-4,900 ft.)
 PHENOLOGY: Mature fruit in July
 COMMENTS: Known populations in Teton Co. are small.

SCIENTIFIC NAME: *CAREX EURYCARPA* Holm
 COMMON NAME: Wide-fruit sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G7/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest WA to c. CA, not extending w. of the Cascade summits; also in the mtns. of n. and c. ID, and w. MT. Disjunct.
 MONTANA COUNTIES: Gallatin; historically known from Missoula
 LAND OWNERSHIP: Unknown
 PHYSIOGRAPHIC DISTRIBUTION: Western mtns.
 HABITAT: Wet meadows and margins of streams and lakes, 1670 m (5,480 ft.)
 PHENOLOGY: Fruiting in June
 COMMENTS: The specimen from Missoula County is too immature for certain identification based on the perigynia; however, according to L.A. Standley, the sheaths and bracts fit the description for *C. eurycarpa*.

SCIENTIFIC NAME: *CAREX PARRYANA* Dewey ssp. *IDAHOA* (Bailey) Murray
 COMMON NAME: Idaho sedge
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *C. idaho* Bailey
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S1
 USFWS STATUS: 3C
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Review list in ID
 GLOBAL DISTRIBUTION: Southwest MT and adjacent ID. The Range of the species is B.C. to Man., south to CO and VT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Madison, Powell, Silver Bow
 LAND OWNERSHIP: Beaverhead N.F.; Deerlodge N.F.; BLM, Butte District; private
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Range, Centennial Mtns., Highland Mtns.
 HABITAT: Wet meadows in regions of calcareous parent material in the montane zone, 1980-2600 m (6,500-8,500 ft.)
 PHENOLOGY: Mature fruit in July and August
 COMMENTS: Most known populations in Montana are small. Subspecies *idaho* is very similar to ssp. *hallii*. Consult Murray (1969) for a key and a discussion of this complex.

SCIENTIFIC NAME: *CAREX LENTICULARIS* Michx. var. *DOLIA* (Jones) Standley
 COMMON NAME: Northern lens-fruited sedge
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *C. plectocarpa* Hermann, *C. emanderi* Hulten, *C. eurytachya* Hermann
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5T2/S1
 USFWS STATUS: C2
 USFS STATUS: Watch List
 STATUS IN OTHER STATES: Rare in B.C., rare in Alta.
 GLOBAL DISTRIBUTION: AK south to B.C., Alta., and w. MT. The species as a whole occurs in boreal N. America south to NY, MI, and CA. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Shallow, wet, stony soil around streams in the alpine zone, 2040-2440 m (6,700-8,000 ft.)
 PHENOLOGY: Mature fruit in late July and August
 COMMENTS: In Montana, this plant is locally abundant at the only two known sites. Cronquist (Hitchcock and Cronquist 1973) mistakenly refers this plant to *C. eleusinoides* (Standley 1985).

SCIENTIFIC NAME: *CAREX LIVIDA* (Wahl.) Willd.
 COMMON NAME: Pale sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Category 1 (endangered) in ID, review list in OR
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to WA, MT, MI, and NY, disjunct in CA. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier, Lake, Lewis & Clark, Missoula, Teton
 LAND OWNERSHIP: Flathead N.F., Helena N.F., Lolo N.F., Glacier National Park, private, state
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River, Blackfoot River drainages, Front Range
 HABITAT: Bogs and fens in the foothill and montane zones, 1200-1850 m (4,000-6,000 ft.)
 PHENOLOGY: Mature fruit in late June to early August
 COMMENTS: In Montana, this species is confined to undisturbed bogs and fens, often in areas of calcareous parent material.

SCIENTIFIC NAME: *CAREX MARITIMA* Gunn.
 COMMON NAME: Maritime sedge
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *C. incurviformis* Mack., *C. i.* var. *danensis* (Stacey) Hermann
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY, rare in Alta., rare in Sask.
 GLOBAL DISTRIBUTION: Circumpolar south in N. America to Que., Man., CO, and CA. Sparse.
 MONTANA COUNTIES: Deer Lodge, Teton
 LAND OWNERSHIP: Deerlodge N.F., Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Range, Front Range
 HABITAT: Wet rock ledges and moist tundra in the alpine zone, 2290-2710 m (7,500-8,900 ft.)
 PHENOLOGY: Mature fruit in July
 COMMENTS: Known populations in Teton Co. are small. Our plants are var. *incurviformis* (Mack.) Boivin.

SENSITIVE

SCIENTIFIC NAME: *CAREX MULTICOSTATA* Mack.
 COMMON NAME: Many-ribbed sedge
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *C. pachycarpa* Mack.
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: Central WA to s. CA, and e. OR, ID, and MT. Peripheral.
 MONTANA COUNTIES: Beaverhead, Gallatin
 LAND OWNERSHIP: BLM, Butte District; private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Mtns., Shields River drainage
 HABITAT: Meadows and open, moist to dry slopes and woods, at moderate elevations, occasionally ascending to near timberline, 1830-3350 m (6,000-11,000 ft.)
 PHENOLOGY: Flowering and fruiting in July
 COMMENTS: Hermann (1970) indicates that this species is plentiful in the mountains of Oregon and California and is often found in overgrazed meadows.

SCIENTIFIC NAME: *CAREX OCCIDENTALIS* Bailey
 COMMON NAME: Western sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: MT, WY, CO, and UT southward to NM, AZ, and CA. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: Beaverhead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Southwestern MT
 HABITAT: Dry habitats, generally at mid-elevations but extending to the spruce-fir zone, sometimes to subalpine or even alpine habitats, 1520-3350 m (5,000-11,000 ft.)
 PHENOLOGY: Flowering and fruiting in June and July.
 COMMENTS: This species was last collected in Montana in 1930.

SCIENTIFIC NAME: *CAREX PAUPERCOLA* Michx.
 COMMON NAME: Poor sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Category 2 (threatened) in ID, sensitive in WA, rare in WY
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to WA, ID, UT, and CO. Sparse.
 MONTANA COUNTIES: Flathead, Lake, Missoula
 LAND OWNERSHIP: Lolo N.F., Flathead N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Clark Fork River and Flathead River drainages
 HABITAT: Bogs and fens in the montane zone, 900-2150 m (3,000-7,000 ft.)
 PHENOLOGY: Mature fruit from July through September
 COMMENTS: One of four known Montana populations of this species is threatened by peat mining.

SCIENTIFIC NAME: *CAREX PETRICOSA* Dewey
 COMMON NAME: Rock sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: AK and Canada, s. to nw. MT. Peripheral.
 MONTANA COUNTIES: Glacier
 LAND OWNERSHIP: Glacier National Park, Blackfeet Indian Res.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Dry calcareous barrens, cliffs, and talus slopes, alpine or subalpine areas, 2180 m (7,150 ft.)
 PHENOLOGY: Mature fruit in August.
 COMMENTS: In Montana and the western continental U.S., this species is currently known from only one site on the east border of Glacier N.P.

SCIENTIFIC NAME: *CAREX SCOPARIA* Schk. ex Willd.
 COMMON NAME: Pointed broom sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta.
 GLOBAL DISTRIBUTION: Newfoundland to s. B.C., s. to FL, AR, NM, and OR; in the Pacific Northwest, w. OR and w. WA, n. ID, and w. MT. Sparse.
 MONTANA COUNTIES: Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Valley
 HABITAT: Moist or wet low ground, at lower elevations, chiefly in humid regions, 935-1310 m (3,070-4,300 ft.)
 PHENOLOGY: Fruiting in July-August
 COMMENTS: The report for this species from above timberline in Glacier N.P. (Bamberg and Major 1968) is undoubtedly erroneous.

SCIENTIFIC NAME: *CAREX STENOPTILA* Hermann
 COMMON NAME: Small-winged sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3?/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: None
 GLOBAL DISTRIBUTION: CO, WY, and MT. Sparse.
 MONTANA COUNTIES: Flathead, Gallatin, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., Yellowstone N.P., private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range, Yellowstone region, Flathead Valley
 HABITAT: Rocky openings and dry, coniferous woods in the mountains and on high plateaus, 2120-2560 m (6,960-8,400 ft.) Marshy meadows at 960 m (3,160 ft.)
 PHENOLOGY: Flowering and fruiting July-September.
 COMMENTS: According to Hermann (1970) the species is local throughout its range.

SCIENTIFIC NAME: **CAREX TENUIFLORA** Wahl.
 COMMON NAME: Slender-flowered sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to NY, MN, and MT. Peripheral.
 MONTANA COUNTIES: Flathead
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Livingston Range
 HABITAT: Sphagnum bogs in the montane zone, 1520 m (5,000 ft.)
 PHENOLOGY: Mature fruit in July and August
 COMMENTS: There is only one known location for this species in Montana and the western continental U.S.

SCIENTIFIC NAME: **CAREX TORREYI** Tuckerm.
 COMMON NAME: Torrey's sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Alta. to Man., south to MN, SD, and MT. Peripheral.
 MONTANA COUNTIES: Carter, Chouteau
 LAND OWNERSHIP: Custer N.F., private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Moist meadows and woodlands on the plains
 PHENOLOGY: Mature fruit in June and July
 COMMENTS: The Chouteau Co. collection is 100 years old.

SCIENTIFIC NAME: **CAREX VALLICOLA** Dewey
 COMMON NAME: Valley sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/SU
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern OR to c. ID and sw. MT, thence to WY and w. SD, and s. to CA, s. NV, and s. UT; also in Mexico. Peripheral.
 MONTANA COUNTIES: Beaverhead, Gallatin, Lewis & Clark, Madison, Park (?)
 LAND OWNERSHIP: Beaverhead N.F., Gallatin N.F., Helena N.F. private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley, Madison River drainage, Shields River drainage, Yellowstone region, Big Belt Mtns.
 HABITAT: Moist or moderately dry slopes from the foothills to moderate elevations in the mountains, often with sagebrush or aspen, 1755-2160 m (5,760-7,080 ft.)
 PHENOLOGY: Flowering June, fruiting late June-August.

SCIENTIFIC NAME: **CASTILLEJA CERVINA** Greenm.
 COMMON NAME: Deer paintbrush
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern B.C., adjacent n. ID, n. WA, and nw. MT. Regional endemic.
 MONTANA COUNTIES: Flathead, Missoula, Powell
 LAND OWNERSHIP: Private?
 PHYSIOGRAPHIC DISTRIBUTION: Blackfoot River, Clark Fork River, Flathead River drainages
 HABITAT: Grasslands and open coniferous woods, 915-1520 m (3,000-5,000 ft.)
 PHENOLOGY: Flowering and fruiting July
 COMMENTS: The most recent collection from Montana was made in 1960.

SCIENTIFIC NAME: **CASTILLEJA COVILLEANA** Henderson
 COMMON NAME: Rocky Mountain paintbrush
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive List
 GLOBAL DISTRIBUTION: Central ID and adjacent MT. Regional endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range
 HABITAT: Rocky mountain slopes, terraces, and summits, 2070-2650 m (6,000-8,700 ft.)
 PHENOLOGY: Flowering late June to early August
 COMMENTS: A well-defined species known in Montana from three collections southwest of Darby.

SCIENTIFIC NAME: **CASTILLEJA EXILIS** A. Nels.
 COMMON NAME: Annual paintbrush
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Central WA and e. OR to sw. MT and w. WY, s. to nw. NM, n. AZ, NV, and adjacent CA. Peripheral.
 MONTANA COUNTIES: Deer Lodge, Gallatin, Jefferson, Park; reported for Silver Bow
 LAND OWNERSHIP: Private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Yellowstone region, southwestern valleys
 HABITAT: Alkaline marshes and meadows, mostly at lower elevations, 1280-1680 m (4,200-5,520 ft.)
 PHENOLOGY: Flowering in July-August
 COMMENTS: This is the only annual member of the genus that occurs in Montana. All of the Montana records for this species were collected before 1922.

SCIENTIFIC NAME: *CASTILLEJA GRACILLIMA* Rydb.
 COMMON NAME: Slender paintbrush
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Nw. WY and adjacent MT to c. ID,
 and possibly e. B.C. Regional endemic.
 MONTANA COUNTIES: Gallatin, Madison; questionable
 record in Beaverhead.
 LAND OWNERSHIP: Gallatin N.F.(?)
 PHYSIOGRAPHIC DISTRIBUTION: Yellowstone area, and
 Jefferson and Madison river drainages.
 HABITAT: Wet meadows and stream banks, 2040-2135 m
 (6,700-7,000 ft.)
 PHENOLOGY: Flowering June to August
 COMMENTS: This species is currently known from only
 two locations in Montana.

SCIENTIFIC NAME: *CASTILLEJA LONGISPICA* A. Nels.
 COMMON NAME: White paintbrush
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: Ne. CA, across e. OR and c. ID,
 to w. WY and MT; Clearwater River drainage in n. ID.
 Peripheral.
 MONTANA COUNTIES: Beaverhead, Carbon, Madison,
 Ravalli
 LAND OWNERSHIP: Bitterroot N.F.; BLM, Miles City
 District; private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn
 Canyon area, Sapphire Mtns.
 HABITAT: Plains, hills, and slopes, generally
 associated with sagebrush, often in meadowy areas,
 ca. 1220-2440 m (4,000-8,000 ft.)
 PHENOLOGY: Flowering in June and July
 COMMENTS: Some of the Montana collections of this
 species are old (1899), and the sites have not been
 verified in recent years.

SCIENTIFIC NAME: *CELASTRUS SCANDENS* L.
 COMMON NAME: American bittersweet
 FAMILY: Celastraceae (Staff Tree Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Sask.
 GLOBAL DISTRIBUTION: Quebec to Manitoba, and MT, s.
 to NC, TN, and TX. Peripheral.
 MONTANA COUNTIES: Carter, Dawson
 LAND OWNERSHIP: Private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Woodlands, rocky hillsides, and thickets,
 610-760 m (2,000-2,500 ft.)
 PHENOLOGY: Flowering and fruiting May-July

SCIENTIFIC NAME: *CENTAURIUM EXALTATUM* (Griseb.) Wight
 COMMON NAME: Western centaury
 FAMILY: Gentianaceae (Gentian Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. and e. WA to MT, south to
 CA, CO, and NE. Sparse.
 MONTANA COUNTIES: Big Horn
 LAND OWNERSHIP: private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Moist, open, alkaline soil, often around
 ponds on the plains, ca. 915 m (3,000 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This species has been collected in Montana
 only once, 100 years ago. This site has not been
 relocated. Western centaury may be adventive in the
 Great Plains (Great Plains Flora Association 1986).

SCIENTIFIC NAME: *CENTUNCULUS MINIMUS* L.
 COMMON NAME: Chaffweed
 FAMILY: Primulaceae (Primrose Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.,
 rare in Sask.
 GLOBAL DISTRIBUTION: Irregularly cosmopolitan, Nova
 Scotia to OH, MN, MT, ND, s. to OK. Sparse.
 MONTANA COUNTIES: Cascade
 LAND OWNERSHIP: Private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Shores, seepage areas, and other moist
 areas, 1020 m (3,340 ft.)
 PHENOLOGY: Flowering and fruiting June-September
 COMMENTS: This species has not been collected in
 Montana since 1891.

SCIENTIFIC NAME: *CERCOCARPUS MONTANUS* Raf.
 COMMON NAME: Birchleaf mountain-mahogany
 FAMILY: Rosaceae (Rose Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest OR to Baja Cal., east
 to MT, WY, CO, NM, and Mex. Peripheral.
 MONTANA COUNTIES: Treasure
 LAND OWNERSHIP: private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Open slopes and breaks on the plains, ca.
 915 m (3,000 ft.)
 PHENOLOGY: Unknown
 COMMENTS: This species is known from only one
 location in Montana.

SENSITIVE

SCIENTIFIC NAME: *CHRYSOSPLENIUM TETRANDRUM* (Lund)
Fries
COMMON NAME: Northern golden-carpet
FAMILY: Saxifragaceae (Saxifrage Family)
MONTANA STATUS: Sensitive
GLOBAL and STATE RANKS (TNC): G4G5/S2
USFWS STATUS: None
USFS STATUS: Sensitive
STATUS IN OTHER STATES: Sensitive in WA
GLOBAL DISTRIBUTION: Circumpolar, south in N. America
to B.C., WA, and CO. Peripheral.
MONTANA COUNTIES: Ravalli
LAND OWNERSHIP: Bitterroot N.F.
PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.,
Sapphire Mtns.
HABITAT: Seeps, wet rock ledges, and banks in the
montane zone, 1220-1525 m (4,000-5,000 ft.)
PHENOLOGY: Flowering in June and July
COMMENTS: This small plant may be easily overlooked.

SCIENTIFIC NAME: *CIRSIMUM BREVISTYLUM* Cronq.
COMMON NAME: Short-styled thistle
FAMILY: Asteraceae (Sunflower Family)
MONTANA STATUS: Sensitive
GLOBAL and STATE RANKS (TNC): G4/S1
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: B.C. to CA, east to n. ID and W.
MT. Peripheral.
MONTANA COUNTIES: Flathead, Mineral, Sanders
LAND OWNERSHIP: Kootenai N.F., Lolo N.F.
PHYSIOGRAPHIC DISTRIBUTION: Northern Bitterroot
Range, Flathead River drainage
HABITAT: Open, often disturbed habitats in the
montane zone, 910-1280 m (3,000-4,200 ft.)
PHENOLOGY: Flowering in June and July
COMMENTS: The collection from Flathead Co. is nearly
100 years old.

SCIENTIFIC NAME: *CHRYSOTHAMNUS LINIFOLIUS* Greene
COMMON NAME: Lineleaf rabbitbrush
FAMILY: Asteraceae (Sunflower Family)
MONTANA STATUS: Sensitive
GLOBAL and STATE RANKS (TNC): G5/SH
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: Southwest MT to AZ and NM.
Peripheral.
MONTANA COUNTIES: Yellowstone
LAND OWNERSHIP: Private(?)
PHYSIOGRAPHIC DISTRIBUTION: Yellowstone River
drainage
HABITAT: Mostly alkaline areas, 1010 m (3,310 ft.)
PHENOLOGY: Flowering in September
COMMENTS: This species has only been collected once
in Montana, in 1932.

SCIENTIFIC NAME: *CHRYSOTHAMNUS PARRYI* (Gray) Greene
ssp. *MONTANUS* Anders.
COMMON NAME: Alpine rabbitbrush
FAMILY: Asteraceae (Sunflower Family)
MONTANA STATUS: Sensitive
GLOBAL and STATE RANKS (TNC): G5T1/S1
USFWS STATUS: C2
USFS STATUS: None
STATUS IN OTHER STATES: Sensitive in ID
GLOBAL DISTRIBUTION: Clark Co., ID and adjacent MT.
The range of the species as a whole is WY and NE
south to CA and CO. Regional endemic.
MONTANA COUNTIES: Beaverhead
LAND OWNERSHIP: Beaverhead N.F.
PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Mtns.
HABITAT: Rocky, open slopes near timberline
PHENOLOGY: Flowering August and September
COMMENTS: This rare plant was recently described by
Anderson (1978).

SCIENTIFIC NAME: *CIRSIMUM LONGISTYLUM* Moore & Frankton
COMMON NAME: Long-styled thistle
FAMILY: Asteraceae (Sunflower Family)
MONTANA STATUS: Sensitive
GLOBAL and STATE RANKS (TNC): G2Q/S2
USFWS STATUS: C2
USFS STATUS: Watch list
GLOBAL DISTRIBUTION: Central MT. Regional endemic.
MONTANA COUNTIES: Broadwater, Cascade, Judith Basin,
Meagher
LAND OWNERSHIP: Helena N.F., Lewis & Clark N.F.,
private
PHYSIOGRAPHIC DISTRIBUTION: Little Belt Mtns., one
station in Big Belt Mtns.
HABITAT: Meadows, slopes and roadsides, at moderate
elevations in the mountains, 1425-2450 m
(4,680-8,040 ft.)
PHENOLOGY: Flowering in late June and July
COMMENTS: This Montana endemic is generally
well-marked, although there is morphological
evidence of hybridization in several populations,
especially in disturbed areas. It is thought to be
hybridizing with either *C. hookerianum* or *C. tweedyi*
(G. Ownbey, pers. comm.).

SCIENTIFIC NAME: *CIRSILIUM SUBMIVEUM* Rydb.
 COMMON NAME: Jackson's Hole thistle
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Northeast OR to e. NV, east to WY and sw. MT. Peripheral.
 MONTANA COUNTIES: Beaverhead, Madison
 LAND OWNERSHIP: Beaverhead N.F.; BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: Gravelly Range, Ruby Range, Tendency Mtns.
 HABITAT: Sagebrush grassland, meadows, and other open habitats in the foothill and montane zones, 1825-2425 m (6,000-8,000 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: Thistles are collected less commonly than other plants. This species may be more common than records indicate.

SCIENTIFIC NAME: *CLARKIA RHOMBOIDEA* Dougl.
 COMMON NAME: Common Clarkia
 FAMILY: Onagraceae (Evening Primrose Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern B.C. southward to s. CA, e. to ID, w. MT, UT, and AZ. Peripheral.
 MONTANA COUNTIES: Sanders
 LAND OWNERSHIP: Lolo N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Dry, open forests, to woods and slopes in the mountains, 915-2070 m (3,000-6,800 ft.) in MT
 PHENOLOGY: Flowering in late May and June
 COMMENTS: This species has been recently collected near Thompson Falls. It is more common to the west and south of Montana.

SCIENTIFIC NAME: *CLEOME LUTEA* Hook.
 COMMON NAME: Yellow bee plant
 FAMILY: Capparidaceae (Caper Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA to CA, east to MT, NE and TX. Peripheral.
 MONTANA COUNTIES: Big Horn, Carbon
 LAND OWNERSHIP: BLM, Miles City District(?); Big Horn Canyon N.R.A.(?) Crow Indian Res.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtn.-Big Horn Canyon area
 HABITAT: Sandy, often disturbed soil in the valleys ca. 1220 m (4,000 ft.)
 PHENOLOGY: Flowering June-July

SCIENTIFIC NAME: *COLLOMIA TINCTORIA* Kell.
 COMMON NAME: Yellow-staining collomia
 FAMILY: Polemoniaceae (Phlox Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central WA to CA, eastward to MT, southeast OR, and w. NV. Peripheral.
 MONTANA COUNTIES: Cascade, Flathead
 LAND OWNERSHIP: Unknown
 PHYSIOGRAPHIC DISTRIBUTION: Big Belt Mtns., Flathead Valley
 HABITAT: Dry, open places from the foothills to moderate or rather high elevations the mountains, often on talus or on gravelly, unstable slopes; 915-1220 m (3,000-4,000 ft.)
 PHENOLOGY: Flowering June-August
 COMMENTS: This species was collected in Montana in 1887 and 1894.

SCIENTIFIC NAME: *CONIOSELINUM SCOPULORUM* (Gray) Coult. & Rose
 COMMON NAME: Hemlock parsley
 FAMILY: Apiaceae (Carrot Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT to AZ and NM. Peripheral.
 MONTANA COUNTIES: Big Horn, Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area
 HABITAT: Moist woods, streambanks, and meadows, 1115 m (3,660 ft.)
 PHENOLOGY: Fruiting in July

SCIENTIFIC NAME: *CORYDALIS SEMPERVIRENS* (L.) Pers.
 COMMON NAME: Pink corydalis, pale corydalis
 FAMILY: Fumariaceae (Fumatory Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: AK, B.C., and nw. MT, east to Newf. and GA. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park, Flathead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Livingston Range
 HABITAT: Open, sometimes disturbed soil of meadows and woodlands in the montane zone, 980-1520 m (3,200-5,000 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: Glacier National Park has the only known populations of this species in the western continental U.S.

SENSITIVE

SCIENTIFIC NAME: *CRYPTANTHA FENDLERI* (Gray) Greene
 COMMON NAME: Fendler's cryptantha, Fendler's cat's-eye
 FAMILY: Boraginaceae (Borage Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to Sask., south to OR, AZ, NM, and NE. Sparse.
 MONTANA COUNTIES: Beaverhead, Sheridan
 LAND OWNERSHIP: State; BLM, Butte District; Medicine Lake N.W.R.; private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains, Centennial Valley
 HABITAT: Open, often disturbed soil of sandhills and dunes in the valley and foothill zones and on the plains, 610-2010 m (2,000-6,600 ft.)
 PHENOLOGY: Flowering in May through early July depending on elevation
 COMMENTS: This species is locally common in the two largest sandhill areas in Montana.

SCIENTIFIC NAME: *CRYPTANTHA FLAVOCULATA* (A. Nels.) Payson
 COMMON NAME: Pale yellow cryptantha
 FAMILY: Boraginaceae (Borage Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT south to CA, AZ and NM. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area
 HABITAT: Dry, gravelly slopes and hills, 1340-1645 m (4,400-5,400 ft.)
 PHENOLOGY: Flowering and fruiting May-June

SCIENTIFIC NAME: *CYPERUS ACUMINATUS* Torr. & Hook.
 COMMON NAME: Short-pointed flatsedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: WA to VA, south to CA, TX, and FL. Sparse.
 MONTANA COUNTIES: Cascade, Sanders
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River, Missouri River drainages
 HABITAT: Wet ground on the margins of rivers, lakes and ponds in the valley zone and on the plains, 820-1040 m (2,700-3,400 ft.)
 PHENOLOGY: Mature fruit in August and September
 COMMENTS: There have been only two collections of this plant in Montana. The Cascade Co. collection is almost 100 years old.

SCIENTIFIC NAME: *CYPERUS RIVULARIS* Kunth
 COMMON NAME: Shining flatsedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in WA, review list in OR. threatened in ND
 GLOBAL DISTRIBUTION: ME, Que., Ont., and WA, south to CA, TX, Mex., and NV. Sparse.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River drainage
 HABITAT: Wet, often gravelly shores of rivers, lakes and ponds in the valley zone, 1005 m (3,300 ft.)
 PHENOLOGY: Mature fruit in September
 COMMENTS: Some populations occur in ruderal habitats.

SCIENTIFIC NAME: *CYPERUS SCHWEINITZII* Torr.
 COMMON NAME: Schweinitz's flatsedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in Sask.
 GLOBAL DISTRIBUTION: Que. to B.C., south to NJ, TX, and MN. Peripheral.
 MONTANA COUNTIES: Sheridan
 LAND OWNERSHIP: State, Medicine Lake N.W.R., private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Sandy, open soil of sandhills and prairies on the plains, 670 m (2,200 ft.)
 PHENOLOGY: Mature fruit from late June through August
 COMMENTS: This species is known from only one location in Montana.

SCIENTIFIC NAME: *CYPRIPEDIUM CALCEOLUS* L.
 COMMON NAME: Small yellow lady's-slipper
 FAMILY: Orchidaceae (Orchid Family)
 PERTINENT SYNONYMS: *C. parviflorum* Salisb.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5T3/S2
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Category 1 (endangered) in ID, threatened in ND, extirpated from OR, endangered in WA, rare in B.C., rare in WY
 GLOBAL DISTRIBUTION: B.C. to WA and OR, e. of the Cascade crests, to ID, MT, WY, UT, and CO.; e. N. America, Europe. Sparse.
 MONTANA COUNTIES: Flathead, Gallatin, Granite, Judith Basin, Lake, Lewis & Clark, Lincoln, Missoula, Stillwater, Sweet Grass, Teton
 LAND OWNERSHIP: Flathead N.F., Kootenai N.F., Lewis & Clark N.F., Bitterroot N.F., state, private
 PHYSIOGRAPHIC DISTRIBUTION: Western and south-central mountains and valleys
 HABITAT: Bogs, damp mossy woods, seepage areas, and moist forest-meadow ecotones, at mid-elevations, 915-1890 m (3,000-6,200 ft.)
 PHENOLOGY: Flowering in May-June
 COMMENTS: A sparsely occurring species; it is often found in or near habitats that are susceptible to timber harvesting. Collections from Gallatin, Granite, Stillwater, and Sweet Grass counties are historical. Our plants are var. *parviflorum* Salisb.

SCIENTIFIC NAME: *CYPRIPEDIUM PASSERINUM* Richardson
 COMMON NAME: Sparrow's-egg lady's-slipper
 FAMILY: Orchidaceae (Orchid Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/S2
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: AK and Yukon to Hudson Bay and Quebec, s. to se. B.C., n. MT, and to the region of Lake Superior. Peripheral.
 MONTANA COUNTIES: Flathead, Lake, Lewis & Clark, Pondera, Powell, Teton
 LAND OWNERSHIP: Flathead N.F., Lewis & Clark N.F., Glacier N.P., state
 PHYSIOGRAPHIC DISTRIBUTION: Front Range Mtns., South Fork Flathead River and Swan River drainages
 HABITAT: Mossy, moist to springy places in coniferous forests and ecotones, often on calcareous substrates, 1280-1740 m (4,200-5,700 ft.)
 PHENOLOGY: Flowering late June-early July
 COMMENTS: The only known sites for this orchid in the lower 48 United States are in northwestern Montana.

SCIENTIFIC NAME: *CYSTOPTERIS MONTANA* (Lam.) Bernh.
 COMMON NAME: Mountain bladder-fern
 FAMILY: Polypodiaceae (Fern Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S3
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., rare in Alta., endangered in CO
 GLOBAL DISTRIBUTION: AK to Lab., south to Que., nw. MT, and B.C., disjunct in CO. Peripheral.
 MONTANA COUNTIES: Glacier
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Moist rock ledges in the alpine zone, 2100 m (6,900 ft.)
 PHENOLOGY: Mature fronds in August
 COMMENTS: The single Montana collection was made in 1932. Lellinger (1985) states that mountain bladder-fern is very rare throughout its range.

SCIENTIFIC NAME: *DALEA ENNEANDRA* Nutt.
 COMMON NAME: Nine-anther prairie clover
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY, threatened in ND
 GLOBAL DISTRIBUTION: Eastern MT to ND, south to NM, CO, TX, KS, and MO. Peripheral.
 MONTANA COUNTIES: Custer, Richland, reported for Yellowstone
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Gravelly, open soil of slopes in grasslands on the plains
 PHENOLOGY: Flowering July through September
 COMMENTS: This species may be more common in Montana than records indicate.

SCIENTIFIC NAME: *DALEA VILLOSA* (Nutt.) Spreng.
 COMMON NAME: Silky prairie clover
 FAMILY: Fabaceae (Pea Family)
 PERTINENT SYNONYMS: *Petalostemon villosus* Nutt.
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Sask. to Man. and WI, south to OK, KS, TX, and CO. Peripheral.
 MONTANA COUNTIES: Richland, reported for Carter
 LAND OWNERSHIP: Private, State(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Sandy or gravelly soil in grasslands on the plains
 PHENOLOGY: Flowering in late July and August
 COMMENTS: This species may be more common in Montana than records indicate.

SCIENTIFIC NAME: *DELPHINIUM ANDERSONII* Gray
 COMMON NAME: Anderson's larkspur
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: C. and se. OR, e. to sw. MT, s. to UT, NV, and CA, east of the Sierra Nevada. Peripheral.
 MONTANA COUNTIES: Jefferson
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Jefferson River drainage
 HABITAT: Sagebrush valleys and hills, into open forests, ca. 1256 m (4,120 ft.)
 PHENOLOGY: Flowering in May and June
 COMMENTS: The only record for this species in Montana is along the Jefferson River.

SCIENTIFIC NAME: *DELPHINIUM BURKEI* Greene
 COMMON NAME: Meadow larkspur
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to OR, east to nw. MT and n. WY. Peripheral.
 MONTANA COUNTIES: Flathead, Beaverhead(?)
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: North Fork Flathead River drainage
 HABITAT: Moist meadows in the valley and foothill zone, 1150 m (3,800 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: There is only one known location for this species in Montana.

SCIENTIFIC NAME: *DELPHINIUM GEYERI* Greene
 COMMON NAME: Geyer's larkspur
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/SU
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: MT south to NE, CO and UT.
 Peripheral.
 MONTANA COUNTIES: Beaverhead, Carbon
 LAND OWNERSHIP: BLM, Butte District, Miles City
 District
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River
 drainage, Pryor Mtns.-Big Horn Canyon area
 HABITAT: Open slopes and thickets at lower
 elevations, 1370-1980 m (4,500-6,500 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This species has been collected only twice
 in Montana, and both populations were small. It is
 more common to the south.

SCIENTIFIC NAME: *DICHANTHELIUM OLIGOSANTHES* (Schult.)
 Gould
 COMMON NAME: Few-flowered panic-grass
 FAMILY: Poaceae (Grass Family)
 PERTINENT SYNONYMS: *Panicum oligosanthos* Schult., *P.
 scribnerianum* Nash
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Ont. to B.C., south throughout
 most of the U.S. and N. Mexico. Sparse
 MONTANA COUNTIES: Powder River
 LAND OWNERSHIP: Custer N.F.(?), private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Sandy, open soil in pine woodland in upland
 regions on the plains
 PHENOLOGY: Mature fruit in June
 COMMENTS: Collected only once in Montana, 40 years
 ago. Represented by var. *scribnerianum* (Nash) Gould
 in Montana.

SCIENTIFIC NAME: *DRABA APICULATA* Hitchc.
 COMMON NAME: Pointed draba
 FAMILY: Brassicaceae (Mustard Family)
 PERTINENT SYNONYMS: *D. densifolia* Nutt. var.
apiculata (Hitchc.) Welsh
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest MT, nw. WY, and nw.
 UT. Regional endemic.
 MONTANA COUNTIES: Madison
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Madison Range
 HABITAT: Moist, open, gravelly, often
 limestone-derived soil in the alpine zone,
 3050-3260 m (10,000-10,700 ft.)
 PHENOLOGY: Mature fruit in August
 COMMENTS: Both known Montana populations are small.

SCIENTIFIC NAME: *DRABA FLADWIZENSIS* Wulfen
 COMMON NAME: Austrian whitlow-wort, white arctic
 whitlow-grass
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in ID
 GLOBAL DISTRIBUTION: Circumpolar, south in N. America
 to B.C., UT, and CO. Sparse.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Rocky, open soil at high elevations in the
 alpine zone, 3350 m (11,000 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: There has been only one collection of this
 species in Montana.

SCIENTIFIC NAME: *DRABA MACOUNII* Schulz
 COMMON NAME: Macoun's whitlow-wort, Macoun's draba
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: AK south to nw. MT. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Wet rock ledges and moist tundra in the
 alpine zone, 2070-2440 m (6,800-8,000 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: The only known populations of this plant in
 the continental U.S. are confined to a small area in
 the center of Glacier Park.

SCIENTIFIC NAME: *DRABA PORSILDII* Mulligan
 COMMON NAME: Porsild's whitlow-wort, Porsild's draba
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: AK south to B.C. and MT.
 Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Gravelly, open soil in the alpine zone,
 2740-4000 m (9,000-11,800 ft.)
 PHENOLOGY: Flowering in July, Mature fruit in July
 and August
 COMMENTS: Montana populations of this species are
 small.

SCIENTIFIC NAME: *DRABA VENTOSA* Gray
 COMMON NAME: Wind River draba
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: B.C. and Alta., south to UT and CO. Sparse.
 MONTANA COUNTIES: Madison
 LAND OWNERSHIP: Beaverhead N.F., Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Madison Range, Tobacco Root Range
 HABITAT: Limestone talus and scree in the subalpine and alpine zones, ca. 2650-3050 m (8,700-10,000 ft.)
 PHENOLOGY: Flowering in late June and July, mature fruit in August
 COMMENTS: This species is known from only two sites in Montana.

SCIENTIFIC NAME: *DROSER A LINEARIS* Goldie
 COMMON NAME: Linear-leaved sundew
 FAMILY: Droseraceae (Sundew Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in Alta., rare in Sask.
 GLOBAL DISTRIBUTION: Boreal Canada, s. to ME, WI, MT. Peripheral.
 MONTANA COUNTIES: Flathead, Lewis & Clark, Powell
 LAND OWNERSHIP: Helena N.F., Flathead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Blackfoot River, South Fork Flathead River drainages
 HABITAT: Sphagnum bogs, at mid-elevations in the mountains, 1325-1840 m (4,350-6,030 ft.)
 PHENOLOGY: Flowering in late June-August
 COMMENTS: The only known populations of this species in the western United States are in northwestern Montana. It may be hybridizing with a closely related species, *D. anglica*, at one location.

SCIENTIFIC NAME: *DRYAS INTEGRIFOLIA* Vahl
 COMMON NAME: Entire-leaved dryad, white mountain-avens
 FAMILY: Rosaceae (Rose Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Arctic N. America and Greenland, south to NH, B.C., Alta., and n. MT. Peripheral.
 MONTANA COUNTIES: fergus
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Big Snowy Mtns.
 HABITAT: Open, gravelly, limestone-derived soil of windswept ridgetops and plateaus in the alpine zone, ca. 2620 m (8,600 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: The Big Snowy Mtns. have the only populations of this species in the western continental U.S. *D. integrifolia* occurs with *D. octopetala*, and the two may be hybridizing. Other records of this species for Montana (Bamberg and Pemble 1968) cannot be verified.

SCIENTIFIC NAME: *DRYOPTERIS CRISTATA* (L.) Gray
 COMMON NAME: Buckler fern, crested shield-fern
 FAMILY: Polypodiaceae (Fern Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in WA, sensitive in ID, threatened in ND; rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: Newf. to B.C., south to NC, TN, KN, ND, nw. MT, n. ID, and WA. Peripheral.
 MONTANA COUNTIES: Flathead, Lake, Missoula
 LAND OWNERSHIP: Flathead N.F., Lolo N.F., Flathead Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River and Clark Fork River drainages
 HABITAT: Wet soil, usually at the margins of bogs or fens in the montane zone, 910-1370 m (3,000-4,500 ft.)
 PHENOLOGY: Mature fronds in July and August
 COMMENTS: Most known Montana populations are small, consisting of fewer than 50 plants.

SCIENTIFIC NAME: *ELEOCHARIS XYRIDIFORMIS* Fern. & Brackett
 COMMON NAME: Creeping spike-rush
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: ND, MT, and WY, s. to TX; Mexico. Peripheral.
 MONTANA COUNTIES: Carter, Petroleum
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Shorelines of lakes, ponds, marshes, low swamps, and wet ditches, 915-1035 m (3,000-3,400 ft.)
 PHENOLOGY: Flowering June, fruiting July
 COMMENTS: This species has been collected only twice in Montana, both times in 1973.

SCIENTIFIC NAME: *ELODEA LONGIVAGINATA* St. John
 COMMON NAME: Long-sheath waterweed
 FAMILY: Hydrocharitaceae (Frog's-bit Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Sask.
 GLOBAL DISTRIBUTION: Alta. and Sask., south to NC, CO, UT, and NM. Sparse.
 MONTANA COUNTIES: Glacier, Phillips, Toole
 LAND OWNERSHIP: Blackfeet Indian Res.; BLM, Lewistown District; private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Shallow margins of ponds on the plains, 850-1200 m (2,800-3,900 ft.)
 PHENOLOGY: Flowering in late June and July
 COMMENTS: This species may be more common in north-central Montana than current records indicate.

SENSITIVE

SCIENTIFIC NAME: *ELYMUS FLAVESCENS* Scribn. & Smith
 COMMON NAME: Yellow wildrye, sand wildrye
 FAMILY: Poaceae (Grass Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA and OR, east to s. ID and sw. MT. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District; private
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley
 HABITAT: Open soil of sandhills and dunes in the valley and foothill zones, ca. 2010 m (6,600 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: There is only one small population of this species known in Montana.

SCIENTIFIC NAME: *ELYMUS INNOVATUS* Beal
 COMMON NAME: Northern wild-rye, fuzzyspike wildrye
 FAMILY: Poaceae (Grass Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: AK to B.C., e. to Alberta and s. to MT, WY, and SD. Peripheral.
 MONTANA COUNTIES: Cascade, Glacier
 LAND OWNERSHIP: Glacier National Park, Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Little Belt Mtns.
 HABITAT: Sandy meadows, riparian areas, and rocky hillsides, to open lodgepole or spruce forest, ca. 1400 m (4,600 ft.)
 PHENOLOGY: Flowering in June-July
 COMMENTS: This species was also collected on the N. Fork Sims River by R.S. Williams in 1887 (Hitchcock et al., 1969).

SCIENTIFIC NAME: *ERIGERON ASPERUGINEUS* (Eat.) Gray
 COMMON NAME: Rough fleabane
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Central ID, ne. NV, and sw. MT. Regional endemic.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: Beaverhead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lime Peaks in the Beaverhead Mtns.
 HABITAT: Open soil or scree in the alpine zone, 2700-3050 m (8,800-10,000 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: This species can be similar in appearance to *E. caespitosus*.

SCIENTIFIC NAME: *ERIGERON EATONII* Gray
 COMMON NAME: Eaton's daisy
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: Sw. MT, WY, s. ID, and southward. Peripheral.
 MONTANA COUNTIES: Sweet Grass
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Absaroka Mtns.
 HABITAT: Open places in the mountains and foothills, up to ca. 2690 m (8,825 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: In Montana, this species has been collected only in Sweet Grass County (the label on the specimen gives Stillwater County in the locational information). Our plants are ssp. *eatonii*.

SCIENTIFIC NAME: *ERIGERON EVERMANNII* Rydb.
 COMMON NAME: Evermann's fleabane
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Central ID to sw. MT. Regional endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Shifting talus slopes and dry, rocky meadows in the high mountains, 2620-3050 m (8,600-10,000 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: A regional endemic species in a large, taxonomically complex genus. Currently known from two sites in Montana.

SCIENTIFIC NAME: *ERIGERON FLAGELLARIS* Gray
 COMMON NAME: Trailing fleabane, running fleabane
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: WY to NV, south to TX and AZ, also in nw. MT, s. B.C. and Alta. Disjunct.
 MONTANA COUNTIES: Lewis & Clark
 LAND OWNERSHIP: Lewis & Clark N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Front Range
 HABITAT: Open soil in meadows and open forest in the montane zone, ca. 1525 m (5,000 ft.)
 PHENOLOGY: Flowering in late June through August
 COMMENTS: This species tends to be weedy in the main part of its range, and it may be adventive in Montana. The only known Montana population may be threatened by oil and gas exploration and development.

SENSITIVE

SCIENTIFIC NAME: *ERIGERON FORMOSISSIMUS* Greene
 COMMON NAME: Beautiful daisy
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Undetermined in SD
 GLOBAL DISTRIBUTION: Chiefly in the s. Rocky Mtns. and Black Hills, from SD, WY, and UT to AZ and NM, extending into Mexico; also sw. MT and sw. Albta. Disjunct.
 MONTANA COUNTIES: Carbon, Madison
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Absaroka-Beartooth Mtns., Crazy Mtns., Gravelly Range
 HABITAT: Meadows and open ground in the mountains, often at high altitudes, 1450-2500 m (4,760-8,200 ft.)
 PHENOLOGY: Flowering July-September
 COMMENTS: The variety *viscidus* (Rydb.) Cronq. occurs in Montana.

SCIENTIFIC NAME: *ERIGERON LACKSCHEWITZII* Nesom & Weber
 COMMON NAME: Front Mountain fleabane
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: *E. ochroleucus* Nutt. in part
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G20/S2
 USFWS STATUS: C2
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Northwest MT. Regional endemic.
 MONTANA COUNTIES: Flathead, Lewis & Clark, Teton
 LAND OWNERSHIP: Flathead N.F., Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Range, Front Range
 HABITAT: Open, gravelly, calcareous soil and talus on ridge tops and in tundra in the alpine zone, 2290-2560 m (7,500-8,400 ft.)
 PHENOLOGY: Flowering in July and early August
 COMMENTS: Dorn (1984) considers *E. lackschewitzii* to be included in *E. ochroleucus*. This species is endemic to Montana.

SCIENTIFIC NAME: *ERIGERON LEIOMERUS* Gray
 COMMON NAME: Smooth daisy
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central ID and adjacent MT, south to UT, CO and NM. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: Beaverhead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Mtns.
 HABITAT: Rocky soil or talus in the alpine zone, 2925 m (9,600 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: There is only one location for this species in Montana.

SCIENTIFIC NAME: *ERIGERON LINEARIS* (Hook.) Piper
 COMMON NAME: Desert yellow daisy
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: S. B.C., s. through e. WA and OR to n. NV and Yosemite National Park, east through c. ID to Yellowstone National Park and adjacent MT. Peripheral.
 MONTANA COUNTIES: Beaverhead, Ravalli
 LAND OWNERSHIP: Bitterroot N.F.; BLM, Butte District; private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Valley, Beaverhead River drainage
 HABITAT: Dry, often rocky soil from the plains and foothills to moderate elevations in the mountains, often among sagebrush, 1190-1830 m (3,900-6,000 ft.)
 PHENOLOGY: Flowering in May and early June

SCIENTIFIC NAME: *ERIOPHORUM VIRIDICARINATUM* (Engelm.) Fern.
 COMMON NAME: Green-keeled cottongrass
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch List
 STATUS IN OTHER STATES: Review list in ID, sensitive in WA, threatened in ND
 GLOBAL DISTRIBUTION: Boreal N. America, south to NY, CO, n. ID, and WA. Sparse.
 MONTANA COUNTIES: Flathead, Glacier, Lake, Powell, Teton
 LAND OWNERSHIP: Glacier National Park, private, Flathead N.F., state
 PHYSIOGRAPHIC DISTRIBUTION: Front Range, Flathead River drainage
 HABITAT: Cold sphagnum bogs in the foothill and montane zones, 1160-1370 m (3,800-4,500 ft.)
 PHENOLOGY: Mature fruit in late June through August
 COMMENTS: This species is difficult to distinguish from the more common *E. polystachion*. All Montana populations are small.

SCIENTIFIC NAME: *EUPATORIUM MACULATUM* L.
 COMMON NAME: Joe-pye weed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern B.C. to Newf., s. to UT, NM, IL, and MI. Peripheral.
 MONTANA COUNTIES: Big Horn; reported for Rosebud
 LAND OWNERSHIP: Big Horn Canyon N.R.A.
 PHYSIOGRAPHIC DISTRIBUTION: Big Horn Canyon
 HABITAT: Swamps and other moist open places, 1130 m (3,700 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This species is represented by the var. *bruneri* (Gray) Breit. in Montana.

SCIENTIFIC NAME: *EUPATORIUM OCCIDENTALE* Hook.
 COMMON NAME: Western boneset
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive List
 GLOBAL DISTRIBUTION: Central WA, ID, and w. MT, s. to CA and UT. Peripheral.
 MONTANA COUNTIES: Mineral, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Sapphire Range
 HABITAT: Rocky places at a wide range of elevations, 1950-2135 m (6,400-7,000 ft.)
 PHENOLOGY: Flowering in August

SCIENTIFIC NAME: *EUPHRASIA ARCTICA* Lange
 COMMON NAME: Northern eyebright
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., rare in Sask.
 GLOBAL DISTRIBUTION: Scandinavia, Greenland, and n. N. America. Peripheral.
 MONTANA COUNTIES: Glacier
 LAND OWNERSHIP: Glacier National Park, Blackfeet Indian Res.(?) PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Open soil in grasslands, meadows, and tundra in the alpine zone, ca. 2190 m (7,200 ft.)
 PHENOLOGY: Flowering in late July and August
 COMMENTS: One of the two Montana collections is 90 years old and the site has not been relocated. Our plants are var. *disjuncta* (Fern. & Wieg.) Cronq.

SCIENTIFIC NAME: *FESTUCA VIVIPARA* (L.) Smith
 COMMON NAME: Viviparous fescue
 FAMILY: Poaceae (Grass Family)
 PERTINENT SYNONYMS: *F. ovina* L. var. *vivipara* L.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Boreal N. America, south to B.C., Alta., and nw. MT. Peripheral.
 MONTANA COUNTIES: Glacier
 LAND OWNERSHIP: Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Moist tundra in the alpine zone, 2130-2440 m (7,000-8,000 ft.)
 PHENOLOGY: Mature fruit in late July and August
 COMMENTS: The taxonomic status of viviparous species of *Festuca* is considered uncertain by some experts (Packer and Bradley 1984).

SCIENTIFIC NAME: *GENTIANA AQUATICA* L.
 COMMON NAME: Wet meadow gentian
 FAMILY: Gentianaceae (Gentian Family)
 PERTINENT SYNONYMS: *G. fremontii* Torr. (see Comments)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: 3C (*G. fremontii*)
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Sask.
 GLOBAL DISTRIBUTION: Southwest Alta. and s. Sask., south to CO; Asia. Sparse.
 MONTANA COUNTIES: Beaverhead, Madison
 LAND OWNERSHIP: State; BLM, Butte District; Beaverhead N.F.; private
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River and Ruby River drainages
 HABITAT: Moist alkaline meadows in the foothill and montane zones, 1920-2500 m (6,300-8,200 ft.)
 PHENOLOGY: Flowering in late June and July
 COMMENTS: A number of authors (Packer 1983, Hitchcock and Cronquist 1973) consider this species to be conspecific with *G. prostrata* Haenke.

SCIENTIFIC NAME: *GENTIANOPSIS MACCOUNII* (Holm) Iltis
 COMMON NAME: Macoun's gentian
 FAMILY: Gentianaceae (Gentian Family)
 PERTINENT SYNONYMS: *Gentianella crinita* (Froel.) Don ssp. *macounii* (Holm) Gillett, *Gentiana macounii* Holm
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND
 GLOBAL DISTRIBUTION: Yukon to Que., south to B.C., MT, and ND. Peripheral.
 MONTANA COUNTIES: Glacier, Teton
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Front Range Mtns.
 HABITAT: Boggy soil of wet meadows and fens in the foothill zone, ca. 1370 m (4,500 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This plant is presently known from only two locations in Montana.

SCIENTIFIC NAME: *GILIA INCONSPICUA* (Sm.) Sw.
 COMMON NAME: Shy gilia
 FAMILY: Polemoniaceae (Phlox Family)
 PERTINENT SYNONYMS: *Gilia tweedyi* Rydb., *Gilia sinuata* Dougl. var. *tweedyi* (Rydb.) Cronq.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA to s. MT, south to CA, AZ, and NM. Peripheral.
 MONTANA COUNTIES: Beaverhead, Carbon
 LAND OWNERSHIP: BLM, Butte District, Miles City District
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River drainage, Pryor Mtns.- Big Horn Canyon area
 HABITAT: Open, sandy soil in sagebrush grassland and desert shrubland in the valley and foothill zones, 1370-1740 m (4,500-5,700 ft.)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: This species may be more common than records indicate. Our plants are var. *tweedyi* (Rydb.) Cronq.

SCIENTIFIC NAME: *GILIA LEPTOMERIA* Gray
 COMMON NAME: Great Basin gilia
 FAMILY: Polemoniaceae (Phlox Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S2?
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to s. CA, eastward through Snake R. plains of ID to CO and s.-central MT. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District
 PHYSIOGRAPHIC DISTRIBUTION: Deserts of the Pryor-Big Horn Canyon area
 HABITAT: Open, sandy plains and hills at low elevations, 1280 m (4,200 ft.)
 PHENOLOGY: Flowering in May and June
 COMMENTS: Our plants are var. *leptomeria*.

SCIENTIFIC NAME: *GOODYERA REPENS* (L.) R. Br.
 COMMON NAME: Northern rattlesnake-plantain
 FAMILY: Orchidaceae (Orchid Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal south in N. America to NC, TN, SD, NM, AZ, and BC. Sparse.
 MONTANA COUNTIES: Fergus, Flathead, Judith Basin, Wheatland
 LAND OWNERSHIP: Glacier National Park, Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Livingston Range, Little Belt Mtns., Big Snowy Mtns.
 HABITAT: Open forests in the montane zone, 1735-1860 m (5,700-6,100 ft.)
 PHENOLOGY: Flowering in August

SCIENTIFIC NAME: *GRATIOLA EBRACTEATA* Benth.
 COMMON NAME: Bractless hedge-hyssop
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to CA, east to MT. Sparse.
 MONTANA COUNTIES: Cascade, Glacier, Teton, Yellowstone
 LAND OWNERSHIP: BLM, Butte District; private
 PHYSIOGRAPHIC DISTRIBUTION: Front Range Mtns., Northern Great Plains
 HABITAT: Drying mud around ponds in the foothills and on the plains, 975-1585 m (3,200-5,200 ft.)
 PHENOLOGY: Flowering in June through August
 COMMENTS: The Cascade Co. and Yellowstone Co. records are over 80 years old.

SCIENTIFIC NAME: *GRAYIA SPINOSA* (Hook.) Moq.
 COMMON NAME: Spiny hopsage
 FAMILY: Chenopodiaceae (Goosefoot Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA s., e. of the Cascades, to s. CA, and AZ, e. to sw. MT, w. WY, and CO. Peripheral.
 MONTANA COUNTIES: Beaverhead, Big Horn, Carbon, Park
 LAND OWNERSHIP: Yellowstone N.P.; BLM, Miles City District; private(?); state(?); Big Horn Canyon N.R.A.(?)
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn area, Yellowstone River and Beaverhead River drainages.
 HABITAT: Foothills and desert valleys, often in alkaline soil, 1280-1525 m (4,200-5,000 ft.)
 PHENOLOGY: Flowering in May and June
 COMMENTS: This is a common Great Basin shrub.

SCIENTIFIC NAME: *HALENIA DEFLEXA* (Sm.) Griseb.
 COMMON NAME: Spurred gentian
 FAMILY: Gentianaceae (Gentian Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND, rare in WY
 GLOBAL DISTRIBUTION: B.C. to Newf., south to NY, IL, MN, SD, and MT. Peripheral.
 MONTANA COUNTIES: Flathead, Lincoln
 LAND OWNERSHIP: State, private
 PHYSIOGRAPHIC DISTRIBUTION: Whitefish Range, Salish Mtns.
 HABITAT: Meadows and open forests in the foothill and montane zones, 950-1070 m (3,100-3,500 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: This species may be more common than records indicate.

SCIENTIFIC NAME: *HAPLOPAPPUS ABERRAWNS* (A. Nels.) Hall
 COMMON NAME: Idaho goldenweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: 3C
 USFS STATUS: None
 STATUS IN OTHER STATES: Monitor List in ID
 GLOBAL DISTRIBUTION: Central ID and sw. MT. Regional endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Crevices in granite cliffs and rock outcrops in the montane zone, 1370-1525 m (4,500-5,000 ft.)
 PHENOLOGY: Flowering late July-August
 COMMENTS: This species is known from only one location in Montana but is more common in Idaho.

SCIENTIFIC NAME: **HAPLOPAPPUS MACRONEMA** Gray ssp.
LINEARIS (Rydb.) Hall
 COMMON NAME: Discoid goldenweed
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: H. macronema var. canescens (A. Nels.) Cronq. H. m. var. linearis (Rydb.) Cronq.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4T7/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest MT and nw. WY. The range of the species as a whole is c. ID and sw. MT south to CA, UT and CO. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Madison, Meagher, Silver Bow
 LAND OWNERSHIP: Beaverhead N.F., private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River, Big Hole River, upper Missouri River drainages
 HABITAT: Openings in sagebrush-grasslands in the foothills and montane zones, 1790-2230 m (5,860-7,300 ft.)
 PHENOLOGY: Flowering July-August
 COMMENTS: Most populations are small, and plants are often heavily browsed (C. Wambolt, pers. comm.).

SCIENTIFIC NAME: **HAPLOPAPPUS MACRONEMA** Gray var.
MACRONEMA
 COMMON NAME: Discoid goldenweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4T4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: Southeast OR to sw. MT, south to CA and UT. The range of the species as a whole is c. ID, sw. MT, south to CA, UT and CO. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: Beaverhead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Pioneer Mtns.
 HABITAT: Rocky, open or sparsely wooded slopes, often in coarse talus, at high elevations in the mountains, often above timberline, 2330 m (7,640 ft.)
 PHENOLOGY: Flowering in late July and August
 COMMENTS: The single historical site for this plant was relocated in 1990.

SCIENTIFIC NAME: **HAPLOPAPPUS NANUS** (Nutt.) Eaton
 COMMON NAME: Dwarf goldenweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern OR to sw. MT, south to CA, NV and UT. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: Red Rock Lakes N.W.R.(?)
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley
 HABITAT: Dry, rocky slopes and rock slides, 2040 m (6,700 ft.)
 PHENOLOGY: Flowering in August.
 COMMENTS: The only collection of this species in MT was in 1952, near Red Rock Lakes.

SCIENTIFIC NAME: **HAPLOPAPPUS PYGMAEUS** (T. & G.) Gray
 COMMON NAME: Little goldenweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest MT to NM. Peripheral.
 MONTANA COUNTIES: Deer Lodge, Gallatin
 LAND OWNERSHIP: Gallatin N.F., private(?), state(?)
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Mtns., Bridger Range
 HABITAT: Alpine slopes and meadows, commonly above timberline
 PHENOLOGY: Flowering in August
 COMMENTS: This species has been collected only twice in Montana (1902, 1914); neither station has been verified recently.

SCIENTIFIC NAME: **HELENIUM HOOPSII** A. Gray
 COMMON NAME: Orange sneezeweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: OR to sw MT and WY, south to CA, AZ and NM. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District(?); private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River drainage
 HABITAT: Moist or wet meadows in the montane zone, 2040 m (6,700 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: There is only one known location for this species in Montana.

SCIENTIFIC NAME: **HETERANTHERA DUBIA** (Jacq.) MacMill.
 COMMON NAME: Water star-grass
 FAMILY: Pontederiaceae (Pickerel-weed Family)
 PERTINENT SYNONYMS: Zosterella dubia (Jacq.) Sm.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., review list in OR
 GLOBAL DISTRIBUTION: Que. to WA, south to NC, AK, NM, MT, ID, and OR. Sparse.
 MONTANA COUNTIES: Flathead, Sanders
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River drainage
 HABITAT: Shallow water of sloughs in the valley zone, 820-910 m (2,700-3,000 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This species is currently known from only two locations in Montana. It is more common in eastern N. America.

SCIENTIFIC NAME: *HETEROCODON RARIFLORUM* Nutt.
 COMMON NAME: Western pearl-flower
 FAMILY: Campanulaceae (Bellflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., rare in WY
 GLOBAL DISTRIBUTION: Southern B.C., ID, and nw. MT, to CA, NV, and WY. Sparse.
 MONTANA COUNTIES: Lake, Ravalli, Sanders
 LAND OWNERSHIP: Bitterroot N.F., Kootenai N.F.; private?
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Bull River drainage, Flathead Valley
 HABITAT: Moist, open places in the foothills and valleys, extending up to mid-elevations in the mountains; 840-2135 m (2,750-7,000 ft.)
 PHENOLOGY: Flowering June-July, fruiting June-August
 COMMENTS: The Lake County location (M.E. Jones, 1909) has not been verified. Two sites were found in the Bull River drainage in 1989.

SCIENTIFIC NAME: *HUTCHINSIA PROCUMBENS* (L.) Desv.
 COMMON NAME: Hutchinsia
 FAMILY: Brassicaceae (Mustard Family)
 PERTINENT SYNONYMS: *Hymenolobus procumbens* (L.) Nutt.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to CA, east to sw. MT, WY, and CO, disjunct in Lab. and Nwaf.; Eurasia. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District; private (?)
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River drainage
 HABITAT: Open soil beneath shrubs in sagebrush grassland in the valley and foothill zones, 1680-2090 m (5,500-6,800 ft.)
 PHENOLOGY: Flowering in June, mature fruit in July
 COMMENTS: There is only one recent Montana collection of this species.

SCIENTIFIC NAME: *IDAHOA SCAPIGERA* (Hook.) Nels. & Macbr.
 COMMON NAME: Scalegod
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to CA, east to ID and W. MT. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range
 HABITAT: Vernal moist, open soil on rock ledges in the foothill zone, 1400 m (4500 ft.)
 PHENOLOGY: Flowering in March and April
 COMMENTS: This inconspicuous plant can easily be overlooked and may be more common than records indicate.

SCIENTIFIC NAME: *IPOMOPSIS CONGESTA* (Hook.) Grant ssp. *CREBRIFOLIA* (Nutt.) Day
 COMMON NAME: Ballhead gilia
 FAMILY: Polemoniaceae (Phlox Family)
 PERTINENT SYNONYMS: *Gilia congesta* Hook. var. *crebrifolia* (Nutt.) Gray, *Ipomopsis crebrifolia* (Nutt.) Dorn,
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4T4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest MT and W. WY. The species as a whole occurs from OR to CA, east to MT and NE. Regional endemic.
 MONTANA COUNTIES: Beaverhead, reported for Madison
 LAND OWNERSHIP: BLM, Butte District; private
 PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River drainage
 HABITAT: Open, often eroding, sandy soil in the foothill zone, 2040-2100 m (6,700-6,900 ft.)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: This plant is locally common in a small area of southern Beaverhead Co.

SCIENTIFIC NAME: *IPOMOPSIS PUMILA* (Nutt.) Grant
 COMMON NAME: Dwarf ipomopsis
 FAMILY: Polemoniaceae (Phlox Family)
 PERTINENT SYNONYMS: *Gilia pumila* Nutt.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT and W. WY, south to AZ, NM, NE, CO, and TX. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.(?)
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area
 HABITAT: Open, sandy soil in sagebrush-grassland and desert shrubland in the valley and foothill zones, 1340-1490 m (4,400-4,900 ft.)
 PHENOLOGY: Flowering in June and early July

SCIENTIFIC NAME: *JUNCUS ACUMINATUS* Michx.
 COMMON NAME: Tapered rush
 FAMILY: Juncaceae (Rush Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: ME to B.C., south to GA, MO, AZ, and CA. Sparse.
 MONTANA COUNTIES: Teton
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Wet soil around ponds and marshes in the foothill and valley zones and on the plains, ca. 1370 m (4,500 ft.)
 PHENOLOGY: Mature fruit in late July
 COMMENTS: There is only one confirmed location for this species in Montana.

SCIENTIFIC NAME: *JUNCUS COVILLEI* Piper var. *COVILLEI*
 COMMON NAME: Coville's rush
 FAMILY: Juncaceae (Rush family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5T5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southern B.C. to CA, east to central ID and nw. MT. The species as a whole has the same range. Peripheral.
 MONTANA COUNTIES: Mineral, Ravalli, reported for Missoula
 LAND OWNERSHIP: Private, Bitterroot N.F.(?)
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River, Clark Fork River drainages
 HABITAT: Moist, gravelly or sandy soil along major water courses in the valley zone, 790-1220 m (2,600-4,000 ft.)
 PHENOLOGY: Mature fruit in August and September

SCIENTIFIC NAME: *JUNCUS COVILLEI* Piper var. *OBUSATUS* Hitchc.

COMMON NAME: Coville's rush
 FAMILY: Juncaceae (Rush Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5T4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to CA, east to central ID and nw. MT. The species as a whole occurs from B.C. to CA, east to ID and nw. MT. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range
 HABITAT: Moist soil of meadows in the subalpine zone, 2470 m (8,100 ft.)
 PHENOLOGY: Mature fruit in late July and August
 COMMENTS: This plant is known from only one location in Montana.

SCIENTIFIC NAME: *JUNCUS HALLII* Engelm.
 COMMON NAME: Hall's rush
 FAMILY: Juncaceae (Rush Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Sensitive in ID
 GLOBAL DISTRIBUTION: Rocky Mtns., from sw. MT to CO. Peripheral.
 MONTANA COUNTIES: Madison, Meagher, Powell, Silver Bow
 LAND OWNERSHIP: Beaverhead N.F., Gallatin N.F., Helena N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Big Belt Mtns., Gravelly Range, Madison Range, and Continental Divide in southwest Montana.
 HABITAT: Montane to subalpine, moist to dry meadows and slopes, 2100-2560 m (6,900-8,400 ft.)
 PHENOLOGY: Flowering from July to August
 COMMENTS: This species is sparsely distributed in southwestern Montana; it may be more common than current records indicate.

SCIENTIFIC NAME: *JUNCUS TRIGLUMIS* L. var. *ALBESCEMS* Lange
 COMMON NAME: Albino rush, northern white rush
 FAMILY: Juncaceae (Rush Family)
 PERTINENT SYNONYMS: *J. albescems* (Lange) Fern., *J. triglumis* L. ssp. *albescems* (Lange) Hulten
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5T5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., rare in Sask.
 GLOBAL DISTRIBUTION: Greenland to AK, south to Que., UT, and CO, and B.C. The species as a whole is circumpolar, south in N. America to Que., Ont., UT and CO. Sparse.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Wet, open, often gravelly soil around seeps in the alpine and subalpine zones, 1790-2320 m (5,900-7,600 ft.)
 PHENOLOGY: Mature fruit in July and August
 COMMENTS: Small colonies of this plant are locally common in the center of Glacier Park.

SCIENTIFIC NAME: *KELLOGGIA GALIODES* Torrey
 COMMON NAME: Kelloggia
 FAMILY: Rubiaceae (Madder Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central WA to n. Baja CA, e. to MT, w. WY, UT, and AZ. Peripheral.
 MONTANA COUNTIES: Mineral
 LAND OWNERSHIP: Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Clark Fork drainage
 HABITAT: Wooded or open slopes in the mountains, sometimes among rocks or along streams, 975 m (3,200 ft.)
 PHENOLOGY: Flowering June-August
 COMMENTS: This species has been collected only once in Montana.

SCIENTIFIC NAME: *KOBRESIA MACROCARPA* Clokey ex Mack.
 COMMON NAME: Large-fruited kobresia
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *K. sibirica* (Turcz.) Boeckl.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive list
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Arctic Asia and North America, including AK, south to sc. MT, Park County, WY, and central CO. Disjunct.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Alpine areas; moist tundra, solifluction slopes, and gravelly lake shores; 2987 m (9,800 ft.) in MT
 PHENOLOGY: Fruit matures in late July and August
 COMMENTS: The only known site in Montana is in the Beartooth Mountains, but is not in the Absaroka-Beartooth Wilderness.

SENSITIVE

SCIENTIFIC NAME: **KOBRESIA SIMPLICIUSCULA** (Wahl.)

Mack.

COMMON NAME: Simple kobresia

FAMILY: Cyperaceae (Sedge Family).

MONTANA STATUS: Sensitive

GLOBAL and STATE RANKS (TNC): G5/S1

USFWS STATUS: None

USFS STATUS: Watch List

STATUS IN OTHER STATES: Extirpated from ID,

extirpated from OR

GLOBAL DISTRIBUTION: Circumboreal, south in W.

America to Newf., Que., CO, ID, and OR. Sparse.

MONTANA COUNTIES: Glacier

LAND OWNERSHIP: Glacier National Park

PHYSIOGRAPHIC DISTRIBUTION: Lewis Range

HABITAT: Moist tundra in the alpine zone, 2320-2440 m (7,600-8,000 ft.)

PHENOLOGY: Mature fruit in late July and August

COMMENTS: Populations of this species are small and very local.

SCIENTIFIC NAME: **LATHYRUS BIJUGATUS** White

COMMON NAME: Pinewoods peavine, Latah tule pea

FAMILY: Fabaceae (Pea Family)

MONTANA STATUS: Sensitive

GLOBAL and STATE RANKS (TNC): G4G5/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Eastern WA, n. ID, and nw. MT. Regional endemic.

MONTANA COUNTIES: Flathead

LAND OWNERSHIP: Glacier National Park

PHYSIOGRAPHIC DISTRIBUTION: Upper Flathead River drainage

HABITAT: Open ponderosa pine and western larch forests in the valley and foothill zones, 1070 m (3,500 ft.)

PHENOLOGY: Flowering in June

COMMENTS: There is only one confirmed location for this species in Montana. There is also a 90 year-old collection from the Flathead Valley.

SCIENTIFIC NAME: **KOCHIA AMERICANA** Wats.

COMMON NAME: Red sage

FAMILY: Chenopodiaceae (Goosefoot Family)

MONTANA STATUS: Sensitive

GLOBAL and STATE RANKS (TNC): G4/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Southeastern OR to CA, e.

through s. ID to extreme s. MT, WY, CO, and NM.

Peripheral.

MONTANA COUNTIES: Beaverhead

LAND OWNERSHIP: Beaverhead N.F.

PHYSIOGRAPHIC DISTRIBUTION: Southwestern valleys

HABITAT: Plains and foothills, mostly in strongly saline or alkaline soil, 2560 m (8,400 ft.)

PHENOLOGY: Flowering June-August

COMMENTS: This species has been collected only twice in Montana. The sites of these historical collections have not been relocated.

SCIENTIFIC NAME: **LEPTODACTYLON CAESPITOSUM** Nutt.

COMMON NAME: Tufted leptodactylon

FAMILY: Polemoniaceae (Phlox Family)

MONTANA STATUS: Sensitive

GLOBAL and STATE RANKS (TNC): G3G4/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Southcentral MT, WY, and UT, to NE and CO. Peripheral.

MONTANA COUNTIES: Carbon

LAND OWNERSHIP: BLM, Miles City District

PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area

HABITAT: Dry barren hills, in rocky soils or in crevices of outcrops, 1465 m (4,800 ft.)

PHENOLOGY: Flowering in June

COMMENTS: This species has been collected only once in Montana.

SCIENTIFIC NAME: **LAGOPHYLLA RAMOISSIMA** Nutt.

COMMON NAME: Slender hareleaf

FAMILY: Asteraceae (Sunflower Family)

MONTANA STATUS: Sensitive

GLOBAL and STATE RANKS (TNC): G5/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: WA to w. MT, south to NV and CA. Peripheral.

MONTANA COUNTIES: Sanders

LAND OWNERSHIP: Private

PHYSIOGRAPHIC DISTRIBUTION: Lower Flathead River drainage

HABITAT: Open or disturbed places in dry grasslands in the valleys, 915 m (3,000 ft.)

PHENOLOGY: Flowering July-August

COMMENTS: There is only one known population in Montana.

SCIENTIFIC NAME: **LESQUERELLA CARINATA** Rollins

COMMON NAME: Keel bladderpod

FAMILY: Brassicaceae (Mustard Family)

MONTANA STATUS: Sensitive

GLOBAL and STATE RANKS (TNC): G4/S1

USFWS STATUS: None

USFS STATUS: Sensitive

GLOBAL DISTRIBUTION: East-central ID, nw. WY, and sw. MT. Regional endemic.

MONTANA COUNTIES: Beaverhead(?), Granite

LAND OWNERSHIP: Deerlodge N.F.; BLM, Butte District; private

PHYSIOGRAPHIC DISTRIBUTION: Upper Clark Fork River drainage, Centennial Mtns.(?)

HABITAT: Open, usually calcareous, soil of grasslands and rocky areas in the foothills and alpine(?) zones, 1370-2900 m (4,500-9,500 ft.)

PHENOLOGY: Flowering in May, mature fruit in June

COMMENTS: A vegetative specimen from the Centennial Mtns. appears to be L. carinata, but identification is uncertain. Mature fruit is needed for positive identification. Specimens from upper Rock Creek are L. paysonii.

SENSITIVE

SCIENTIFIC NAME: *LESQUERELLA HUMILIS* Rollins
 COMMON NAME: Few-seeded bladderpod
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G1/S1
 USFWS STATUS: C2
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Ravalli Co., MT. Local endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Subalpine and alpine slopes, in krummholz zone and higher; in open, rocky areas on granitic substrates; 2680-2923 m (8,800-9,587 ft.)
 PHENOLOGY: Flowering in late June and July, fruiting in July and early August
 COMMENTS: In spite of thorough field surveys, this recently described species (Rollins 1984) is known from only three summits in the Bitterroot Mountains. It is endemic to Montana.

SCIENTIFIC NAME: *LESQUERELLA PAYSONII* Rollins
 COMMON NAME: Payson's bladderpod
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in ID
 GLOBAL DISTRIBUTION: Western WY, e. ID and sw. MT. Regional endemic.
 MONTANA COUNTIES: Granite
 LAND OWNERSHIP: Deerlodge N.F., private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Upper Clark Fork River drainage
 HABITAT: Gravelly slopes and ridgetops in the montane zone, 1705 m (5,600 ft.)
 PHENOLOGY: Flowering in June, mature fruit in July
 COMMENTS: The single known Montana population was previously mistaken for *L. carinata*.

SCIENTIFIC NAME: *LEWISIA COLUMBIANA* (Howell) Robins.
 COMMON NAME: Columbia lewisia
 FAMILY: Portulacaceae (Purslane Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: 3C
 USFS STATUS: None
 GLOBAL DISTRIBUTION: West of the Cascades from B.C. to CA and in ne. OR, adjacent ID and MT. Var. *wallowensis* is a regional endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Moist rock crevices along streams in the foothill and montane zones, 1370-1520 m (4,500-5,000 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: This plant is currently known in Montana from only one canyon in the Bitterroot Range. Our plants are var. *wallowensis* Hitchc.

SCIENTIFIC NAME: *LEWISIA PYGMAEA* (Gray) Robbins. var. *NEVADENSIS* (Gray) Fosberg
 COMMON NAME: Nevada lewisia
 FAMILY: Portulacaceae (Purslane Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5T4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to CA, east to MT and NV; the range of the species as a whole is Yuk. to CA, east to MT and NM. Peripheral.
 MONTANA COUNTIES: Beaverhead, Deer Lodge, Ravalli
 LAND OWNERSHIP: Beaverhead N.F., Bitterroot N.F., Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot and Anaconda ranges
 HABITAT: Moist meadows and open forest in the montane and subalpine zones, 1705-2135 m (5,600-7,000 ft.)
 PHENOLOGY: Flowering late June to July
 COMMENTS: Hitchcock et al. (1964) do not consider this variety worthy of recognition.

SCIENTIFIC NAME: *LILAEA SCILLOIDES* (Poir.) Hauman.
 COMMON NAME: Flowering quillwort
 FAMILY: Juncaginaceae (Arrow-grass Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to Baja Cal., east to Alta., MT, ID and NV. Peripheral.
 MONTANA COUNTIES: Lake
 LAND OWNERSHIP: Flathead Indian Reservation
 PHYSIOGRAPHIC DISTRIBUTION: Lower Flathead River Valley
 HABITAT: Wet or submerged mud of ponds in the valley zone, ca. 910 m (3,000 ft.)
 PHENOLOGY: Mature fruit in July
 COMMENTS: This species has been collected only twice in Montana, most recently in 1965.

SCIENTIFIC NAME: *LILIUM COLUMBIANUM* Hanson
 COMMON NAME: Tiger lily
 FAMILY: Liliaceae (Lily Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: B.C. to CA, NV and MT. Peripheral.
 MONTANA COUNTIES: Lincoln
 LAND OWNERSHIP: Kootenai N.F., private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Yaak River drainage
 HABITAT: Thickets and coniferous forests in the montane zone, 790-1400 m (2,600-4,600 ft.)
 PHENOLOGY: Flowering June-July

SENSITIVE

SCIENTIFIC NAME: *LINARIA CANADENSIS* (L.) Dum.-Cours.
 COMMON NAME: Blue toadflax
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY, rare in B.C.
 GLOBAL DISTRIBUTION: Que., SD, and B.C., south to FL, Mex., and Baja Ca. Peripheral.
 MONTANA COUNTIES: Carter, Dawson
 LAND OWNERSHIP: State, private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Open, sandy soil in grasslands and woodlands on the plains, 635-1125 m (2,100-3,700 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This inconspicuous and ephemeral annual may be more common than records indicate. Our plants are var. *texana* (Scheele) Pennell.

SCIENTIFIC NAME: *LOBELIA SPICATA* Lam.
 COMMON NAME: Palespike lobelia
 FAMILY: Campanulaceae (Bellflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Sask. to se. Can., south to GA, LA, TX and NE. Peripheral.
 MONTANA COUNTIES: Richland, Sheridan, reported for Daniels (Great Plains Flora Ass. 1977)
 LAND OWNERSHIP: Private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Prairies and meadows
 PHENOLOGY: Flowering July-August
 COMMENTS: The only known collections were made in 1924 and 1943.

SCIENTIFIC NAME: *LOMATIUM GEYERI* (Wats.) Coult. & Rose
 COMMON NAME: Geyer's lomatium
 FAMILY: Apiaceae (Parsley Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Eastern WA, s. B.C., n. ID, and nw. MT. Regional endemic.
 MONTANA COUNTIES: Lincoln
 LAND OWNERSHIP: Kootenai N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Yaak River drainage
 HABITAT: Vernally moist soil in open or partially shaded habitats in the montane zone, ca. 730 m (2,400 ft.)
 PHENOLOGY: Flowering in late May and June
 COMMENTS: Currently there is only one known location for this species in Montana, but it is reported to be common near Troy.

SCIENTIFIC NAME: *LYCOPODIUM ALPINUM* L.
 COMMON NAME: Alpine clubmoss
 FAMILY: Lycopodiaceae (Clubmoss Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to B.C., nw. MT, and Que. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier, Lincoln
 LAND OWNERSHIP: Glacier National Park, Kootenai N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Cabinet Mtns., Lewis Range, Livingston Range
 HABITAT: Moist tundra in the alpine and subalpine zones, 1980-2440 m (6,500-8,000 ft.)
 PHENOLOGY: Mature cones in late July and August
 COMMENTS: This species is locally common above timberline in Glacier Park.

SCIENTIFIC NAME: *LYCOPODIUM INUNDATUM* L.
 COMMON NAME: Northern bog clubmoss
 FAMILY: Lycopodiaceae (Club Moss Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., category 1 (endangered) in ID, threatened in OR, rare in Sask., sensitive in WA
 GLOBAL DISTRIBUTION: Interruptedly circumboreal, s. in America to nw. CA, n. ID, nw. MT, MN, NY, and VA, and to FL and TX. Peripheral.
 MONTANA COUNTIES: Missoula, reported from nw. MT, possibly Flathead
 LAND OWNERSHIP: Flathead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Swan River drainage
 HABITAT: Bogs, fens and other wet places; 1255 m (4,110 ft.)
 PHENOLOGY: Producing spores during June-July
 COMMENTS: Reported for northwest Montana by Hitchcock and Cronquist (1973).

SCIENTIFIC NAME: *LYCOPODIUM OBSCURUM* L.
 COMMON NAME: Tree clubmoss, groundpine
 FAMILY: Lycopodiaceae (Club Moss Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Undetermined in SD
 GLOBAL DISTRIBUTION: Boreal N. America and Asia, s. in the U.S. to WA, n. ID, nw. MT, IN, and AL. Peripheral.
 MONTANA COUNTIES: Flathead
 LAND OWNERSHIP: Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Woodlands and moist places at lower elevations; ca. 975 m (3,200 ft.)
 PHENOLOGY: Producing spores during summer
 COMMENTS: This species is known in Montana only from one collection made in 1892.

SCIENTIFIC NAME: **MACHAERANTHERA COMMIXTA** Greene
 COMMON NAME: Mixed aster
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: M. canescens (Pursh) Gray var. monticola Dorn
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central ID and sw. MT to WY and UT. Peripheral
 MONTANA COUNTIES: Madison
 LAND OWNERSHIP: BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: Ruby Range
 HABITAT: Slopes and ridges at mid- to high elevations in the mountains; 2700 m (8,860 ft.) in MT
 PHENOLOGY: Flowering August
 COMMENTS: This species has been collected only once in Montana.

SCIENTIFIC NAME: **MADIA MINIMA** (Gray) Keck
 COMMON NAME: Small-headed tarweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: WA, n. ID, nw. MT, and s. B.C., s. to CA. Peripheral.
 MONTANA COUNTIES: Lincoln, Missoula, Ravalli, Sanders
 LAND OWNERSHIP: Bitterroot N.F., Flathead N.F., Kootenai N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Bull River drainage, Cabinet Mtns., Mission Mtns., Yaak River drainage
 HABITAT: Dry, open woods, prairies, and slopes, at low to mid-elevations in the mountains; 870-1525 m (2,850-5,000 ft.)
 PHENOLOGY: Flowering May-June, fruiting June-July
 COMMENTS: This plant is likely to be more common than records indicate.

SCIENTIFIC NAME: **MAIANTHEMUM CANADENSE** Desf.
 COMMON NAME: Wild lily-of-the-valley
 FAMILY: Liliaceae (Lily Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southern Canada south to NC, IN, SD and WY. Peripheral.
 MONTANA COUNTIES: Carter
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Little Missouri River Valley
 HABITAT: Moist humus soil in riparian forest on the plains, ca. 1036 m (3,400 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: The only Montana collection of this species was made 40 years ago. Our plants are var. interius Fern.

SCIENTIFIC NAME: **MALACOTHRIX TORREYI** Gray
 COMMON NAME: Desert dandelion
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Monitor list in ID, watch list in OR
 GLOBAL DISTRIBUTION: Southcentral MT, WY, to se. OR, s. to AZ, NV, and CA(?); also ec. ID. Disjunct.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area
 HABITAT: Dry plains and hills, 1570 m (5,140 ft.)
 PHENOLOGY: Flowering in June

SCIENTIFIC NAME: **MENTZELIA MONTANA** (Davids.) Davids.
 COMMON NAME: Mountain blazing star
 FAMILY: Loasaceae (Blazing Star Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/SU
 USFWS STATUS: None
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Southern OR to s. MT, south to CA, TX and Mex.
 MONTANA COUNTIES: Park
 LAND OWNERSHIP: Unknown
 PHYSIOGRAPHIC DISTRIBUTION: Yellowstone River drainage
 HABITAT: Grasslands and open slopes in the valley and montane zone
 PHENOLOGY: Unknown

SCIENTIFIC NAME: **MENTZELIA NUDA** (Pursh) T. & G.
 COMMON NAME: Bractless mentzelia
 FAMILY: Loasaceae (Blazing Star Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/SU
 USFWS STATUS: None
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Eastern MT and SD south to CO KS and TX. Peripheral.
 MONTANA COUNTIES: Big Horn, Custer, Dawson, Rosebud, Treasure
 LAND OWNERSHIP: Unknown
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Sandy or gravelly soil of hills and roadsides, 640-760 m (2,100-2,500 ft.)
 PHENOLOGY: Unknown

SCIENTIFIC NAME: **MENTZELIA PUMILA** Torr. & Gray
 COMMON NAME: Dwarf mentzelia
 FAMILY: Loasaceae (Blazing Star Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND
 GLOBAL DISTRIBUTION: ND and se. MT to CO, UT and NV. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area
 HABITAT: Open, usually sandy soil in desert shrubland and woodland in the valley and foothill zones, 1310-1520 m (4,300-5,000 ft.)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: Known Montana populations of this species are generally small and local.

SENSITIVE

SCIENTIFIC NAME: *MERTENSIA BELLA* Piper
 COMMON NAME: Oregon bluebells
 FAMILY: Boraginaceae (Borage Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Monitor list in ID
 GLOBAL DISTRIBUTION: Southwest OR, central ID and adjacent MT. Disjunct.
 MONTANA COUNTIES: Missoula
 LAND OWNERSHIP: Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Wet, seepy, open or partially shaded slopes in the montane zone, ca. 1860 m (6,100 ft.)
 PHENOLOGY: Flowering in late May and June
 COMMENTS: One of the three Montana populations is adjacent to an active mining operation.

SCIENTIFIC NAME: *MIMULUS MANUS* Hook. & Arn.
 COMMON NAME: Dwarf purple monkey-flower
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA, s. to n. CA, e. to sw. MT, Yellowstone N.P., and ne. NV. Peripheral.
 MONTANA COUNTIES: Gallatin, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Yellowstone region
 HABITAT: Dry, open, often sandy or gravelly places, in the plains, valleys, and foothills; 1525-1830 m (5,000-6,000 ft.)
 PHENOLOGY: Flowering June-July

SCIENTIFIC NAME: *MIRABILIS HIRSUTA* (Pursh) MacMill.
 COMMON NAME: Hairy four-o'clock
 FAMILY: Nyctaginaceae (Four-o'clock Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WI to Man. and e. MT, south to LA, TX, and NM. Peripheral.
 MONTANA COUNTIES: Carter, Chouteau, Sheridan
 LAND OWNERSHIP: State, Medicine Lake N.W.R., private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Often sandy soils in grasslands on the plains, 610-1000 m (2,000-3,300 ft.)
 PHENOLOGY: Flowering in June and July
 COMMENTS: Two of the three known Montana populations of this species are small.

SCIENTIFIC NAME: *MAJAS GUADALUPENSIS* (Spreng.) Morong
 COMMON NAME: Guadalupe water-nymph
 FAMILY: Najadaceae (Water-nymph Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND, rare in WY
 GLOBAL DISTRIBUTION: OR to CA, east to Quebec and the Atlantic coast; Mexico to S. America, West Indies. Peripheral.
 MONTANA COUNTIES: Cascade, Flathead, Lake
 LAND OWNERSHIP: Private, USFWS
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Valley, Great Plains
 HABITAT: In fresh water; 880-1025 m (2,890-3,360 ft.)
 PHENOLOGY: Flowering July-August

SCIENTIFIC NAME: *OPHIOGLOSSUM VULGATUM* L.
 COMMON NAME: Adder's tongue
 FAMILY: Ophioglossaceae (Grape-fern Family)
 PERTINENT SYNONYMS: *O. pusillum* Raf.
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND, threatened in WA, rare in B.C.
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to FL, LA, TX, and Mex. Sparse.
 MONTANA COUNTIES: Flathead, Lake, Lincoln
 LAND OWNERSHIP: Flathead N.F., State, private, Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River drainage
 HABITAT: Wet meadows and moist, often gravelly soil in the valley, foothill, and montane zones, 880-1250 m (2,900-4,100 ft.)
 PHENOLOGY: Mature fronds in July and August
 COMMENTS: Two populations of this species can no longer be located. Most known Montana populations are small. Lellinger (1985) feels that the plants occurring north of the glacial boundary in N. America are worthy of recognition at the species level.

SCIENTIFIC NAME: *ORCHIS ROTUNDIFOLIA* Banks
 COMMON NAME: Round-leaved orchis
 FAMILY: Orchidaceae (Orchid Family)
 PERTINENT SYNONYMS: *Amerorchis rotundifolia* (Banks) Hulten
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: AK to Greenland, s. to s. B.C., nw. MT, and nw. WY, NM, MI, WI, and NY. Peripheral.
 MONTANA COUNTIES: Flathead, Lewis & Clark, Pondera, Powell, Teton
 LAND OWNERSHIP: Flathead N.F., Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Mtns., Front Range Mtns.
 HABITAT: Along streams and in wet woods, but usually where the drainage is good, often on limestone; 1430-1615 m (4,700-5,300 ft.)
 PHENOLOGY: Flowering late June and early July
 COMMENTS: This species is currently known from nearly 20 sites in Montana.

SCIENTIFIC NAME: **OROBANCHE CORYMBOSA** (Rydb.) Ferris
 COMMON NAME: Flat-topped broomrape
 FAMILY: Orobanchaceae (Broomrape Family)
 PERTINENT SYNONYMS: Orobanche californica Cham. & Schlecht. var. corymbosa (Rydb.) Munz.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern B.C. to sw. MT, south to CA, NV and UT. Peripheral.
 MONTANA COUNTIES: Beaverhead, Ravalli
 LAND OWNERSHIP: Big Hole National Battlefield private(?), BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: Big Hole River, Beaverhead River, Bitterroot River drainages
 HABITAT: Plains and hills, 1920 m (6,300 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This species is parasitic, most often on the roots of Artemisia tridentata. Populations are often small.

SCIENTIFIC NAME: **OROGENIA LINEARIFOLIA** Wats.
 COMMON NAME: Great Basin orogenia
 FAMILY: Apiaceae (Carrot Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: S. WA (e. of the Cascades) and adj. ID, e. to sw. MT, and s. to e. OR, s. ID, UT, and w. CO. Peripheral.
 MONTANA COUNTIES: Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Open slopes, ridges, and meadows, from the lower foothills to moderate elevations in the mountains, 1250-1585 m (4,100-5,200 ft.)
 PHENOLOGY: Flowering in May, soon after snowmelt
 COMMENTS: This early-blooming species may be more common than records indicate.

SCIENTIFIC NAME: **OXYTROPIS PODOCARPA** Gray
 COMMON NAME: Stalked-pod crazyweed
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in B.C., rare in WY
 GLOBAL DISTRIBUTION: Alta. to Labr., south in Rocky Mtns. to CO. Sparse.
 MONTANA COUNTIES: Glacier, Teton
 LAND OWNERSHIP: Glacier N.P., Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Front Range Mtns.
 HABITAT: Alpine ridges and slopes, often on limestone substrates; 2225-2500 m (7,300-8,200 ft.)
 PHENOLOGY: Flowering in June, fruiting late June through August
 COMMENTS: A collection was made in Glacier National Park in 1897, and the occurrence has not been verified since then. Four recently observed locations are all in the Front Range, outside of the Bob Marshall Wilderness Area.

SCIENTIFIC NAME: **PAPAVER KLUANENSIS** D. Love
 COMMON NAME: Alpine poppy
 FAMILY: Papaveraceae (Poppy Family)
 PERTINENT SYNONYMS: P. kluanense Love, P. radiculatum Rottb. (in part)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Endangered in ID
 GLOBAL DISTRIBUTION: Yuk., B.C., and Alta., south to CO and NM. Sparse.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Open, rocky soil of slopes where snow lies later in the year in the alpine zone, 3290-3540 m (10,800-11,600 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: One of three known Montana locations for this species is adjacent to a major hiking trail.

SCIENTIFIC NAME: **PENSTEMON ANGUSTIFOLIUS** Nutt.
 COMMON NAME: Narrowleaf penstemon, narrow beardtongue
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: ND w. to e. MT and central WY, s. to OK, n. NM, w. CO, e. UT, and nw. AZ. Peripheral.
 MONTANA COUNTIES: Dawson (Dorn, 1984); Carter, Fallon (G.P.F.A. 1977)
 LAND OWNERSHIP: State, private
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains
 HABITAT: Sandy to gravelly soil in open prairies and sandhills, 610-975 m (2,000-3,200 ft.)
 PHENOLOGY: Flowering May-June

SCIENTIFIC NAME: **PENSTEMON ATTENUATUS** Dougl. var. **MILITARIS** (Greene) Cronq.
 COMMON NAME: Taper-leaved beardtongue
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4T4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Central ID, from the Salmon R. axis on the n. to the Snake R. plains on the s., barely extending into adjacent MT; also in the mtns. of Cassia Co., ID. Regional endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Drier meadows to moist, open or wooded slopes at moderate to rather high elevations in the mountains, 2439 m (8,000 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: Currently known in Montana from only one location, where it was last observed in 1968.

SCIENTIFIC NAME: *PENSTEMON PAYETTENSIS* Nels. & Macbr.

COMMON NAME: Payette beardtongue
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northeast OR, central ID, and west-central MT. Regional endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Open soil in the montane zone, 1680-1830 m (5,500-6,000 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: There is only one known location for this species in Montana.

SCIENTIFIC NAME: *PENSTEMON WHIPPLEANUS* Gray
 COMMON NAME: Whipple's beardtongue
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern ID and sw. MT, south to UT, CO, AZ, and NM. Peripheral.
 MONTANA COUNTIES: Madison
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Madison Range
 HABITAT: Open, often rocky soil of dry meadows in the subalpine and alpine zones
 PHENOLOGY: Flowering in late July and early August
 COMMENTS: This species has been collected only once in Montana, ca. 40 years ago.

SCIENTIFIC NAME: *PETASITES FRIGIDUS* (L.) Fries
 COMMON NAME: Sweet coltsfoot
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal, south to MA, MN, MT and CA.
 MONTANA COUNTIES: Flathead
 LAND OWNERSHIP: Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Livingston Range
 HABITAT: Swampy, partially open areas of forests in the montane zone, 1220 m (4,000 ft.)
 PHENOLOGY: Flowering in May
 COMMENTS: The only known Montana population was recently disturbed by fire prevention activities. It occurs with the more common *P. sagittatus*.

SCIENTIFIC NAME: *PHACELIA INCANA* Brand
 COMMON NAME: Hoary phacelia
 FAMILY: Hydrophyllaceae (Waterleaf Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: Central ID and sw. MT, south to CO, UT, and NV. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: Tendency Mtns.
 HABITAT: Open, limestone-derived soil of warm slopes in sagebrush grassland and mountain-mahogany shrublands in the foothill and montane zones, 2070-2160 m (6,800-7,100 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: There are two known locations for this species in Montana.

SCIENTIFIC NAME: *PHACELIA IVESIANA* Torr.
 COMMON NAME: Ives' phacelia
 FAMILY: Hydrophyllaceae (Waterleaf Family)
 PERTINENT SYNONYMS: *P. glandulifera* Piper
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to CA, east to MT, WY, and NM. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area
 HABITAT: Open, sandy soil in sagebrush grassland and desert shrubland in the valley and foothill zones, 1280-1650 m (4,200-5,400 ft.)
 PHENOLOGY: Flowering in late May and early June
 COMMENTS: Our plants are var. *glandulifera* Nels. & Macbr.

SCIENTIFIC NAME: *PHACELIA SCOPULINA* (A. Nels.) Howell
 COMMON NAME: Branching phacelia
 FAMILY: Hydrophyllaceae (Waterleaf Family)
 PERTINENT SYNONYMS: *P. lutea* (H. & A.) Howell var. *scopulina* (A. Nels.) Cronq.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest MT, WY, NV, and OR, south to UT and CA. Disjunct.
 MONTANA COUNTIES: Silver Bow
 LAND OWNERSHIP: BLM, Butte District(?); private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Lower Big Hole River drainage
 HABITAT: Open soil of grassland in the valley zone, ca. 1580 m (5,280 ft.)
 PHENOLOGY: Unknown
 COMMENTS: The only Montana collection of this species was made nearly 100 years ago.

SCIENTIFIC NAME: PHACELIA THERMALIS Greene
 COMMON NAME: Hot spring phacelia
 FAMILY: Hydrophyllaceae (Waterleaf Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southeast OR to n. CA, east to s. ID and MT. Disjunct.
 MONTANA COUNTIES: Garfield, Phillips
 LAND OWNERSHIP: C. M. Russel N.W.R., private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Sparsely vegetated soil in grasslands and open forests on the plains, 610-700 m (2,000-2,300 ft.)
 PHENOLOGY: Flowering in early June
 COMMENTS: This species occupies disturbed habitats and could be adventive in Montana.

SCIENTIFIC NAME: PLAGIOBOTHRYUS LEPTOCLADUS (Greene) Johnst.

COMMON NAME: Slender-branched popcorn-flower, hairy popcorn-flower
 FAMILY: Boraginaceae (Borage Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: OR to MT, south to UT and Baja Cal. Disjunct.
 MONTANA COUNTIES: Phillips, reported for Glacier (Standley 1921)
 LAND OWNERSHIP: BLM, Lewistown District; Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Missouri River drainage
 HABITAT: Drying mud on the shores of ponds on the plains, 850 m (2,800 ft.)
 PHENOLOGY: Mature fruit in August
 COMMENTS: There is only one verified location for this species in Montana. Mature fruit is needed for positive identification.

SCIENTIFIC NAME: POLYGONUM DOUGLASII Greene ssp.

AUSTINIAE (Greene) Hickman

COMMON NAME: Austin's knotweed
 FAMILY: Polygonaceae (Buckwheat Family)
 PERTINENT SYNONYMS: P. austiniae Greene
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4T4/S1
 USFWS STATUS: None
 USFS STATUS: Watch List
 STATUS IN OTHER STATES: Sensitive in WA, rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to CA, east to Alta., MT and WY. The species as a whole occurs throughout most of the U.S. and southern Canada. Sparse.
 MONTANA COUNTIES: Broadwater, Lewis & Clark, Pondera
 LAND OWNERSHIP: Helena N.F., Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Front Range, Big Belt Mtns.
 HABITAT: Open, gravelly, often shale-derived soil of eroding slopes and banks in the montane zone ca. 1770-2010 m (5,800-6,600 ft.)
 PHENOLOGY: Flowering in July, mature fruit in August
 COMMENTS: This small plant is easily overlooked and may be more common than records indicate. Mature fruit is needed for positive identification.

SCIENTIFIC NAME: POLYSTICHUM KRUCKEBERGII Wagner
 COMMON NAME: Kruckeberg's sword-fern
 FAMILY: Polypodiaceae (Fern Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: 3C
 USFS STATUS: Watch List
 STATUS IN OTHER STATES: Sensitive in ID, review list in OR, rare in B.C.
 GLOBAL DISTRIBUTION: Irregularly from s. B.C. and nw. WA (Olympic Mtns.) to s. CA, e. to c. ID, w. MT, and n. UT. Peripheral.
 MONTANA COUNTIES: Deer Lodge, Lake; possibly Missoula.
 LAND OWNERSHIP: Deerlodge N.F., Flathead Indian Res.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda-Pintlar Range, Mission Range
 HABITAT: Cliff crevices and talus slopes at middle and upper elevations in the mountains, 2195-2830 m (7,200-9,275 ft.)
 PHENOLOGY: Mature fronds in August
 COMMENTS: This fern species is widely scattered in the western U.S. and southwest Canada. Lellinger (1985) states that this species is very rare.

SCIENTIFIC NAME: POLYSTICHUM SCOPULINUM (D.C. Eat) Maxon

COMMON NAME: Mountain holly fern, crag holly fern, rock sword-fern
 FAMILY: Polypodiaceae (Fern Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to CA, east to w. MT and UT; Que. Peripheral.
 MONTANA COUNTIES: Ravalli, Sanders
 LAND OWNERSHIP: Bitterroot N.F., Kootenai N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Cabinet Gorge
 HABITAT: Moist rock crevices in subalpine zone, 2195 m (7,200 ft); moist rocks along rivers in the valleys, 665 m (2180 ft)
 PHENOLOGY: Fertile fronds in late June and July
 COMMENTS: The low-elevation site is in man-made habitat.

SCIENTIFIC NAME: POTAMOGETON OBTUSIFOLIUS Mert. & Koch

COMMON NAME: Blunt-leaved pondweed
 FAMILY: Potamogetonaceae (Pondweed Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in Sask., rare in B.C., rare in Alta., sensitive in WA, rare in WY
 GLOBAL DISTRIBUTION: B.C. to Newf. south to NJ, KS, MN, WA, and WY. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier, Lake, Missoula
 LAND OWNERSHIP: Flathead N.F., Glacier National Park, Blackfoot Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River drainage, Lewis Range, Two Medicine River drainage
 HABITAT: Shallow water of lakes, ponds and sloughs in the valley, foothill, and montane zones, 914-1580 m (3,000-5,200 ft.)
 PHENOLOGY: Mature fruit in late July and August
 COMMENTS: This species is difficult to distinguish from other narrow-leaved pondweeds. It may be more common in Montana than records indicate.

SENSITIVE

SCIENTIFIC NAME: *POTENTILLA BREVIFOLIA* Nutt.
 COMMON NAME: Short-leaved cinquefoil
 FAMILY: Rosaceae (Rose family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northeast OR to sw. MT, south to nw. WY and n. NV. Regional endemic.
 MONTANA COUNTIES: Madison
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Madison Range
 HABITAT: Open, rocky soil and scree in the alpine zone, 3080 m (10,100 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This species is known from only one location in Montana.

SCIENTIFIC NAME: *POTENTILLA DIVERSIFOLIA* Lehm. var. *MULTISECTA* Wats.

COMMON NAME: Diverse-leaved cinquefoil
 FAMILY: Rosaceae (Rose Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5T3T4/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: NV and UT, east to ID and MT.
 Range of the species as a whole is Yuk. to CA, east to Sask. and NM. Peripheral.
 MONTANA COUNTIES: Gallatin, Park
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bridger Mtns., Crazy Mtns.
 HABITAT: Dry, rocky slopes and ridges in the subalpine and alpine zone, 2135-2745 m (7,000-9,000 ft)
 PHENOLOGY: Flowering in late May and June
 COMMENTS: All of our records are at least 90 years ago.

SCIENTIFIC NAME: *POTENTILLA PLATTENSIS* Nutt.
 COMMON NAME: Platte cinquefoil
 FAMILY: Rosaceae (Rose Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta.
 GLOBAL DISTRIBUTION: Alta. to Man., south to AZ and NM. Sparse.
 MONTANA COUNTIES: Beaverhead, Big Horn
 LAND OWNERSHIP: Custer N.F., Red Rock Lakes N.W.R.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area, Centennial Valley
 HABITAT: Grasslands in the valleys and on the plains, 1830-2440 m (6,000-8,000 ft)
 PHENOLOGY: Flowering in June

SCIENTIFIC NAME: *POTENTILLA QUINQUEFOLIA* Rydb.
 COMMON NAME: Snow cinquefoil
 FAMILY: Rosaceae (Rose Family)
 PERTINENT SYNONYMS: *P. nivea* L. var. *quinquefolia* Rydb.
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C. and Sask., sensitive in WA
 GLOBAL DISTRIBUTION: B.C. to Sask. south to OR, UT, and CO. Sparse.
 MONTANA COUNTIES: Flathead, Glacier, Granite, Madison, Park
 LAND OWNERSHIP: BLM, Missoula District; Glacier N.P.; Beaverhead N.F.; Flathead N.F.; Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Gallatin, Gravelly, Lewis, and Swan ranges and Clark Fork River drainage
 HABITAT: Dry, gravelly soil of windswept ridges and slopes in the alpine zone, 1980-3050 m (6,500-10,000 ft)
 PHENOLOGY: Flowering in July
 COMMENTS: This species is part of a difficult complex that includes *P. nivea* and *P. uniflora*

SCIENTIFIC NAME: *POTENTILLA UNIFLORA* Ledeb.
 COMMON NAME: One-flowered cinquefoil
 FAMILY: Rosaceae (Rose family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: AK and Canadian arctic, south to B.C., Alta., MT, and CO; Asia. Sparse.
 MONTANA COUNTIES: Deer Lodge
 LAND OWNERSHIP: Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Range
 HABITAT: Open, gravelly soil in the alpine zone, 2960 m (9,700 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: This species can be confused with the more common *P. nivea*.

SCIENTIFIC NAME: *PRUNUS PUMILA* L.
 COMMON NAME: Sand cherry
 FAMILY: Rosaceae (Rose Family)
 PERTINENT SYNONYMS: *P. besseyi* Bailey
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Sask.
 GLOBAL DISTRIBUTION: MT, Sask., and MN, south to CO and KS. Peripheral.
 MONTANA COUNTIES: Fallon, McCone
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Sandy or rocky, open soil on the plains, ca. 975 m (3,200 ft)
 PHENOLOGY: Mature fruit in June
 COMMENTS: This species may be more common than records indicate.

SCIENTIFIC NAME: *PSILOCARPHUS BREVISSIMUS* Nutt.
 COMMON NAME: Dwarf woolly-heads
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Review list in ID, rare in WY
 GLOBAL DISTRIBUTION: WA to Baja Cal., east to MT, WY,
 and UT; S. America. Sparse.
 MONTANA COUNTIES: Cascade, Phillips, Sanders
 LAND OWNERSHIP: State; BLM, Lewistown District;
 private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River drainage,
 Clark Fork River drainage, Northern Great Plains
 HABITAT: Drying mud of vernal ponds and other
 vernal wet places in the valley zone and on the
 plains, 670-910 m (2,200-3,000 ft.)
 PHENOLOGY: Mature fruit in June through early August
 COMMENTS: This inconspicuous plant may be more common
 than records indicate.

SCIENTIFIC NAME: *RANUNCULUS CARDIOPHYLLUS* Hook.
 COMMON NAME: Heart-leaved buttercup
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND, Rare in
 B.C.
 GLOBAL DISTRIBUTION: Northw. Terr., B.C., Alta., and
 Sask., south to n. WA, UT, and AZ. Sparse.
 MONTANA COUNTIES: Glacier, Sweet Grass
 LAND OWNERSHIP: Blackfeet Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Front Range Mtns., Crazy
 Mtns.
 HABITAT: Moist meadows in the foothill zone,
 1520-1800 m (5,000-5,900 ft.)
 PHENOLOGY: Flowering in June

SCIENTIFIC NAME: *RANUNCULUS GELIDUS* Kar. & Kir.
 COMMON NAME: Arctic buttercup
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Review list in ID
 GLOBAL DISTRIBUTION: AK and n. Canada, south to
 Alta., MT, and CO. Disjunct
 MONTANA COUNTIES: Glacier, Stillwater
 LAND OWNERSHIP: Glacier National Park, Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Beartooth
 Mtns.
 HABITAT: Moist, open soil in tundra and talus slopes
 in the alpine zone, 2190-3600 m (7,200-11,800 ft.)
 PHENOLOGY: Mature fruit in August
 COMMENTS: This species is difficult to distinguish
 from the more common *R. pygmaeus* and *R. verecundus*.

SCIENTIFIC NAME: *RANUNCULUS HYPERBOREUS* Rottb.
 COMMON NAME: Arctic buttercup
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/SH
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumpolar, south in w. N.
 America to Alta. and MT. Peripheral.
 MONTANA COUNTIES: Jefferson
 LAND OWNERSHIP: Unknown
 PHYSIOGRAPHIC DISTRIBUTION: Unknown
 HABITAT: Shallow water of streams or ponds, ca. 1830
 m (6,000 ft)
 PHENOLOGY: Unknown
 COMMENTS: The only Montana collection was made nearly
 90 years ago.

SCIENTIFIC NAME: *RANUNCULUS JOVIS* A. Nels.
 COMMON NAME: Jove's buttercup
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Southeastern ID to NV, e. to sw.
 MT, Yellowstone National Park, sw. WY, and adjacent
 UT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Park
 LAND OWNERSHIP: Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Mtns.,
 Absaroka-Beartooth Mtns.
 HABITAT: In sagebrush to forested slopes, at mid- to
 high elevations in the mountains, 2285-2900 m
 (7,500-9,500 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This is a distinctive species, blooming
 soon after snow release.

SCIENTIFIC NAME: *RANUNCULUS PEDATIFIDUS* J. E. Smith
 COMMON NAME: Birdfoot buttercup
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Circumpolar, south in w. N.
 America to AZ and NM. Sparse.
 MONTANA COUNTIES: Cascade, Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park, Lewis & Clark
 N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Little Belt
 Mtns.
 HABITAT: Gravelly, open soil of windswept ridges in
 the alpine zone, 2135-2440 m (7,000-8,000 ft)
 PHENOLOGY: Flowering in June through August
 COMMENTS: Collections from Cascade and Flathead cos.
 are nearly 100 years old.

SENSITIVE

SCIENTIFIC NAME: **RIBES COGNATUM** Greene
 COMMON NAME: Shinyleaf gooseberry, Umatilla gooseberry
 FAMILY: Grossulariaceae (Gooseberry Family)
 PERTINENT SYNONYMS: R. oxycanthoides L. var. cognatum (Greene) Sinnott
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3G4/S1
 USFS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., Sensitive in WA
 GLOBAL DISTRIBUTION: B.C., e. WA and OR to nw MT.
 Regional endemic.
 MONTANA COUNTIES: Lincoln, Sanders
 LAND OWNERSHIP: Kootenai N.F., private (?)
 PHYSIOGRAPHIC DISTRIBUTION: Yeak River and Lower Clark Fork River drainages
 HABITAT: Wet cliffs in the valleys, 580-730 m (1,900-2,400 ft.)
 PHENOLOGY: Fruit in June
 COMMENTS: Only two small populations are known in Montana.

SCIENTIFIC NAME: **RIBES TRISTE** Pallas
 COMMON NAME: Swamp red currant, wild red current
 FAMILY: Grossulariaceae (Gooseberry Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: AK to Newf., south to OR, SD, and VA; Asia. Peripheral.
 MONTANA COUNTIES: Granite
 LAND OWNERSHIP: Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Mtns.
 HABITAT: Moist, rich soil along streams and in spruce forests in the montane zone, 1980-2135 m (6,500-7,000 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: Known only from a single, small drainage in the Anaconda-Pintler Wilderness.

SCIENTIFIC NAME: **RORIPPA CALYCINA** (Engelm.) Rydb.
 COMMON NAME: Persistent-sepal yellowcress
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S1
 USFS STATUS: C2
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Endangered in ND
 GLOBAL DISTRIBUTION: E. MT and WY, ND. Sparse.
 MONTANA COUNTIES: McCone; historically known from Cascade, Custer, and possibly Yellowstone.
 LAND OWNERSHIP: Private; BLM(?)
 PHYSIOGRAPHIC DISTRIBUTION: Great Plains.
 HABITAT: Riverbanks and shorelines, ca. 610-760 m (2,000-2,500 ft.)
 PHENOLOGY: Flowering and fruiting from May to July
 COMMENTS: In Montana, this species has been collected in only a few scattered locations east of the mountains.

SCIENTIFIC NAME: **RODALA RAMOSIOR** (L.) Koehne
 COMMON NAME: Toothcup
 FAMILY: Lythraceae (Loosestrife Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: MA to MN, south to FL, AK, TX and Mex., WA to nw. MT south to CA; S. America. Peripheral.
 MONTANA COUNTIES: Lake, Missoula
 LAND OWNERSHIP: Flathead Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River and Flathead River drainages
 HABITAT: Open, wet, gravelly soil around ponds and sloughs in the valley zone, 980 m (3,200 ft.)
 PHENOLOGY: Flowering in late July and August
 COMMENTS: There are only two known location for this species in Montana.

SCIENTIFIC NAME: **SAGINA NIVALIS** (Lindbl.) Fries
 COMMON NAME: Snow pearlwort, arctic pearlwort
 FAMILY: Caryophyllaceae (Pink Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: Circumpolar, south in N. America to B.C., Alta., nw. MT and Lab. Disjunct.
 MONTANA COUNTIES: Glacier
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Moist, open, gravelly soil in the alpine zone, 2380 m (7,800 ft.)
 PHENOLOGY: Flowering in late July and early August
 COMMENTS: The Glacier Park population of this species is the only one known in the continental U.S.
 Plants from further south (i.e., Beartooth Mtns.) are intermediate between S. nivalis and S. saginoides.

SCIENTIFIC NAME: **SALIX BARRATTIANA** Hook.
 COMMON NAME: Barrat's willow
 FAMILY: Salicaceae (Willow Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: AK and Yuk., south to B.C., MT, and WY. Sparse.
 MONTANA COUNTIES: Carbon, Glacier
 LAND OWNERSHIP: Custer N.F. Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns., Lewis Range
 HABITAT: Cold, moist soil in the alpine zone, 2075-3200 m (6,800-10,500 ft.)
 PHENOLOGY: Mature fruit in July and August
 COMMENTS: This species is currently known from only two locations in Montana.

SCIENTIFIC NAME: *SALIX CASCADENSIS* Cockerell
 COMMON NAME: Cascades willow
 FAMILY: Salicaceae (Willow Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Watch List in OR
 GLOBAL DISTRIBUTION: B.C. to WA, east to MT, WY, CO, and UT. Sparse.
 MONTANA COUNTIES: Beaverhead, Deer Lodge, Sweet Grass
 LAND OWNERSHIP: Beaverhead N.F., Deerlodge N.F., Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda, Pioneer, and Crazy Mtns.
 HABITAT: Wet cliffs, talus slopes and meadows, subalpine and alpine, 2745-3050 m (9,000-10,000 ft)
 PHENOLOGY: Flowering in July

SCIENTIFIC NAME: *SALIX SERISSIMA* (Bailey) Fern.
 COMMON NAME: Autumn willow
 FAMILY: Salicaceae (Willow Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Critically rare in SD, rare in B.C.
 GLOBAL DISTRIBUTION: B.C., Alta., Sask. and Newf., south to NJ, MN, SD, and CO. Peripheral.
 MONTANA COUNTIES: Glacier, Meagher, Pondera, Teton
 LAND OWNERSHIP: Glacier National Park, Blackfeet Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Front Range, Little Belt Mtns.
 HABITAT: Swamps and fens in the valley and foothill zones, 1370-1620 m (4,500-5,300 ft.)
 PHENOLOGY: Flowering in June, mature fruit in July through September
 COMMENTS: The Glacier Park population can no longer be located and is presumed extirpated.

SCIENTIFIC NAME: *SALIX WOLFII* Bebb var. *WOLFII*
 COMMON NAME: Wolf's willow
 FAMILY: Salicaceae (Willow Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4T4/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Southwest MT and e. ID, south to CO and UT. The species as a whole occurs from OR to MT, south to NV, UT and CO. Peripheral
 MONTANA COUNTIES: Deer Lodge, Madison
 LAND OWNERSHIP: Beaverhead N.F., Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Range, Gravelly Range
 HABITAT: Streambanks and wet meadows in the montane and subalpine zones, 2450-2750 m (8,000-9,000 ft.)
 PHENOLOGY: Mature fruit in July and August

SCIENTIFIC NAME: *SAUSSUREA DENSA* (Hook.) Rydb.
 COMMON NAME: Dwarf sawwort
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: *S. nuda* Ledeb. var. *densa* (Hook.) Hulten
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern B.C., Alta., and nw. MT. Regional endemic.
 MONTANA COUNTIES: Lewis & Clark, Pondera, Teton
 LAND OWNERSHIP: Lewis & Clark N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Front Range
 HABITAT: Calcareous soil of talus slopes and rocky, open slopes in the alpine zone, 2275-2600 m (7,500-8,500 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: Populations are generally small.

SCIENTIFIC NAME: *SAUSSUREA WEBERI* Hulten
 COMMON NAME: Weber's sawwort
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S1
 USFWS STATUS: 3C
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: Southwest MT to CO. Disjunct.
 MONTANA COUNTIES: Deer Lodge, Granite
 LAND OWNERSHIP: Beaverhead N.F., Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Range
 HABITAT: Moist meadows in the alpine zone, ca 2830 m (9,300 ft.)
 PHENOLOGY: Flowering in July and early August
 COMMENTS: The only known Montana population of this species is adjacent to a heavily used pack and hiking trail.

SCIENTIFIC NAME: *SAXIFRAGA APETALA* Piper
 COMMON NAME: Tiny swamp saxifrage
 FAMILY: Saxifragaceae (Saxifrage Family)
 PERTINENT SYNONYMS: *S. integrifolia* Hook. var. *apetala* (Piper) Jones
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in WA
 GLOBAL DISTRIBUTION: Central WA and w. MT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Deer Lodge, Granite, Ravalli
 LAND OWNERSHIP: Beaverhead N.F., Bitterroot N.F., Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Range, Bitterroot Range, Pioneer Range
 HABITAT: Moist, open, often gravelly soil in meadows and on rock ledges in the montane, subalpine, and alpine zones, 1830-3080 m (6,000-10,100 ft.)
 PHENOLOGY: Flowering in mid-June through July, depending on elevation
 COMMENTS: This tiny plant could easily be overlooked or confused with other small species of *Saxifraga*.

SCIENTIFIC NAME: *SCIRPUS CYPERINUS* (L.) Kunth
 COMMON NAME: Wool grass
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *Scirpus atrocinctus* Fern.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Category 2 (threatened) in ID
 GLOBAL DISTRIBUTION: Newfoundland to FL, w. to MN, MO, and TX, and occasionally across s. Canada to se. B.C., and nw. MT, reputedly to WA. Peripheral.
 MONTANA COUNTIES: Lincoln, Sanders, reported for Missoula
 LAND OWNERSHIP: Kootenai N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Clark Fork River, Kootenai River drainages
 HABITAT: Wet low ground, 610-760 m (2,000-2,500 ft.)
 PHENOLOGY: Flowering and fruiting in July and August
 COMMENTS: This species is locally common in the extreme northwestern part of Montana. It has also been reported from near Missoula. It may be increasing its range in Montana.

SCIENTIFIC NAME: *SCIRPUS HETEROCHAETUS* Chase
 COMMON NAME: Slender bulrush
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southern Can., south to NY, TX and OR. Sparse.
 MONTANA COUNTIES: Sanders, Sheridan
 LAND OWNERSHIP: Flathead Indian Res., Medicine Lake N.W.R.
 PHYSIOGRAPHIC DISTRIBUTION: Salish Mtns., Northern Great Plains
 HABITAT: Marshes and edges of lakes and ponds in the valleys and foothills, 610-1065 m (2,000-3,500 ft.)
 PHENOLOGY: Mature fruit in August
 COMMENTS: This species is similar to the more common *S. acutus* and may be more common than records indicate.

SCIENTIFIC NAME: *SCIRPUS HUDSONIANUS* (Michx.) Fern.
 COMMON NAME: Hudson's Bay bulrush
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *Eriophorum hudsonianum* Michx., *E. alpinum* L.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to CN, Sask., and nw. MT. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier N.P.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Livingston Range.
 HABITAT: Wet, cold, boggy areas in the montane zone, 1160-1830 m (3,800-6,000 ft.)
 PHENOLOGY: Mature fruit in July through August
 COMMENTS: This species is very rare and local in Glacier Park. These populations are the only ones known in the western continental U.S.

SCIENTIFIC NAME: *SCIRPUS NEVADENSIS* Wats.
 COMMON NAME: Nevada bulrush
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta.
 GLOBAL DISTRIBUTION: Sask. to B.C., south to WY, UT, NV, and CA. Sparse.
 MONTANA COUNTIES: Lincoln, Sheridan
 LAND OWNERSHIP: State, Medicine Lake N.W.R. Kootenai N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains, Tobacco River drainage
 HABITAT: Wet, alkaline prairie and muddy shores of alkaline ponds and lakes in the valley zone and on the plains, 610-910 m (2,000-3,000 ft.)
 PHENOLOGY: Mature fruit in July
 COMMENTS: This species should be sought in north-central Montana.

SCIENTIFIC NAME: *SCIRPUS PUMILUS* Vahl
 COMMON NAME: Small clubrush
 FAMILY: Cyperaceae (Sedge Family)
 PERTINENT SYNONYMS: *Trichophorum pumilum* (Vahl) Schinz & Thell.
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal south to Alta., MT, WY and CO.
 MONTANA COUNTIES: Glacier, Teton
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Front Range Mtns.
 HABITAT: Calcareous fens in the foothills, 1400-1465 m (4,600-4,800 ft.)
 PHENOLOGY: Mature fruit in July
 COMMENTS: This species is locally abundant in its restricted habitat.
 COMMENTS: This species is currently known from only two sites in the state.

SCIENTIFIC NAME: *SCIRPUS SUBTERMINALIS* Torr.
 COMMON NAME: Water clubrush
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: AK to Newf., south to GA, MO, WY, UT, ID and OR, absent in the Great Plains. Sparse.
 MONTANA COUNTIES: Flathead, Lewis & Clark, Lincoln, Missoula
 LAND OWNERSHIP: Kootenai N.F., Lewis & Clark N.F., Lolo N.F., Glacier National Park, private
 PHYSIOGRAPHIC DISTRIBUTION: Upper Flathead River, Blackfoot River and Tobacco River drainages
 HABITAT: Shallow, fresh water and boggy margins of ponds, lakes, and sloughs in the valley, foothill, and montane zones, 880-1800 m (2,900-5,900 ft.)
 PHENOLOGY: Flowering from late June through July, mature fruit in August
 COMMENTS: The population from Glacier National Park has not been relocated.

SENSITIVE

SCIENTIFIC NAME: *SELAGINELLA SELAGINOIDES* (L.) Link
 COMMON NAME: Low spike-moss
 FAMILY: Selaginellaceae (Spike-moss Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Sask.
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to B.C., NV, WY, MI, and N.S. Sparse.
 MONTANA COUNTIES: Beaverhead, Deer Lodge, Granite
 LAND OWNERSHIP: Beaverhead N.F., Deer Lodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Mtns.
 HABITAT: Moss-covered soil of meadows and rock outcrops in the subalpine zone, 2315-2560 m (7,600-8,400 ft)
 PHENOLOGY: Mature sporophylls in late July

SCIENTIFIC NAME: *SENECIO AMPLECTENS* Gray
 COMMON NAME: Clasping groundsel
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: MT south to NV and NM. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Talus slopes in the alpine zone, 3050 m (10,000 ft)
 PHENOLOGY: Flowering in early August
 COMMENTS: There is only one known location in Montana. Our plants are var. holmii (Greene) Harr.

SCIENTIFIC NAME: *SENECIO DEBILIS* Nutt.
 COMMON NAME: Weak butterweed, Rocky Mountain ragwort
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central ID and sw. MT, south to WY and CO. Peripheral.
 MONTANA COUNTIES: Beaverhead, Lewis & Clark, Madison
 LAND OWNERSHIP: State; BLM, Butte District; Red Rock Lakes N.W.R.; private
 PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River drainage, Ruby River drainage, Helena Valley
 HABITAT: Moist, alkaline meadows in the valley and foothill zones, 1250-2070 m (4,100-6,800 ft.)
 PHENOLOGY: Flowering in late June and July
 COMMENTS: Most known populations of this species in Montana are small. The Lewis & Clark Co. population has not been relocated since it was first collected 90 years ago.

SCIENTIFIC NAME: *SENECIO EREMOPHILUS* Richardson
 COMMON NAME: Desert groundsel, dryland ragwort
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND
 GLOBAL DISTRIBUTION: B.C. to Ont., south to AZ, NM and NE. Sparse.
 MONTANA COUNTIES: Hill, Park
 LAND OWNERSHIP: City of Havre, private (?)
 PHYSIOGRAPHIC DISTRIBUTION: Bear's Paw Mtns., Yellowstone River drainage
 HABITAT: Moist streambanks and riparian forests in the valleys and montane zone, ca. 1250 m (4,100 ft)
 PHENOLOGY: Flowering late June.
 COMMENTS: The Park Co. site cannot be relocated. The Bear's Paw Mtns. population is very small. Our plants are var. eremophilus.

SCIENTIFIC NAME: *SHOSHONEA PULVINATA* Evert & Constance
 COMMON NAME: Shoshonea
 FAMILY: Apiaceae (Carrot Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G2G3/S1
 USFWS STATUS: C2
 USFS STATUS: Sensitive list
 STATUS IN OTHER STATES: Endangered (S2) in WY
 GLOBAL DISTRIBUTION: Southcentral MT, nw. WY. Regional endemic.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; Custer N.F.; private
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns., Pryor Mtns.
 HABITAT: Open, windswept limestone outcrops, ridgetops, and canyon rims, in thin rocky soils, 2070-2380 m (6,800-7,800 ft.)
 PHENOLOGY: Flowering late June through July
 COMMENTS: This taxon was described as both a new genus and species by Evert (1982). It is more frequent within the Wyoming portion of its range, and barely extends into south-central Montana.

SCIENTIFIC NAME: *SIDALCEA OREGANA* (Nutt.) Gray
 COMMON NAME: Oregon Checker-mallow
 FAMILY: Malvaceae (Mallow Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to CA, east to MT, WY, and UT. Peripheral.
 MONTANA COUNTIES: Gallatin, Lake
 LAND OWNERSHIP: Flathead Indian Reservation(?), private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River, Gallatin River drainages
 HABITAT: Grasslands and meadows in the valley zone, ca. 915 m (3,000 ft)
 PHENOLOGY: Flowering in July
 COMMENTS: This plant is locally common in the Mission Valley.

SCIENTIFIC NAME: *SPHAERALCEA MUMROANA* (Dougl.) Spach
 COMMON NAME: White-stemmed globemallow
 FAMILY: Malvaceae (Mallow Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to sw. MT, south to WY, UT, NV, and CA. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District; private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River drainage
 HABITAT: Open soil in sagebrush-grassland in the valley and foothill zones, ca. 1980 m (6,500 ft.)
 PHENOLOGY: Flowering in late June and early July
 COMMENTS: Known populations of this species in Montana are small.

SCIENTIFIC NAME: *SPIRAEA X PYRAMIDATA* Greene
 COMMON NAME: Pyramidal spiraea
 FAMILY: Rosaceae (Rose Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: B.C. to OR, east to central ID and nw. MT. Peripheral.
 MONTANA COUNTIES: Lincoln, Missoula, Sanders
 LAND OWNERSHIP: Bitterroot N.F., Kootenai N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River and Kootenai River drainages
 HABITAT: Moist forests and streambanks in the valleys and montane zone, 700-1370 m (2,300-4,500 ft.)
 PHENOLOGY: Flowering in July
 COMMENTS: This plant is a hybrid between *S. betulifolia* and *S. douglasii*.

SCIENTIFIC NAME: *SPOROBOLUS ASPER* (Michx.) Kunth
 COMMON NAME: Rough dropseed
 FAMILY: Poaceae (Grass Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA and OR, east to VT and FL. Sparse.
 MONTANA COUNTIES: Carter, reported for Powder River
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Open forest and grasslands on the plains, ca. 915-1065 (3,000-3,500 ft.)
 PHENOLOGY: Mature fruit in August
 COMMENTS: The only collection of this species from Montana is 60 years old.

SCIENTIFIC NAME: *SPOROBOLUS NEGLECTUS* Nash
 COMMON NAME: Small dropseed
 FAMILY: Poaceae (Grass Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: MT and AZ, east to Que. and much of e. U.S. Sparse.
 MONTANA COUNTIES: Gallatin, Wheatland
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Gallatin River and Musselshell River drainages
 HABITAT: Grasslands in the valleys, 1280-1465 m (4,200-4,800 ft.)
 PHENOLOGY: Mature fruit in August
 COMMENTS: Two of three collections are from disturbed habitats.

SCIENTIFIC NAME: *STANLEYA TOMENTOSA* Parry
 COMMON NAME: Woolly prince's-plume
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT and nw. WY. Regional endemic.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area
 HABITAT: Open, gravelly soil of slopes and flats in sagebrush grassland, desert shrubland, and juniper woodland in the valley and foothill zones, 1280-1650 m (4,200-5,400 ft.)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: Known populations of this species in Montana are small.

SCIENTIFIC NAME: *STELLARIA CRASSIFOLIA* Ehrh.
 COMMON NAME: Fleshy stitchwort, thick-leaved chickweed
 FAMILY: Caryophyllaceae (Pink Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal, south in w. N. America to MT, ID and CO. Sparse.
 MONTANA COUNTIES: Beaverhead, Carbon
 LAND OWNERSHIP: Custer N.F., Red Rock Lakes N.W.R.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns., Centennial Valley
 HABITAT: Moist or wet meadows in the montane to alpine zones, 2010-3050 m (6,600-10,000 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This species is difficult to distinguish from other, more common species of *Stellaria*.

SENSITIVE

SCIENTIFIC NAME: *STEPHANOMERIA SPINOSA* (Nutt.) Tomb
 COMMON NAME: Spiny skeletonweed
 FAMILY: Asteraceae (Sunflower Family)
 Pertinent synonyms: *Lygodesmia spinosa* Nutt.
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: B.C. to MT, south to CA and AZ.
 Peripheral.
 MONTANA COUNTIES: Madison
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Madison River drainage
 HABITAT: Dry grasslands in the valleys and montane
 zone, 1465-1890 m (4,800-6,200 ft.)
 PHENOLOGY: Flowering in July and August

SCIENTIFIC NAME: *STREPTANTHELLA LONGIROSTRIS* (Wats.)
 Rydb.

COMMON NAME: Beaked streptanthella
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to Baja Cal., east to s. MT
 and NM. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn
 Canyon area
 HABITAT: Open, often sandy soil in sagebrush
 grassland, desert shrubland, and juniper woodland in
 the valley and foothill zones, 1370-1650 m
 (4,500-5,400 ft.)
 PHENOLOGY: Flowering in May and early June, mature
 fruit in June
 COMMENTS: There are two known Montana populations,
 but the species is weedy in the main part of its
 range.

SCIENTIFIC NAME: *SUCKLEYA SUCKLEYANA* (Torr.) Rydb.
 COMMON NAME: Poison suckleya
 FAMILY: Chenopodiaceae (Goosefoot Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Alta. and Sask., south to TX and
 NM. Sparse.
 MONTANA COUNTIES: Roosevelt, Valley
 LAND OWNERSHIP: private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Drying mud along ponds and streams and in
 disturbed, often alkaline soil on the plains, ca.
 640 m (2,100 ft)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This species may be more common than
 records indicate.

SCIENTIFIC NAME: *SULLIVANTIA HAPPEMANNII* (Coul. &
 Fish.) Coul.
 COMMON NAME: Wyoming sullivania
 FAMILY: Saxifragaceae (Saxifrage Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: 3C
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northeast WY and adjacent MT.
 Regional endemic.
 MONTANA COUNTIES: Big Horn, Carbon
 LAND OWNERSHIP: Big Horn Canyon N.R.A., Crow Indian
 Res.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn
 Canyon area
 HABITAT: Wet, open, calcareous soil, usually on
 cliffs or steep banks in the valley zone,
 1130-1430 m (3,700-4,500 ft.)
 PHENOLOGY: Flowering in June and July
 COMMENTS: Some populations may be threatened by
 livestock grazing.

SCIENTIFIC NAME: *SYNTHYRIS MISSURICA* (Raf.) Pennell
 COMMON NAME: Mountain kittentails
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA to w. MT, south to
 ID, OR and n. CA. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Open forests and rocky ridges in the montane
 and subalpine zones, 1950-2440 m (6,400-8,000 ft)
 PHENOLOGY: Flowering late May to early July

SCIENTIFIC NAME: *TARAXACUM ERIOPHORUM* Rydb.
 COMMON NAME: Rocky Mountain dandelion
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: AK south to WA and WY. Sparse.
 MONTANA COUNTIES: Beaverhead, Deer Lodge, Madison
 LAND OWNERSHIP: Beaverhead N.F.; BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Mtns.,
 Anaconda Mtns.(?)
 HABITAT: Grasslands and meadows in the montane to
 alpine zones, 1830-3110 m (6,000-10,200 ft)
 PHENOLOGY: Flowering in June and July
 COMMENTS: Collections from Deer Lodge and Madison
 cos. are at least 80 years old.

SCIENTIFIC NAME: *THALICTRUM ALPINUM* L.
 COMMON NAME: Alpine meadowrue
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Endangered in OR
 GLOBAL DISTRIBUTION: Circumpolar, south in N. America
 to Que., CO, NV, and CA. Sparse.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: Beaverhead N.F., State, private
 PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River
 drainage
 HABITAT: On hummocks, often beneath low shrubs in
 moist, alkaline meadows in the montane zone,
 1875-2125 m (6,500-7,000 ft.)
 PHENOLOGY: Flowering in late May and June
 COMMENTS: Known Montana populations are small.

SCIENTIFIC NAME: *THELYPODIUM PANICULATUM* A. Nels.
 COMMON NAME: Northwestern thelypody
 FAMILY: Brassicaceae (Mustard Family)
 PERTINENT SYNONYMS: *T. sagittatum* (Nutt.) Endl. var.
crassicaepum Pays.
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WY and sw. MT. Regional
 endemic.
 MONTANA COUNTIES: Beaverhead, reported for Madison
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley
 HABITAT: Wet, boggy meadows in the montane zone, ca.
 2040 m (6,700 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This species is very similar to *T.*
sagittatum.

SCIENTIFIC NAME: *THELYPODIUM SAGITTATUM* (Nutt.) Endl.
 COMMON NAME: Slender thelypody
 FAMILY: Brassicaceae (Mustard Family)
 PERTINENT SYNONYMS: *Thelypodopsis sagittata* (Nutt.)
 Schulz
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southeast WA to CA, east to MT
 and WY. Peripheral.
 MONTANA COUNTIES: Beaverhead, Gallatin, reported for
 Madison
 LAND OWNERSHIP: Red Rock Lakes N.W.R., private
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Valley, Upper
 Madison River drainage
 HABITAT: Moist, alkaline meadows in the valley and
 foothill zones, ca. 2010 m (6,600 ft.)
 PHENOLOGY: Flowering in June and July
 COMMENTS: Most known Montana populations of this
 species are small.

SCIENTIFIC NAME: *THLASPI PARVIFLORUM* A. Nels.
 COMMON NAME: Small-flowered pennycress
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G3/S1
 USFWS STATUS: None
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Central ID, nw. WY, and sw. MT.
 Regional endemic.
 MONTANA COUNTIES: Beaverhead, Madison, Park
 LAND OWNERSHIP: Beaverhead N.F., Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns., Gravelly
 Range, Snowcrest Range, Beaverhead River drainage
 HABITAT: Moist to dry meadows and limestone cliffs in
 the montane to alpine zone, 2280-3050 m
 (7,500-10,000 ft.)
 PHENOLOGY: Flowering in late June and early July
 COMMENTS: Recently discovered populations are small.

SCIENTIFIC NAME: *TOFIELDIA PUSILLA* (Michx.) Pers.
 COMMON NAME: Small false asphodel
 FAMILY: Liliaceae (Lily family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumpolar, south in N. America
 to Que., Ont., Man., nw. MT, and B.C. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Moist tundra in the alpine zone, 2190-2380 m
 (7,200-7,800 ft.)
 PHENOLOGY: Flowering in July and early August
 COMMENTS: There are several small populations of this
 species in the center of Glacier Park.

SCIENTIFIC NAME: *TOWNSENDIA FLORIFERA* (Hook.) Gray
 COMMON NAME: Showy townsendia
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: Central WA to NV, east to sw. MT
 and nw. WY. Peripheral.
 MONTANA COUNTIES: Beaverhead
 LAND OWNERSHIP: BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River drainage
 HABITAT: Open soil on flats and eroding slopes in
 sagebrush-grassland in the foothill zone, 1980 m
 (6,500 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This species is known in Montana from only
 two small populations.

SCIENTIFIC NAME: *TOWNSENDIA INCANA* Nutt.
 COMMON NAME: Hoary townsendia
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT to NV, south to AZ and NM. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area
 HABITAT: Open, stony, limestone-derived soil of open slopes and rock crevices in sagebrush grassland and juniper woodland in the valley and foothill zones, 1340-1650 m (4,400-5,400 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This species is locally common in the Big Horn Canyon area.

SCIENTIFIC NAME: *TOWNSENDIA SPATHULATA* Nutt.
 COMMON NAME: Sword townsendia
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G3/S2
 USFWS STATUS: 3C
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central WY and sw. and sc. MT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Broadwater, Carbon
 LAND OWNERSHIP: BLM, Butte District, Miles City District; Big Horn Canyon N.R.A.; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area, Beartooth Mtns., Beaverhead River drainage, Limestone Hills
 HABITAT: Open, rocky, limestone-derived soils of slopes and windswept ridgetops in the valley and foothill zones, 1370-1950 m (4,500-6,400 ft.)
 PHENOLOGY: Flowering in May and early June
 COMMENTS: Populations of this species are small and local in Beaverhead and Broadwater cos. It is locally common in the Big Horn Canyon area.

SCIENTIFIC NAME: *TRIFOLIUM CYATHIFERUM* Lindl.
 COMMON NAME: Cup clover
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to CA, east to ID and W. MT. Peripheral.
 MONTANA COUNTIES: Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Clark Fork River drainage
 HABITAT: Wet meadows and seep areas in the montane zone, ca. 1525 m (5,000 ft)
 PHENOLOGY: Flowering in June
 COMMENTS: The Missoula Co. collection is from a disturbed railroad right-of-way.

SCIENTIFIC NAME: *TRIFOLIUM ERIOCEPHALUM* Nutt.
 COMMON NAME: Woolly-head clover
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to CA, east to W. MT, ID, UT and NV. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River drainage
 HABITAT: Drier meadows and woods at lower elevations, 1460-1585 m (4,800-5,200 ft.)
 PHENOLOGY: Flowering in May and June
 COMMENTS: Our plants are var. piperi Martin.

SCIENTIFIC NAME: *TRIFOLIUM GYMNOCARPON* Nutt.
 COMMON NAME: Hollyleaf clover
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: Ne. OR to ne. CA and n. AZ, e. to MT and NM. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Open woods and slopes, usually in dry soil of sagebrush desert to ponderosa pine forest, 1525-1645 m (5,000-5,400 ft.)
 PHENOLOGY: Flowering from May to July

SCIENTIFIC NAME: *TRIFOLIUM LATIFOLIUM* (Hook.) Greene
 COMMON NAME: Twin clover
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northeast OR, n. ID and nw. MT. Regional endemic.
 MONTANA COUNTIES: Sanders, Missoula(?)
 LAND OWNERSHIP: Kootenai N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Lower Clark Fork River drainage
 HABITAT: Open forest and meadows in the montane zone, 730 m (2,400 ft)
 PHENOLOGY: Flowering in June
 COMMENTS: Reported for Missoula County by Hitchcock and Cronquist (1973). Most Montana populations occur in disturbed habitats.

SENSITIVE

SCIENTIFIC NAME: *TRIFOLIUM MICROCEPHALUM* Pursh
 COMMON NAME: Wooly clover, small-head clover
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: B.C. to Baja Cal., east to W.
 MT, NV, and AZ. Peripheral.
 MONTANA COUNTIES: Ravalli, Missoula
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Clark Fork River and
 Bitterroot River drainages
 HABITAT: Moist meadows to dry hillsides in the valley
 and foothills zones, 915-975 m (3,000-3,200 ft)
 PHENOLOGY: Flowering in June and early July

SCIENTIFIC NAME: *TRIGLOCHIN CONCINNUM* Davy
 COMMON NAME: Graceful arrowgrass
 FAMILY: Juncaginaceae (Arrowgrass Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: B.C. to Baja Ca., east to ND,
 CO, and AZ; S. America. Sparse.
 MONTANA COUNTIES: Madison, Teton
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Ruby River and Teton
 River drainages
 HABITAT: Wet, open, alkaline soil around ponds and
 springs in the valley zone, 1280-1370 m
 (4,300-4,500 ft.)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: Our plants are var. *debile* (Jones) Howell.
 They are difficult to distinguish from the more
 common *T. maritima*.

SCIENTIFIC NAME: *UTRICULARIA INTERMEDIA* Hayne
 COMMON NAME: Flat-leaved bladderwort
 FAMILY: Lentibulariaceae (Bladderwort Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND, review list
 in OR, sensitive in WA
 GLOBAL DISTRIBUTION: Circumboreal, south in N.
 America to CA, nw. MT, IA, and DE. Peripheral.
 MONTANA COUNTIES: Flathead
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Wet, organic soil of Sphagnum bogs in the
 montane zone, 1280 m (4,200 ft.)
 PHENOLOGY: This species has not been observed
 flowering in Montana
 COMMENTS: There is only one location for this species
 in Montana and the Northern Rocky Mountains.

SCIENTIFIC NAME: *VERATRUM CALIFORNICUM* Durand
 COMMON NAME: California false-hellebore
 FAMILY: Liliaceae (Lily Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to CA, east to MT, CO and
 Mex. Peripheral.
 MONTANA COUNTIES: Granite, Gallatin, Lewis & Clark,
 reported for Meagher
 LAND OWNERSHIP: Deerlodge N.F.; Lewis & Clark N.F.;
 Gallatin N.F.; BLM, Butte District
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda Mtns., Bridger
 Mtns., Castle Mtns.
 HABITAT: Wet meadows and streambanks in the montane
 and subalpine zones, 1830-2590 m (6,000-8,500 ft)
 PHENOLOGY: Flowering in July and August
 COMMENTS: Only the Granite Co. population has been
 relocated in the recent past.

SCIENTIFIC NAME: *VIBURNUM LENTAGO* L.
 COMMON NAME: Nannyberry
 FAMILY: Caprifoliaceae (Honeysuckle Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Sask.
 GLOBAL DISTRIBUTION: Que. to Sask., south to GA, MO,
 NE, CO, and WY. Peripheral.
 MONTANA COUNTIES: Big Horn, Roosevelt
 LAND OWNERSHIP: Crow Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Openings in riparian forests
 PHENOLOGY: Flowering in June
 COMMENTS: Both known Montana populations are very
 small.

SCIENTIFIC NAME: *VIOLA RENIFOLIA* Gray
 COMMON NAME: Kidney-leaved violet
 FAMILY: Violaceae (Violet Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Rare in WY, undetermined
 status in SD, possibly extinct in WA
 GLOBAL DISTRIBUTION: B.C. and WA to e. U.S., south in
 Rocky Mtns. to CO. Sparse.
 MONTANA COUNTIES: Flathead, Glacier, Missoula
 LAND OWNERSHIP: Flathead N.F., Glacier National Park,
 private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Range, Lewis
 range, Swan Range, Whitefish Range
 HABITAT: Swampy or boggy soil in forests in the
 montane zone, 900-1525 m (3,000-5,000 ft.)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: Some populations of this species are
 threatened by timber harvest activity.

SENSITIVE

SCIENTIFIC NAME: **WOLFFIA COLUMBIANA** Karst.
 COMMON NAME: Columbia water-meal
 FAMILY: Lemnaceae (Duckweed Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in ND
 GLOBAL DISTRIBUTION: Throughout most of N. America, south to S. America. Sparse.
 MONTANA COUNTIES: Flathead, Lake, Missoula
 LAND OWNERSHIP: Flathead Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River and Clark Fork River drainages
 HABITAT: Fresh water of ponds and sloughs in the valley zone, 880-950 m (2,900-3,100 ft.)
 PHENOLOGY: This species has not been observed blooming in Montana
 COMMENTS: This species is locally common in the potholes south of Flathead Lake.

SCIENTIFIC NAME: **WYETHIA SCABRA** Hook.
 COMMON NAME: Rough mule's-ears
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: None
 GLOBAL DISTRIBUTION: South-central MT south to CO, UT and AZ. Peripheral.
 MONTANA COUNTIES: Big Horn, Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area
 HABITAT: Open, often sandy soil of desert shrubland and juniper woodland in the valley zone, 1070-1370 m (3,500-4,500 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: Our plants are var. scabra. Most known populations of this species in Montana are small.

SCIENTIFIC NAME: **XYLORHIZA GLABRIUSCULA** Nutt.
 COMMON NAME: Smooth woody aster
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: Machaeranthera glabriuscula (Nutt.) Cronq. & Keck
 MONTANA STATUS: Sensitive
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Uncommon in SD
 GLOBAL DISTRIBUTION: South-central MT and w. SD, south to CO and UT. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area
 HABITAT: Barren, often heavy, clay soil of slopes and outcrops in sagebrush grassland and desert shrubland in the valley zone, 1160-1370 m (3,800-4,500 ft.)
 PHENOLOGY: Flowering in late May and June

POSSIBLY EXTIRPATED

SCIENTIFIC NAME: *AMORPHA CANESCENS* Pursh
 COMMON NAME: Lead plant
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Possibly extirpated
 GLOBAL and STATE RANKS (TNC): G5/SX
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Great Plains, IN to TX, west to
 Man., WY, and NM. Peripheral.
 MONTANA COUNTIES: Carter
 LAND OWNERSHIP: Custer N.F.; BLM, Miles City
 District(?); private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains,
 Little Missouri River drainage
 HABITAT: Grasslands and open woodlands on the plains
 PHENOLOGY: Flowering in late June and early July
 COMMENTS: Recent attempts to relocate the Carter Co.
 population have failed. There is a 60 year-old
 collection from Custer N.F., but there is no
 location information.

SCIENTIFIC NAME: *CEANOTHUS HERBACEUS* Raf.
 COMMON NAME: New Jersey tea
 FAMILY: Rhamnaceae (Buckthorn Family)
 PERTINENT SYNONYMS: *C. ovatus* Desf. var. *pubescens*
 Wats.
 MONTANA STATUS: Possibly Extirpated
 GLOBAL and STATE RANKS (TNC): G5/SX
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: Que. to Man. and e. MT, south to
 GA, TX, and CO. Peripheral.
 MONTANA COUNTIES: Powder River
 LAND OWNERSHIP: Custer N.F.(?), private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Open pine forests and moist places on the
 plains
 PHENOLOGY: Flowering in June
 COMMENTS: This species has been collected once in
 Montana, 40 years ago. Recent searching failed to
 relocate the site. Our plants are var. *pubescens*
 (T. & G.) Shinnars.

WATCH LIST

SCIENTIFIC NAME: **ASTRAGALUS ARETIODES** (Jones)
Barneby

COMMON NAME: Sweetwater milkvetch
FAMILY: Fabaceae (Pea Family)
PERTINENT SYNONYMS: A. sericoleucus Gray var.
aretioides Jones
MONTANA STATUS: Watch List
GLOBAL AND STATE RANKS (TNC): G4/S2
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: Along the east foothills of the
Rocky Mountains in WY, extending n. into Big Horn
and Carbon cos., WY. Regional endemic.
MONTANA COUNTIES: Big Horn, Carbon
LAND OWNERSHIP: Custer N.F.
PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.
HABITAT: Barren, windswept bluffs and eroded areas,
on sandstone or limestone, 2040-2380 m
(6,700-7,800 ft.).
PHENOLOGY: June-August.

SCIENTIFIC NAME: **ASTRAGALUS BARRII** Barneby
COMMON NAME: Barr's milkvetch
FAMILY: Fabaceae (Pea Family)
MONTANA STATUS: Watch List
GLOBAL AND STATE RANKS (TNC): G3/S2
USFWS STATUS: C2
USFS STATUS: Sensitive
STATUS IN OTHER STATES: Rare in SD
GLOBAL DISTRIBUTION: Southwestern SD, ne. WY, and se.
MT. Regional endemic.
MONTANA COUNTIES: Big Horn, Powder River, Rosebud;
historically known in Carter
LAND OWNERSHIP: Custer N.F.; BLM, Miles City
District, private
PHYSIOGRAPHIC DISTRIBUTION: Great Plains
HABITAT: Gullied knolls, buttes and barren hilltops,
usually on limestone or sandstone, 945-1160 m
(3,100-3,800 ft.).
PHENOLOGY: Flowering in May, fruiting late May-June
COMMENTS: This species is locally common at some of
its locations in Montana.

SCIENTIFIC NAME: **ASTRAGALUS LENTIGINOSUS** Dougl.
COMMON NAME: Freckled milkvetch, Sodaville milkvetch
FAMILY: Fabaceae (Pea Family)
MONTANA STATUS: Watch List
GLOBAL AND STATE RANKS (TNC): G5/S2
USFWS STATUS: None
USFS STATUS: None
GLOBAL DISTRIBUTION: Eastern WA, s. ID, and sw. MT,
south to CA, NV, and AZ. Peripheral.
MONTANA COUNTIES: Beaverhead
LAND OWNERSHIP: BLM, Butte District; Beaverhead N.F.;
private
PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River
drainage
HABITAT: Sagebrush grassland in the valley and
foothill zones, 1680-2160 m (5,500-7,100 ft.).
PHENOLOGY: Flowering in June and July, mature fruit
in July and August
COMMENTS: Most known Montana populations of this
species are small. Our plants are var. salinus
(Howell) Barneby.

SCIENTIFIC NAME: **ASTRAGALUS TERMINALIS** Wats.
COMMON NAME: Railhead milkvetch
FAMILY: Fabaceae (Pea Family)
MONTANA STATUS: Watch List
GLOBAL AND STATE RANKS (TNC): G3G4/S2
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Rare in WY
GLOBAL DISTRIBUTION: East-central ID and sw. MT,
south to nw. WY. Regional endemic.
MONTANA COUNTIES: Beaverhead, Madison
LAND OWNERSHIP: BLM, Butte District; private(?)
PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River and
Madison River drainages
HABITAT: Open soil of eroding slopes and sagebrush
grassland in the valley, foothills, montane, and
alpine zones, 1520-2930 m (5,000-9,600 ft.).
PHENOLOGY: Flowering in June through mid-July
COMMENTS: At higher elevations, this species is
smaller in stature with a more compact
inflorescence.

SCIENTIFIC NAME: **BIDENS BECKII** Torr.
COMMON NAME: Water marigold
FAMILY: Asteraceae (Sunflower Family)
MONTANA STATUS: Watch List
GLOBAL AND STATE RANKS (TNC): G5/S2
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Rare in B.C., rare in Sask.
GLOBAL DISTRIBUTION: Southern B.C. to Que. and N.S.,
south to OR, nw. MT, Man., MO, and N.J., perhaps
introduced in B.C., WA, OR, and MT. Peripheral.
MONTANA COUNTIES: Flathead, Lake, Missoula
LAND OWNERSHIP: Lolo N.F., private
PHYSIOGRAPHIC DISTRIBUTION: Clearwater River, Swan
River and Flathead River drainages
HABITAT: Quiet water of rivers and lakes in the
valley zone, 880-1220 m (2,900-4,000 ft.).
PHENOLOGY: Flowering in late August and September
COMMENTS: This species may be adventive in Montana.

SCIENTIFIC NAME: **BOTRYCHIDIUM MONTANUM** Wagner
COMMON NAME: Mountain moonwort
FAMILY: Ophioglossaceae (Grape Fern Family)
MONTANA STATUS: Watch List
GLOBAL AND STATE RANKS (TNC): G2G3/S2
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Review list in ID, endangered
in OR, sensitive in WA
GLOBAL DISTRIBUTION: B.C. to OR, east to MT and ID.
Peripheral.
MONTANA COUNTIES: Flathead, Lake
LAND OWNERSHIP: Glacier N.P., Flathead N.F., State
PHYSIOGRAPHIC DISTRIBUTION: Glacier National Park, n.
Mission Range, Swan Valley
HABITAT: Coniferous forests, meadows, and along
grassy trail edges, 900-1160 m (2,960-3,810 ft.).
PHENOLOGY: Mature sporophytes in July-August
COMMENTS: This small plant is easily overlooked and
may be more common than records indicate.

SCIENTIFIC NAME: *BRASENIA SCHREBERI* Gmel.
 COMMON NAME: Water-shield, water-target
 FAMILY: Nymphaeaceae (Water-lily Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Most of North America, widespread in other parts of the world except Europe. Sparse.
 MONTANA COUNTIES: Flathead, Lincoln, Missoula, Ravalli
 LAND OWNERSHIP: Kootenai N.F., Lolo N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River, Clearwater River, Kootenai River and Bitterroot River drainages
 HABITAT: Shallow water of lakes, sloughs, and slow-moving rivers in the valley zone, 910-1220 m (3,000-4,000 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This species may be increasing its range in Montana.

SCIENTIFIC NAME: *CAREX NEUROPHORA* Mack.
 COMMON NAME: Alpine nerved sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA and OR, east to MT, WY, and CO. Sparse.
 MONTANA COUNTIES: Deer Lodge, Granite, Missoula, Park, Ravalli, Stillwater
 LAND OWNERSHIP: Bitterroot N.F., Deerlodge N.F., Gallatin N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Anaconda, Absaroka, Bitterroot, and Sapphire ranges
 HABITAT: Moist meadows and stream banks in the montane and subalpine zones, 1400-2440 m (4,600-8,000 ft)
 PHENOLOGY: Mature fruit in July and August depending on elevation
 COMMENTS: This species may be more common than records indicate.

SCIENTIFIC NAME: *CASTILLEJA RUSTICA* Piper
 COMMON NAME: Rustic paintbrush
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G3G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwestern MT, c. ID, and ne. OR. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Madison; reported for Gallatin
 LAND OWNERSHIP: Beaverhead N.F., Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Centennial Mtns., Gravely Range, Madison Range, Tendency Mtns.
 HABITAT: Dry soils in sagebrush areas, 2100-2775 m (6,880-9,100 ft.)
 PHENOLOGY: Flowering June-August
 COMMENTS: This species was last collected in Madison County in 1947.

SCIENTIFIC NAME: *DOWNINGIA LAETA* Greene
 COMMON NAME: Great Basin downingia
 FAMILY: Campanulaceae (Bellflower Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in Sask., review list in OR
 GLOBAL DISTRIBUTION: OR and CA, east to Sask., MT, UT, and WY. Sparse.
 MONTANA COUNTIES: Beaverhead, Madison, Teton
 LAND OWNERSHIP: Red Rock Lakes NWR, private
 PHYSIOGRAPHIC DISTRIBUTION: Mountain valleys east of the Continental Divide, Northern Great Plains
 HABITAT: Shallow water and drying mud around ponds and lakes in the valley and foothills zones and on the plains, 1400-1980 m (4,600-6,500 ft)
 PHENOLOGY: Flowering in June and early July
 COMMENTS: This inconspicuous and ephemeral plant may be more common than records indicate.

SCIENTIFIC NAME: *DRABA DENSIFOLIA* Nutt.
 COMMON NAME: Nuttall's draba
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: B.C. and Alta., south to CA, UT, and WY. Sparse.
 MONTANA COUNTIES: Glacier, Jefferson, Lewis and Clark
 LAND OWNERSHIP: Glacier National Park, Deerlodge N.F., Helena N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Big Belt Mtns., Continental Divide near Helena and Butte
 HABITAT: Gravelly, open soil of rocky slopes and exposed ridges in the montane to alpine zones, 1705-2680 m (5,600-8,800 ft)
 PHENOLOGY: Flowering from May to July, depending on elevation
 COMMENTS: This species is easily confused with other members of the genus. It may be more common than records indicate.

SCIENTIFIC NAME: *DROSER A ANGLICA* Huds.
 COMMON NAME: English sundew, great sundew
 FAMILY: Droseraceae (Sundew Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: AK s. to CA and NV, e. to ID, MT, the Great Lakes region, and e. Canada; Eurasia. Sparse.
 MONTANA COUNTIES: Flathead, Gallatin, Granite, Lewis & Clark, Lincoln, Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., Deerlodge N.F., Flathead N.F., Gallatin N.F., Helena N.F., Kootenai N.F.; Glacier N.P.; private.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range, Blackfoot River drainage, Flathead River drainage, Lewis Range, Madison Range, Mission Range, Swan Range, Sapphire Range
 HABITAT: In swamps and bogs, 1180-2745 m (3,880-9,000 ft.)
 PHENOLOGY: Flowering late June-July, fruiting July-August
 COMMENTS: Although widespread in western Montana, this carnivorous plant species is restricted to pristine bogs.

WATCH LIST

SCIENTIFIC NAME: *ELATINE CALIFORNICA* Gray
 COMMON NAME: California waterwort
 FAMILY: Elatinaceae (Waterwort Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to w. MT, south to CA and AZ.
 Peripheral.
 MONTANA COUNTIES: Cascade, Lake, Missoula, Sanders
 LAND OWNERSHIP: Flathead Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Clark Fork River and
 Flathead River drainages
 HABITAT: Muddy soil at the margins of ponds or rivers
 in the valley zone, 910-1220 m (3,000-4,000 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This inconspicuous plant may be more common
 than records indicate.

SCIENTIFIC NAME: *EPILOBIUM SUFFRUTICOSUM* Nutt.
 COMMON NAME: Shrubby willow-herb
 FAMILY: Onagraceae (Evening-primrose Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central ID, w. MT, and nw. WY.
 Regional endemic.
 MONTANA COUNTIES: Flathead, Missoula, Park, Sanders
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River,
 Blackfoot River, Clark Fork River, Flathead River,
 and Beartooth Mtns.
 HABITAT: Gravelly river banks and open slopes in the
 valley to montane zones, 762-2440 m
 (2,500-8,000 ft.)
 PHENOLOGY: Flowering in June through September
 COMMENTS: Although this species is locally common in
 some areas, it may be threatened by hydroelectric
 development.

SCIENTIFIC NAME: *ERIGERON ALLOCOTUS* Blake
 COMMON NAME: Big Horn fleabane
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G3/S2
 USFWS STATUS: 3C
 USFS STATUS: None
 GLOBAL DISTRIBUTION: North-central WY and adjacent
 MT. Regional endemic.
 MONTANA COUNTIES: Big Horn, Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn
 Canyon N.R.A.; Crow Indian Res.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn
 Canyon area
 HABITAT: Open, stony, limestone-derived soil on
 cliffs and windswept ridges in the valley and
 foothill zones, 1340-1710 m (4,400-5,600 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This species is locally common in the Big
 Horn Canyon area.

SCIENTIFIC NAME: *ERIGERON GRACILIS* Rydb.
 COMMON NAME: Slender fleabane
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southwest MT, w. WY and ec. ID.
 Regional endemic.
 MONTANA COUNTIES: Beaverhead, Park, Silver Bow,
 Sweetgrass
 LAND OWNERSHIP: Beaverhead N.F., Deerlodge N.F.,
 Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead, Highland,
 Crazy and Absaroka ranges
 HABITAT: Meadows, rocky slopes and talus in the
 subalpine and alpine zones, 2225-3020 m
 (7,300-9,900 ft.)
 PHENOLOGY: Flowering in July and August

SCIENTIFIC NAME: *GAULTHERIA OVATIFOLIA* Gray
 COMMON NAME: Slender wintergreen
 FAMILY: Ericaceae (Heath Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: B.C. to CA, east to ID and MT.
 Peripheral.
 MONTANA COUNTIES: Flathead, Mineral, Lincoln, Sanders
 LAND OWNERSHIP: Glacier National Park (?), Flathead
 N.F., Kootenai N.F., Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lower Clark Fork,
 Flathead, and Kootenai river drainages.
 HABITAT: Mesic coniferous forests in the montane
 zone, 790-1675 m (2,600-5,500 ft)
 PHENOLOGY: Mature fruit in August
 COMMENTS: It is not known how this species responds
 to timber harvest activities.

SCIENTIFIC NAME: *GENTIANA PROSTRATA* Haenke
 COMMON NAME: Moss gentian
 FAMILY: Gentianaceae (Gentian Family)
 MONTANA STATUS: Watch List
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Threatened in OR, rare in
 B.C.
 GLOBAL DISTRIBUTION: Circumboreal, south in w. N.
 America to CA and CO; S. America. Sparse.
 MONTANA COUNTIES: Deer Lodge, Glacier
 LAND OWNERSHIP: Glacier National Park, Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Anaconda
 Range
 HABITAT: Moist tundra or gravelly soil in the alpine
 zone, 2135-2500 m (7,000-8,200 ft)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This inconspicuous plant may be more common
 than records indicate. It is locally common above
 timberline in Glacier National Park.

WATCH LIST

SCIENTIFIC NAME: *GENTIANELLA TENELLA* (Rottb.) Borner
 COMMON NAME: Slender gentian
 FAMILY: Gentianaceae (Gentian Family)
 PERTINENT SYNONYMS: *Gentiana tenella* Rottb.
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Monitor list in ID, rare in B.C.
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to Que., NM, AZ, and CA. Sparse.
 MONTANA COUNTIES: Carbon, Madison, Park, Stillwater
 LAND OWNERSHIP: Beaverhead N.F., Custer N.F., Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Absaroka Range, Beartooth Mtns., Gravelly Range
 HABITAT: Moist tundra in the alpine zone, 2900-3050 m (9,500-10,000 ft.)
 PHENOLOGY: Flowering in late July and August
 COMMENTS: This small plant is easily overlooked and may be more common than records indicate.

SCIENTIFIC NAME: *GEOCAULON LIVIDUM* (Richards.) Fern.
 COMMON NAME: Northern bastard-toadflax
 FAMILY: Santalaceae (Sandalwood Family)
 PERTINENT SYNONYMS: *Comandra livida* Richards.
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: Sensitive
 GLOBAL DISTRIBUTION: AK to Lab., south to n. WA, n. ID, nw. MT, MI, and NY. Peripheral.
 MONTANA COUNTIES: Flathead, Lake, Lincoln
 LAND OWNERSHIP: Flathead N.F., Kootenai N.F., State, private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River and Kootenai River drainages
 HABITAT: Moist spruce forests, often bordering wetland areas, in the montane zone, 900-1000 m (3,000-3,300 ft.)
 PHENOLOGY: Flowering in June, mature fruit in July and August
 COMMENTS: Although this inconspicuous plant may be more common in Montana than records indicate, known populations are small, and some are threatened by timber harvest activity.

SCIENTIFIC NAME: *GRINDELIA HOWELLII* Steyermark
 COMMON NAME: Howell's gumweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G3/S3
 USFWS STATUS: C2
 USFS STATUS: Sensitive
 STATUS IN OTHER STATES: Threatened in ID
 GLOBAL DISTRIBUTION: Northern ID, w.-central MT. Regional endemic.
 MONTANA COUNTIES: Missoula, Powell
 LAND OWNERSHIP: Lolo N.F., private, state
 PHYSIOGRAPHIC DISTRIBUTION: Blackfoot and Clearwater river drainages
 HABITAT: Various disturbed and natural areas, including roadsides, grazed pastures, pine plantations, forest openings, river terraces, and native grasslands, 760-1490 m (2,500-4,880 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This species is tolerant of disturbance; however, numerous populations are small and possibly ephemeral. Monitoring is needed to determine overall trends. Most sites in Montana are located on private lands.

SCIENTIFIC NAME: *KOENIGIA ISLANDICA* L.
 COMMON NAME: Koenigia
 FAMILY: Polygonaceae (Buckwheat Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., rare in B.C.
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to Que., Alta., and B.C., disjunct in MT, WY, and CO. Disjunct.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Wet, open, gravelly soil in seepage areas in the alpine zone, 2990-3290 m (9,800-10,800 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This species is locally common in the Beartooth Mtns.

SCIENTIFIC NAME: *LESQUERELLA KLAUSII* Rollins
 COMMON NAME: Divide bladderpod
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G3/S3
 USFWS STATUS: None
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: Western MT. Regional endemic.
 MONTANA COUNTIES: Lewis & Clark, Meagher
 LAND OWNERSHIP: Helena N.F., Lewis & Clark N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Big Belt Mtns., Little Belt Mtns., s. Front Range Mtns.
 HABITAT: Open shale slopes and gravelly areas, at moderate to fairly high elevations in the mountains, 1220-2165 m (4,000-7,100 ft.)
 PHENOLOGY: Flowering in May and early June, fruiting in late May through June
 COMMENTS: This Montana endemic is locally common at some locations in the Big Belt Mtns. and the Rogers Pass area.

SCIENTIFIC NAME: *LIGUSTICUM FILICINUM* Wats.
 COMMON NAME: Fern-leaf loveage
 FAMILY: Apiaceae (Parsley Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Southwest MT and se. ID, nw. WY, and n. UT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Madison
 LAND OWNERSHIP: Beaverhead N.F., Red Rock Lakes N.W.R.
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Range, Centennial Mtns., Gravelly Range
 HABITAT: Moist meadows and forest openings in the montane and subalpine zones, 1650-2440 m (5,400-8,000 ft.)
 PHENOLOGY: Flowering in late June and July
 COMMENTS: This species is locally common in the area surrounding the Centennial Valley. It can be difficult to distinguish from *L. tenuifolium*.

WATCH LIST

SCIENTIFIC NAME: *MIULUS SUKSDORFII* Gray
 COMMON NAME: Suksdorf's monkey-flower
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Sensitive in WA
 GLOBAL DISTRIBUTION: WA to CA, east to MT, WY and CO.
 Sparse.
 MONTANA COUNTIES: Beaverhead, Carbon, Gallatin,
 Glacier, Missoula
 LAND OWNERSHIP: Beaverhead N.F.; BLM, Butte District,
 Miles City District.; Gallatin N.F., Glacier
 National Park(?), private(?)
 PHYSIOGRAPHIC DISTRIBUTION: Pioneer Mtns., Pryor
 Mtns., Tendency Mtns., Gallatin Range, Lewis Range,
 Rattlesnake Mtns.
 HABITAT: Vernal moist soil of grasslands and rocky
 slopes in the foothills and montane zones,
 1465-2165 m (4,800-7,100 ft)
 PHENOLOGY: Flowering in May through early July
 COMMENTS: This inconspicuous and ephemeral species
 may be more common than records indicate.

SCIENTIFIC NAME: *PANICUM OCCIDENTALE* Scribn.
 COMMON NAME: Western witchgrass
 FAMILY: Poaceae (Grass Family)
 PERTINENT SYNONYMS: *P. acuminatum* Swartz,
Dichanthelium acuminatum (Swartz) Gould & Clark
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Alberta to s. B.C., s. to s. CA
 and AZ. Sparse.
 MONTANA COUNTIES: Beaverhead, Flathead, Lincoln,
 Madison, Missoula, Ravalli
 LAND OWNERSHIP: Private; Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Pioneer
 Range, Flathead River and Madison River drainages
 HABITAT: Rocky or sandy river banks or lake margins
 up to 2380 m (7,800 ft.); around hot springs,
 900-2135 m (2,950-7,000 ft.)
 PHENOLOGY: Flowering July, fruiting July-August
 COMMENTS: Four collections were in the vicinity of
 hot springs.

SCIENTIFIC NAME: *PENSTEMON CARYI* Pennell
 COMMON NAME: Cary's beardtongue
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G2G3/S2
 USFWS STATUS: 3C
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: South-central MT, n.-central WY.
 Regional endemic.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.
 HABITAT: Open grasslands and slopes in the mountains,
 1800-2465 m (5,900-8,080 ft.)
 PHENOLOGY: Flowering June-July, fruiting July
 COMMENTS: This species is local in the Pryor Mtns.
 Many of the populations are small.

SCIENTIFIC NAME: *PHLOX ANDICOLA* Nutt.
 COMMON NAME: Plains phlox, moss phlox
 FAMILY: Polemoniaceae (Phlox Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern MT and sw. ND, south to
 CO and KS. Peripheral.
 MONTANA COUNTIES: McCone, Wibaux, reported for
 Sheridan
 LAND OWNERSHIP: Private
 PHYSIOGRAPHIC DISTRIBUTION: Northern Great Plains
 HABITAT: Open, sandy soil in grasslands on the plains
 PHENOLOGY: Flowering in June
 COMMENTS: This species may be more common in Montana
 than records indicate.

SCIENTIFIC NAME: *PHLOX KELSEYI* Britt. var.
MISSOULENSIS (Wherry) Cronq.
 COMMON NAME: Missoula phlox
 FAMILY: Polemoniaceae (Phlox Family)
 PERTINENT SYNONYMS: *P. missoulensis* Wherry
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G4T2Q/S2
 USFWS STATUS: 3C
 USFS STATUS: Watch list
 GLOBAL DISTRIBUTION: West and central MT. Regional
 endemic.
 MONTANA COUNTIES: Cascade, Granite, Lewis & Clark,
 Meagher, Missoula, Powell.
 LAND OWNERSHIP: Deerlodge N.F., Helena N.F., Lewis &
 Clark N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Little Belt Mtns.,
 Continental near Helena, Clark Fork River and upper
 Missouri River drainages
 HABITAT: Open, windswept slopes, 1095-2300 m
 (3,600-7,540 ft.)
 PHENOLOGY: Flowering in May and June
 COMMENTS: This variety is endemic to Montana, and
 occurs sporadically in the western portion of the
 state.

SCIENTIFIC NAME: *RANUNCULUS ORTHORHYNCHUS* Hook.
 COMMON NAME: Straightbeak buttercup
 FAMILY: Ranunculaceae (Buttercup Family)
 MONTANA STATUS: Watch List
 GLOBAL AND STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: AK to CA, east to MT, WY and UT.
 Peripheral.
 MONTANA COUNTIES: Granite, Mineral, Missoula
 LAND OWNERSHIP: Deerlodge N.F. and Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns, Anaconda
 Mtns.
 HABITAT: Streambanks and moist meadows in the montane
 zone, 975-2040 m (3,200-6,700 ft)
 PHENOLOGY: Flowering in June through early August
 COMMENTS: Our plants are var. *platyphylus* Gray.

WATCH LIST

SCIENTIFIC NAME: *RAMUNCULUS VERECUNDUS* Robins.

COMMON NAME: Modest buttercup

FAMILY: Ranunculaceae (Buttercup Family)

MONTANA STATUS: Watch List

GLOBAL AND STATE RANKS (TNC): G5/S1

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: Rare in B.C. and Alta., review list in OR.

GLOBAL DISTRIBUTION: AK south to OR, ID, and WY. Sparse.

MONTANA COUNTIES: Deer Lodge, Flathead, Glacier

LAND OWNERSHIP: Glacier National Park, Deerlodge N.F.

PHYSIOGRAPHIC DISTRIBUTION: Lewis, Livingston, and Anaconda ranges

HABITAT: Meadows and ridges, often in gravel or among cobbles in the alpine zone, ca. 2040-2745 m (6,700-9,000 ft)

PHENOLOGY: Flowering in June through August

COMMENTS: This species is locally common in Glacier National Park.

SCIENTIFIC NAME: *SATUREJA DOUGLASII* (Benth.) Briq.

COMMON NAME: Yerba buena

FAMILY: Lamiaceae (Mint Family)

MONTANA STATUS: Watch List

GLOBAL AND STATE RANKS (TNC): G4/S2

USFWS STATUS: None

USFS STATUS: Sensitive

STATUS IN OTHER STATES: Rare in B.C.

GLOBAL DISTRIBUTION: B.C. to CA, east to n. ID and nw. MT. Peripheral.

MONTANA COUNTIES: Missoula, Ravalli, Sanders

LAND OWNERSHIP: Bitterroot N.F., Kootenai N.F., Lolo N.F.

PHYSIOGRAPHIC DISTRIBUTION: Bitterroot River and lower Clark Fork River drainages

HABITAT: Partial or deep shade of moist forests in the montane zone, 670-1600 m (2,200-5,300 ft.)

PHENOLOGY: Flowering in July

COMMENTS: This species appears to respond positively to light disturbance. It is locally common northwest of Missoula.

SCIENTIFIC NAME: *SCIRPUS CESPITOSUS* L.

COMMON NAME: Tufted clubrush

FAMILY: Cyperaceae (Sedge Family)

MONTANA STATUS: Watch List

GLOBAL AND STATE RANKS (TNC): G5/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Circumboreal, south in w. N. America to OR, UT, and MT. Sparse.

MONTANA COUNTIES: Beaverhead, Flathead, Powell, Teton

LAND OWNERSHIP: Glacier National Park, Beaverhead

N.F., Flathead N.F., private

PHYSIOGRAPHIC DISTRIBUTION: Flathead, Livingston, Front, and Pioneer ranges

HABITAT: Wet meadows and sphagnum bogs in the montane to alpine zones, 1145-2135 m (3750-7,000 ft)

PHENOLOGY: Mature fruit in July and August

SCIENTIFIC NAME: *SPHENOPHOLIS OBTUSATA* (Michx.)Scribn. var *MAJOR* (Torr.) Erdm.

COMMON NAME: Prairie wedgegrass

FAMILY: Poaceae (Grass Family)

PERTINENT SYNONYMS: *S. intermedia* Rydb.

MONTANA STATUS: Watch List

GLOBAL AND STATE RANKS (TNC): G5T5/S2

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Most of N. America north of Mex.; range of species as a whole is AK to Newf., south to Mex. Sparse.

MONTANA COUNTIES: Cascade, Flathead, Gallatin, Lewis & Clark

LAND OWNERSHIP: Private

PHYSIOGRAPHIC DISTRIBUTION: Flathead River and

Missouri River drainages

HABITAT: Grasslands in the valleys and on the plains, 915-1525 m (3,000-5,000 ft.)

PHENOLOGY: Mature in July and August

COMMENTS: Three collections are more than 50 years old.

SCIENTIFIC NAME: *STANLEYA VIRIDIFLORA* Nutt.

COMMON NAME: Perennial prince's-plume, green prince's-plume

FAMILY: Brassicaceae (Mustard Family)

MONTANA STATUS: Watch List

GLOBAL AND STATE RANKS (TNC): G4/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Central OR to sw MT, south to WY, UT, and NV. Peripheral.

MONTANA COUNTIES: Beaverhead, Madison

LAND OWNERSHIP: BLM, Butte District; Beaverhead N.F.; private(?)

PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River drainage, Ruby River drainage

HABITAT: Open, stony soil of steep slopes and outcrops in the valley and foothill zones, 1830-1920 m (6,000-6,300 ft.)

PHENOLOGY: Flowering in July

COMMENTS: Many known populations are small, but the species may be more common than records indicate.

SCIENTIFIC NAME: *SAXIFRAGA TEMPESTIVA* Elvander & Denton

COMMON NAME: Storm saxifrage

FAMILY: Saxifragaceae (Saxifrage Family)

MONTANA STATUS: Watch List

GLOBAL AND STATE RANKS (TNC): G2/S2

USFWS STATUS: None

USFS STATUS: Sensitive

GLOBAL DISTRIBUTION: Southwest MT. Regional endemic.

MONTANA COUNTIES: Beaverhead, Deer Lodge, Granite, Ravalli

LAND OWNERSHIP: Beaverhead N.F., Bitterroot N.F., Deerlodge N.F.

PHYSIOGRAPHIC DISTRIBUTION: Anaconda Range, Bitterroot Range, Flint Creek Mtns., Pioneer Range, Sapphire Mtns.

HABITAT: Vernal moist, open soil in meadows and on rock ledges in the subalpine and alpine zones 2400-3150 m (7875-10,325 ft.)

PHENOLOGY: Flowering in June and July

COMMENTS: This plant is a Montana endemic.

WATCH LIST

SCIENTIFIC NAME: *TOWNSENDIA CONDENSATA* Eat.
COMMON NAME: Cushion townsendia, cushion daisy
FAMILY: Asteraceae (Sunflower Family)
PERTINENT SYNONYMS: *T. spathulata* Nutt. (misapplied)
MONTANA STATUS: Watch List
GLOBAL and STATE RANKS (TNC): G3/S1
USFWS STATUS: None
USFS STATUS: None
STATUS IN OTHER STATES: Rare in Alta.
GLOBAL DISTRIBUTION: Alta. south to ec. ID, w. MT,
and nw. WY. Regional endemic.
MONTANA COUNTIES: Beaverhead, Glacier, Madison, Park
LAND OWNERSHIP: Glacier National Park, Beaverhead
N.F., Custer N.F.
PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.,
Beaverhead Mtns., Lewis Range, Snowcrest Range
HABITAT: Open, rocky, often limestone-derived soil of
windswept slopes and ridge tops in the alpine zone,
2590-3200 m (8,500-10,500 ft.)
PHENOLOGY: Flowering in July
COMMENTS: Most known Montana populations of this
species are small.

LIMITED DISTRIBUTION

SCIENTIFIC NAME: **AGROSTIS BOREALIS** Hartm.
 COMMON NAME: Northern bentgrass
 FAMILY: Poaceae (Grass Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in Alta., sensitive in WA
 GLOBAL DISTRIBUTION: AK to Newfoundland, s. to ne. U.S., and in the higher mountains to NC, and in the Rocky Mtns. to CO and UT; reportedly in WA and B.C. Sparse.
 MONTANA COUNTIES: Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range
 HABITAT: Moist, alpine areas, 2590-2775 m (8,500-9,100 ft.)
 PHENOLOGY: July-September
 COMMENTS: Reports of this species from the Beartooth Mtns. were based on misidentified specimens.

SCIENTIFIC NAME: **ARTEMISIA PEDATIFIDA** Nutt.
 COMMON NAME: Birdfoot sagebrush
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Limited distribution
 GLOBAL and STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Wyoming and s. MT. Peripheral.
 MONTANA COUNTIES: Carbon, Gallatin
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtn.-Big Horn canyon area, Bridger Mtns.
 HABITAT: Sandy or clayey, open soil of open slopes and flats in the valley zone, 1150-1400 m (3,800-4,600 ft.)
 PHENOLOGY: Flowering in May and June

SCIENTIFIC NAME: **ASTRAGALUS HYALINUS** Jones
 COMMON NAME: Summer orophaca
 FAMILY: Fabaceae (Pea Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G3/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Northeastern CO, e. WY, w. NE, w. SD, and s.-central MT; reported for ND. Peripheral.
 MONTANA COUNTIES: Big Horn, Carbon
 LAND OWNERSHIP: BLM, Miles City District; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area
 HABITAT: Barren hilltops, gullied bluffs, and badlands, on sedimentary formations, 1315-1490 m (4,320-4,880 ft.)
 PHENOLOGY: Flowering and fruiting June-July

SCIENTIFIC NAME: **CARDAMINE RUPICOLA** (Rydb.) Hitchc.
 COMMON NAME: Cliff toothwort
 FAMILY: Brassicaceae (Mustard Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G2/S2
 USFWS STATUS: 3C
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Northwest Montana. Regional endemic.
 MONTANA COUNTIES: Flathead, Lake, Lewis & Clark, Missoula, Powell
 LAND OWNERSHIP: Flathead N.F., Helena N.F., Lewis & Clark N.F., Flathead Indian Res.
 PHYSIOGRAPHIC DISTRIBUTION: Flathead Range, Front Range, Mission Range, Swan Range
 HABITAT: Limestone talus in the subalpine and alpine zones, 2130-3050 m (7,000-10,000 ft.)
 PHENOLOGY: Flowering in June and July
 COMMENTS: Locally common in the Mission and Swan ranges. Endemic to Montana.

SCIENTIFIC NAME: **CAREX CAPITATA** L.
 COMMON NAME: Capitulate sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Circumboreal s. to s. B.C. and Alta.; irregularly south to MT, WY, CA, and reportedly in CO; Mexico. Sparse
 MONTANA COUNTIES: Carbon, Park, Sweet Grass
 LAND OWNERSHIP: Custer N.F., Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns., Crazy Mtns.
 HABITAT: Open, dry or wet places at high altitudes in the mountains, 2745-3050 m (9,000-10,000 ft.)
 PHENOLOGY: Flowering and fruiting July-September
 COMMENTS: This sedge is thought to be common throughout the Absaroka-Beartooth Mountains.

SCIENTIFIC NAME: **CAREX MISANDRA** R. Br.
 COMMON NAME: Few-flowered sedge
 FAMILY: Cyperaceae (Sedge Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Circumboreal, south to CO and UT. Sparse.
 MONTANA COUNTIES: Carbon, Ravalli, Stillwater
 LAND OWNERSHIP: Bitterroot N.F., Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns., Bitterroot Mtns.
 HABITAT: Wet rock ledges and tundra in the alpine zone, 2530-3200 m (8,300-10,500 ft.)
 PHENOLOGY: Mature fruit in mid-July and August
 COMMENTS: This species is locally common in the Beartooth Mtns.

LIMITED DISTRIBUTION

SCIENTIFIC NAME: *CASTILLEJA ANGUSTIFOLIA* (Nutt.) G.

Don

COMMON NAME: Narrow-leaved paintbrush, northwest paintbrush

FAMILY: Scrophulariaceae (Figwort Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G4G5/S2

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: Review list in ID

GLOBAL DISTRIBUTION: South-central and sw. MT, nw. WY, sw. ID, and nw. UT. Regional endemic.

MONTANA COUNTIES: Beaverhead, Carbon

LAND OWNERSHIP: BLM, Butte District, Miles City

District; Custer N.F.; private

PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River drainage, Pryor Mtns.- Big Horn Canyon area

HABITAT: Open slopes and sagebrush grassland in the valley and foothill zones, 1160-1860 m (3,800-6,100 ft.)

PHENOLOGY: Flowering late May through early July

COMMENTS: This species is closely related to *C. chromosa*, and specimens are often difficult to determine.

SCIENTIFIC NAME: *CASTILLEJA OCCIDENTALIS* Torrey

COMMON NAME: Western paintbrush

FAMILY: Scrophulariaceae (Figwort Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G5/S2

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: Rare in B.C.

GLOBAL DISTRIBUTION: High mountains of CO and UT, and nw. MT northward. Peripheral.

MONTANA COUNTIES: Flathead, Glacier

LAND OWNERSHIP: Glacier National Park

PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Livingston Range

HABITAT: Moist alpine slopes and meadows, 2010-2265 m (6,600-7,430 ft.)

PHENOLOGY: Flowering in July-August

COMMENTS: This species is locally common in Glacier National Park.

SCIENTIFIC NAME: *CORDYLANTHUS RAMOSUS* Nutt.

COMMON NAME: Bushy birdbeak

FAMILY: Scrophulariaceae (Figwort Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G5/S2

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: OR to ne. CA, east to sw. MT, WY, and CO. Peripheral.

MONTANA COUNTIES: Beaverhead

LAND OWNERSHIP: BLM, Butte District; private

PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River drainage

HABITAT: Sagebrush grassland in the valley and foothill zones, 1680-1920 m (5,500-6,300 ft.)

PHENOLOGY: Flowering in July and early August

COMMENTS: This species is locally common throughout much of southern Beaverhead Co.

SCIENTIFIC NAME: *CRYPTANTHA CANA* (A. Nels.) Pays.

COMMON NAME: Woolly cryptantha

FAMILY: Boraginaceae (Borage Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G5/S2

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: Rare in SD

GLOBAL DISTRIBUTION: Southwest SD, s. MT, and WY, south to NE and CO. Peripheral.

MONTANA COUNTIES: Carbon

LAND OWNERSHIP: BLM, Miles City District; Big Horn

Canyon N.R.A.

PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn

Canyon area

HABITAT: Gravelly, open soil of desert grasslands, shrublands and woodlands in the valley and foothill zones, 1250-1650 m (4,100-5,400 ft.)

PHENOLOGY: Flowering in May and early June

COMMENTS: Woolly cryptantha is locally common in the Big Horn Canyon area.

SCIENTIFIC NAME: *DRABA DAVIESIAE* (Hitchc.) Rollins

COMMON NAME: Bitterroot draba

FAMILY: Brassicaceae (Mustard Family)

PERTINENT SYNONYMS: *D. apiculata* Hitchc. var. *daviesiae* Hitchc.

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G2G3/S2S3

USFWS STATUS: 3C

USFS STATUS: None

STATUS IN OTHER STATES: Sensitive in ID

GLOBAL DISTRIBUTION: Ravalli Co, MT and Custer Co., ID. Regional endemic.

MONTANA COUNTIES: Ravalli

LAND OWNERSHIP: Bitterroot N.F.

PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range

HABITAT: Open, rocky soil and talus in the subalpine and alpine zones, 2560-3020 m (8,400-9,900 ft.)

PHENOLOGY: Flowering in July and August, mature fruit in late July and August

COMMENTS: This species is locally abundant in alpine areas throughout the main Bitterroot Mtns.

SCIENTIFIC NAME: *ERIGERON FLABELLIFOLIUS* Rydb.

COMMON NAME: Fan-leaved daisy

FAMILY: Asteraceae (Sunflower Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G3G4/S2

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Southwest MT and nw. WY.

Regional endemic.

MONTANA COUNTIES: Carbon, Park

LAND OWNERSHIP: Custer N.F., Gallatin N.F.

PHYSIOGRAPHIC DISTRIBUTION: Absaroka Range, Beartooth Mtns., Crazy Mtns.

HABITAT: Open gravelly soil and talus slopes in the alpine zone, 2800-3350 m (9,200-11,000 ft.)

PHENOLOGY: Flowering in July and August

COMMENTS: This species is locally common in the Beartooth Mtns.

LIMITED DISTRIBUTION

SCIENTIFIC NAME: *ERIGERON LANATUS* Hook.
 COMMON NAME: Woolly daisy, wooly fleabane
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Southern Alta. and B.C. and nw.
 MT, disjunct in CO and the Yukon. Regional endemic.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range
 HABITAT: Limestone talus slopes in the alpine zone,
 2290-2590 m (7,500-8,500 ft.)
 PHENOLOGY: Flowering in late July and August
 COMMENTS: This species is locally common in Glacier
 Park.

SCIENTIFIC NAME: *ERIOGONUM CAPISTRATUM* Rev.
 COMMON NAME: Muhlick's buckwheat
 FAMILY: Polygonaceae (Buckwheat Family)
 PERTINENT SYNONYMS: *E. chrysops* misapplied
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4/S3
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Central ID and sw. MT. Regional
 endemic
 MONTANA COUNTIES: Deer Lodge, Granite, Ravalli
 LAND OWNERSHIP: Bitterroot N.F. Deerlodge N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.,
 Anaconda Mtns.
 HABITAT: Dry stony soil, often on exposed ridges near
 or above timberline, 2590-2955 m (8,500-9,700 ft)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This Montana endemic is frequent in the
 Bitterroot Mtns. Our plants are var. muhlickii Rev.
 (Reveal 1989).

SCIENTIFIC NAME: *ERIOGONUM PYROLIFOLIUM* Hook.
 COMMON NAME: Alpine buckwheat
 FAMILY: Polygonaceae (Buckwheat Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Cascade Mtns., WA and OR, east
 to the Bitterroot Mtns. of ID and MT. Peripheral.
 MONTANA COUNTIES: Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Subalpine and alpine rocky ridges and talus
 slopes, 2285-3050 m (7,500-10,000 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This plant is frequent in the Bitterroot
 Mtns. Our plants are var. coryphaeu T. & G.

SCIENTIFIC NAME: *ERIOGONUM UMBELLATUM* Torr. var.
STELLATUM (Benth.) M.E. Jones
 COMMON NAME: Starry buckwheat
 FAMILY: Polygonaceae (Buckwheat Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5TU/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA and OR, c. ID and
 adjacent MT. Regional endemic.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Dry, open slopes at low to mid-elevations,
 1220-1980 m (4,000-6,500 ft.)
 PHENOLOGY: Flowering in July and August
 COMMENTS: This plant is common in the Bitterroot
 Mtns.

SCIENTIFIC NAME: *ERIOGONUM X LAGOPUS* Rydb.
 COMMON NAME: Rabbit buckwheat
 FAMILY: Polygonaceae (Buckwheat Family)
 PERTINENT SYNONYMS: *E. pauciflorum* Pursh var. canum
 (Stokes) Reveal, *E. brevicaule* Nutt. var. canum
 (Stokes) Dorn (see Comments)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G2Q/S2
 USFWS STATUS: C2
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT and adjacent
 WY. Regional endemic.
 MONTANA COUNTIES: Carbon, Treasure(?)
 LAND OWNERSHIP: BLM, Miles City District; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn
 Canyon area
 HABITAT: Open soil in sagebrush grasslands and desert
 shrublands in the valley zone, 1220-1340 m
 (4,000-4,400 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: James Reveal (pers. comm.) considers this
 species to be of hybrid origin. Robert Dorn (pers.
 comm.) believes that *E. lagopus* is not the correct
 name for this plant. Taxonomic work is needed to
 clarify this problem.

SCIENTIFIC NAME: *ERIOGONUM OVALIFOLIUM* Nutt. var.
MEVADENSE Gand.
 COMMON NAME: Yellow cushion buckwheat
 FAMILY: Polygonaceae (Buckwheat Family)
 PERTINENT SYNONYMS: *E. ovalifolium* var. celsum Nels.
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5T4/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA to sw. MT, south to
 CA, NV, UT and WY. The range of the species as a
 whole is B.C. to Alta., south to CA and NM.
 Peripheral.
 MONTANA COUNTIES: Beaverhead, Madison
 LAND OWNERSHIP: BLM, Butte District; private
 PHYSIOGRAPHIC DISTRIBUTION: Beaverhead River and
 Madison River drainages
 HABITAT: Dry grasslands or shrublands, often in sandy
 soil, in the valleys and montane zone, 1525-2010 m
 (5,000-6,600 ft.)
 PHENOLOGY: Flowering in June and July
 COMMENTS: This plant is locally common in southern
 Beaverhead Co. and along the upper Madison River.

SCIENTIFIC NAME: HAPLOPAPPUS MULTICAULIS (Nutt.) Gray
 COMMON NAME: Many-stemmed goldenweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Undetermined in SD
 GLOBAL DISTRIBUTION: Southeast MT, e. WY, and w. SD.
 Regional endemic.
 MONTANA COUNTIES: Carter
 LAND OWNERSHIP: Private; BLM, Miles City District (?)
 PHYSIOGRAPHIC DISTRIBUTION: Little Missouri River
 drainage
 HABITAT: Open or barren clay soils in grasslands on
 the plains, ca. 980-1160 m (3,200-3,800 ft.)
 PHENOLOGY: Flowering in June through mid-July
 COMMENTS: This species is locally common in southern
 Carter Co.

SCIENTIFIC NAME: HYMENOXYS TORREYANA (Nutt.) Parker
 COMMON NAME: Torrey's bitterweed
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: South-central MT, WY and n. UT.
 Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Absaroka-Beartooth Mtns.,
 Pryor-Big Horn Canyon area
 HABITAT: Open ridges and meadows at low to high
 elevations in the mountains, often on limestone,
 1645-2560 m (5,400-8,400 ft.)
 PHENOLOGY: Flowering May-July
 COMMENTS: This species is locally common in the Pryor
 Mtns.

SCIENTIFIC NAME: JUNCUS CASTANEUS J. E. Smith
 COMMON NAME: Chestnut rush
 FAMILY: Juncaceae (Rush Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: None
 GLOBAL DISTRIBUTION: Greenland to AK, south to Lab.,
 Man., CO, UT, and NM; Eurasia. Sparse.
 MONTANA COUNTIES: Carbon, Flathead, Gallatin,
 Glacier, Park, Stillwater
 LAND OWNERSHIP: Glacier National Park, Custer N.F.,
 Gallatin N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Absaroka Range, Beartooth
 Mtns., Lewis Range
 HABITAT: Wet, often gravelly soil in seepage areas in
 the alpine and subalpine zones, 1790-3200 m
 (5,900-10,500 ft.)
 PHENOLOGY: Mature fruit in late July and August
 COMMENTS: This species is locally common in the
 Beartooth Mtns. and the Lewis Range.

SCIENTIFIC NAME: JUNCUS TRIGLUMIS L. var. TRIGLUMIS
 COMMON NAME: Three-flowered rush
 FAMILY: Juncaceae (Rush Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5T5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Circumpolar, south in N. America
 to AK and MT, WY, and CO. The species as a whole is
 circumpolar, south to Que., Ont., UT, and CO.
 Disjunct.
 MONTANA COUNTIES: Carbon, Stillwater
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Wet, open, gravelly soil around seepage
 areas in the alpine zone, 3000-3200 m
 (9,800-10,500 ft.)
 PHENOLOGY: Mature fruit in August
 COMMENTS: This plant is locally common in the
 Beartooth Mtns.

SCIENTIFIC NAME: LINANTHUS NUTTALLII (Gray) Greene
 COMMON NAME: Nuttall's linanthus
 FAMILY: Polemoniaceae (Phlox Family)
 PERTINENT SYNONYMS: Linanthes nuttallii (Gray)
 Ewan

MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: WA to CA, east to W. MT, W. WY,
 and NM. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F., private
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range,
 Sapphire Range
 HABITAT: Open soil in grasslands and on rock outcrops
 in the montane zone, 1460-2745 m (4,500-9,000 ft.)
 PHENOLOGY: Flowering in late June through early
 August, depending on elevation
 COMMENTS: This species is locally common in the
 Bitterroot Mtns.

SCIENTIFIC NAME: LOMATIUM BICOLOR (Wats.) Coult. &
 Rose

COMMON NAME: Bicolor biscuitroot
 FAMILY: Apiaceae (Parsley Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Western MT, ID, and UT.
 Peripheral.
 MONTANA COUNTIES: Ravalli, Sanders
 LAND OWNERSHIP: Bitterroot N.F., Kootenai N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Bull
 River drainage
 HABITAT: Rocky slopes, crevices of outcrops, and
 scree slopes, at mid-elevations in the mountains,
 1245-2380 m (4,080-7,800 ft.)
 PHENOLOGY: Flowering and fruiting June-July
 COMMENTS: This species has been frequently collected
 in the Bitterroot Range; one site was also located
 in Sanders County in 1989. Our plants are var.
bicolor.

SCIENTIFIC NAME: *OXYTROPIS LAGOPUS* Nutt. var.

CONJUGENS Berneby

COMMON NAME: Rabbit-foot crazyweed

FAMILY: Fabaceae (Pea Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G4T2/S2

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: The variety is endemic to w.-central MT; the species occurs in the Rocky Mtns. from w. MT and ID to WY. Regional endemic.

MONTANA COUNTIES: Granite, Jefferson, Lewis & Clark, Madison, Powell, Teton

LAND OWNERSHIP: Deerlodge N.F., Private, state
PHYSIOGRAPHIC DISTRIBUTION: Clark Fork River and Missouri River drainages

HABITAT: Sagebrush plains to lower mountains; 1190-1865 m (3,900-6,120 ft.)

PHENOLOGY: Flowering May-June, fruiting July

COMMENTS: This plant is endemic to Montana.

SCIENTIFIC NAME: *PAPAVER PYGMAEUM* Rydb.

COMMON NAME: Pygmy poppy, alpine glacier poppy

FAMILY: Papaveraceae (Poppy Family)

PERTINENT SYNONYMS: (see Comments)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G5/S2

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: Rare in B.C., rare in Alta.

GLOBAL DISTRIBUTION: Southern Alta. and B.C. and nw. MT. Regional endemic.

MONTANA COUNTIES: Flathead, Glacier

LAND OWNERSHIP: Flathead N.F., Glacier National Park

PHYSIOGRAPHIC DISTRIBUTION: Flathead Range, Lewis Range, Livingston Range

HABITAT: Open, stony soil on gentle slopes and ridge tops in the alpine zone, 2190-2500 m (7,200-8,200 ft.)

PHENOLOGY: Flowering in late July and August

COMMENTS: This species is locally common at many locations in Glacier Park. Welsh et al. (1987) consider this a form of the widespread *P. radiculatum* Rottb.SCIENTIFIC NAME: *PEDICULARIS CONTORTA* Benth. var.

CTENOPHORA (Rydb.) Nels. & Macbr.

COMMON NAME: Coil-beaked lousewort

FAMILY: Scrophulariaceae (Figwort Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G5T7/SU

USFWS STATUS: None

USFS STATUS: Watch List

GLOBAL DISTRIBUTION: Southwest MT to nc. WY. The range of the species as a whole is B.C. and Alta. south to CA and WY. Regional endemic.

MONTANA COUNTIES: Beaverhead

LAND OWNERSHIP: Beaverhead N.F.

PHYSIOGRAPHIC DISTRIBUTION: Beaverhead Mtns.

HABITAT: Wooded or open slopes and drier meadows in the montane to subalpine zones, 2440-2620 m (8,000-8,600 ft.)

PHENOLOGY: Flowering late June and July

COMMENTS: This species is common in the Beaverhead Mtns.

SCIENTIFIC NAME: *PEDICULARIS CONTORTA* Benth. var.

RUBICUNDA N. Reese

COMMON NAME: Coil-beaked lousewort

FAMILY: Scrophulariaceae (Figwort Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G5T2/S1

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Northern ID, sw. MT. Regional endemic. The range of the species as a whole is B.C. and Alta. south to ID and WY.

MONTANA COUNTIES: Ravalli, Deer Lodge.

LAND OWNERSHIP: Bitterroot N.F., Deerlodge N.F.

PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns., Anaconda-Pintlar Range

HABITAT: Subalpine areas, in deep loam to rocky, well-drained soils; 2135-3050 m (7,000-10,000 ft.)

PHENOLOGY: Flowering from early June-August.

COMMENTS: This variety was recently described by Reese (1984). One specimen from the Bitterroot Range, and one from the Anaconda-Pintlar Range, are considered to be intermediate with var. *contorta*. This plant is common in the southern Bitterroot Mtns.SCIENTIFIC NAME: *PEDICULARIS OEDERI* Vahl

COMMON NAME: Oeder's lousewort

FAMILY: Scrophulariaceae (Figwort Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G5/S2

USFWS STATUS: None

USFS STATUS: None

STATUS IN OTHER STATES: Rare in B.C.

GLOBAL DISTRIBUTION: Circumpolar, south in N. America to MT and WY. Disjunct.

MONTANA COUNTIES: Carbon, Park

LAND OWNERSHIP: Custer N.F.

PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.

HABITAT: Moist tundra in the alpine zone, 2740-3410 m (9,000-11,200 ft.)

PHENOLOGY: Flowering in July and August

COMMENTS: This species is common in the Beartooth Mtns.

SCIENTIFIC NAME: *PENSTEMON FLAVESCENS* Pennell

COMMON NAME: Yellow beardtongue

FAMILY: Scrophulariaceae (Figwort Family)

MONTANA STATUS: Limited Distribution

GLOBAL and STATE RANKS (TNC): G3/S2

USFWS STATUS: None

USFS STATUS: None

GLOBAL DISTRIBUTION: Bitterroot Mtns. of Idaho Co., ID, and adjacent MT. Regional endemic.

MONTANA COUNTIES: Mineral, Missoula, Ravalli

LAND OWNERSHIP: Lolo N.F., Bitterroot N.F.

PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.

HABITAT: Open or wooded, often rocky slopes well up in the mountains, 1860-2650 m (6,100-8,700 ft.)

PHENOLOGY: Flowering and fruiting July-August

COMMENTS: This regional endemic species is apparently more abundant in the Idaho portion of its range.

LIMITED DISTRIBUTION

SCIENTIFIC NAME: *PHIPPSIA ALGIDA* (Phipps) R. Br.
 COMMON NAME: Ice grass
 FAMILY: Poaceae (Grass Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G5/S1
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in WY
 GLOBAL DISTRIBUTION: Circumpolar, south in N. America to AK, Que., and Lab., isolated in MT, WY, and CO. Disjunct.
 MONTANA COUNTIES: Carbon, Stillwater
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Open, wet, gravelly soil of seepage areas and along streams in the alpine zone, 2990-3510 m (9,800-11,500 ft.)
 PHENOLOGY: Flowering and fruiting in August
 COMMENTS: This grass is locally common in many areas of the Beartooth Mtns.

SCIENTIFIC NAME: *PHYSARIA ACUTIFOLIA* Rydb.
 COMMON NAME: Southern twinpod
 FAMILY: Brassicaceae (Mustard Family)
 PERTINENT SYNONYMS: *P. australis* (Pays.) Rollins
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G4G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southern MT south to UT and CO. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; private
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.- Big Horn Canyon area
 HABITAT: Open, often sandy soil on slopes and ridge tops in the valley and foothill zones, 1280-1370 m (4,200-4,500)
 PHENOLOGY: Flowering in May and early June, mature fruit in June
 COMMENTS: This species is locally common in the foothills of the Pryor Mtns.

SCIENTIFIC NAME: *PHYSOCARPUS MONOGYNUS* (Torr.) Coult.
 COMMON NAME: Mountain ninebark
 FAMILY: Rosaceae (Rose family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southern MT and SD, south to CO, NM, and TX. Peripheral.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: Custer N.F.; BLM, Miles City District; private
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns., Pryor Mtns.
 HABITAT: Rocky, limestone-derived soil in forested areas in the montane zone, 1800-2130 m (5,900-7,000 ft.)
 PHENOLOGY: Flowering in June and early July, depending on elevation
 COMMENTS: This species is locally common in Douglas fir forests in southern Carbon Co.

SCIENTIFIC NAME: *PINGUICULA VULGARIS* L.
 COMMON NAME: Common butterwort
 FAMILY: Lentibulariaceae (Bladderwort Family)
 PERTINENT SYNONYMS: *P. vulgaris* L. var. *macroceras* (Link) Herder
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C., rare in Sask.
 GLOBAL DISTRIBUTION: Circumboreal, south in N. America to OR, MT, MI, and NY. Peripheral.
 MONTANA COUNTIES: Flathead, Glacier
 LAND OWNERSHIP: Glacier National Park, Flathead N.F. (reported)
 PHYSIOGRAPHIC DISTRIBUTION: Lewis Range, Livingston Range
 HABITAT: Wet, open soil in tundra and on rock ledges, usually in the alpine zone but also in the montane and subalpine zones, 1300-2200 m (4,260-7,200 ft.)
 PHENOLOGY: Flowering in June through August, depending on elevation
 COMMENTS: There are numerous small colonies of this species scattered throughout Glacier Park.

SCIENTIFIC NAME: *PLATYSCHUKHRIA INTEGRIFOLIA* (Gray) Rydb.
 COMMON NAME: Platyschukhria
 FAMILY: Asteraceae (Sunflower Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: MT to AZ. Regional endemic.
 MONTANA COUNTIES: Carbon
 LAND OWNERSHIP: BLM, Miles City District; Big Horn Canyon N.R.A.
 PHYSIOGRAPHIC DISTRIBUTION: Pryor Mtns.-Big Horn Canyon area
 HABITAT: Sparsely vegetated clayey or sandy soil in grasslands and shrublands in the valleys, 1250-1340 m (4,100-4,400 ft.)
 PHENOLOGY: Flowering in June
 COMMENTS: This plant is locally common in the desert country on the south side of the Pryor Mtns.

SCIENTIFIC NAME: *RUBUS URSINUS* Cham. & Schlecht.
 COMMON NAME: Pacific blackberry
 FAMILY: Rosaceae (Rose Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL and STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: B.C. to CA, east to n. ID and nw. MT. Peripheral.
 MONTANA COUNTIES: Lake, Sanders
 LAND OWNERSHIP: Kootenai N.F., Flathead N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Lower Clark Fork River drainage, Swan River drainage
 HABITAT: Moist forest and forest openings in the valley and foothill zones, 670-1220 m (2,200-4,000 ft.)
 PHENOLOGY: Flowering in June, mature fruit in August
 COMMENTS: This species is common in the Cabinet Gorge area near Noxon Reservoir.

LIMITED DISTRIBUTION

SCIENTIFIC NAME: *SAXIFRAGA CHRYSANTHA* Gray
 COMMON NAME: Golden saxifrage
 FAMILY: Saxifragaceae (Saxifrage Family)
 PERTINENT SYNONYMS: *S. serpyllifolia* Pursh ssp. *chrysantha* (Gray) Weber
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4/S1
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southern MT and WY, south to UT, CO, and NM. Peripheral.
 MONTANA COUNTIES: Carbon, Stillwater
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Open, moist, gravelly soil on gentle slopes in the alpine zone, 3540-3600 m (11,600-11,800 ft.)
 PHENOLOGY: Flowering in August
 COMMENTS: This tiny plant is common at very high elevations in the Beartooth Mtns.

SCIENTIFIC NAME: *SAXIFRAGA MARSHALLII* Greene
 COMMON NAME: Marshall's saxifrage
 FAMILY: Saxifragaceae (Saxifrage Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: OR to CA. Disjunct.
 MONTANA COUNTIES: Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Very shallow, usually moss-covered soil on rock outcrops in the montane to timberline zones, 1430-2470 m (4,700-8,100 ft.)
 PHENOLOGY: Flowering in June and July
 COMMENTS: This plant is locally common in the Bitterroot Mtns.

SCIENTIFIC NAME: *SAXIFRAGA TOLMIEI* T. & G.
 COMMON NAME: Alpine saxifrage
 FAMILY: Saxifragaceae (Saxifrage Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: None
 GLOBAL DISTRIBUTION: AK and B.C., south to CA. Disjunct.
 MONTANA COUNTIES: Missoula, Ravalli
 LAND OWNERSHIP: Bitterroot N.F., Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Range
 HABITAT: Open, moist, gravelly soil of slopes and rock ledges in the alpine and subalpine zones, 2410-2710 m (7,900-8,900 ft.)
 PHENOLOGY: Flowering in late July and August
 COMMENTS: This species is locally common in the Bitterroot Mtns. Our plants are var. *ledifolia* (Greene) Engl. & Irmsch.

SCIENTIFIC NAME: *SEDUM DEBILE* Wats.
 COMMON NAME: Weak-stemmed stonecrop
 FAMILY: Crassulaceae (Stonecrop Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Watch List in OR
 GLOBAL DISTRIBUTION: Central ID and adjacent OR and MT, south to NV, UT and WY. Peripheral.
 MONTANA COUNTIES: Ravalli
 LAND OWNERSHIP: Bitterroot N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Bitterroot Mtns.
 HABITAT: Shallow soil over bedrock in the montane and subalpine zones, 2255-2530 m (7,400-8,300 ft.)
 PHENOLOGY: Flowering in July and early August
 COMMENTS: This species is locally common in the southern Bitterroot Mtns.

SCIENTIFIC NAME: *SEDUM LEIBERGII* Britt.
 COMMON NAME: Leiberg's stonecrop
 FAMILY: Crassulaceae (Stonecrop Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Eastern WA and OR, east to ID and W. MT. Regional endemic.
 MONTANA COUNTIES: Beaverhead, Missoula, Ravalli
 LAND OWNERSHIP: Beaverhead N.F., Bitterroot N.F., Lolo N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Rattlesnake, Bitterroot, and Pioneer ranges
 HABITAT: Open, gravelly soil, talus and rock outcrops from montane to timberline zones, 1585-2650 m (5,200-8,700 ft.)
 PHENOLOGY: Flowering in June or July
 COMMENTS: This species is locally common in the Bitterroot Mtns.

SCIENTIFIC NAME: *SEMECIO FUSCATUS* Hayek
 COMMON NAME: Twice-hairy butterweed
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: *S. tundricola* Tolmie
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G4/S2
 USFWS STATUS: None
 USFS STATUS: None
 STATUS IN OTHER STATES: Rare in B.C.
 GLOBAL DISTRIBUTION: Circumpolar, south in N. America to AK, Yuk., B.C., MT, and WY. Disjunct.
 MONTANA COUNTIES: Carbon, Stillwater
 LAND OWNERSHIP: Custer N.F.
 PHYSIOGRAPHIC DISTRIBUTION: Beartooth Mtns.
 HABITAT: Moist tundra in the alpine zone, 3050-3200 m (10,000-10,500 ft.)
 PHENOLOGY: Flowering in Late July and August
 COMMENTS: This species is common above timberline in the Beartooth Mtns.

LIMITED DISTRIBUTION

SCIENTIFIC NAME: *SPHAEROMERIA CAPITATA* Nutt.
 COMMON NAME: Rock tansy, cluster-headed tansy
 FAMILY: Asteraceae (Sunflower Family)
 PERTINENT SYNONYMS: *Tanacetum capitatum* (Nutt.)
 T. & G.
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G3/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Southern MT, WY and s. UT.
 Regional endemic.
 MONTANA COUNTIES: Beaverhead, Carbon
 LAND OWNERSHIP: BLM, Butte District, Miles City
 District; Big Horn Canyon N.R.A.
 PHYSIOGRAPHIC DISTRIBUTION: Upper Beaverhead River
 drainage, Pryor Mtns.- Big Horn canyon area
 HABITAT: Shallow, limestone-derived soil on rock
 outcrops in sagebrush grassland, desert shrubland,
 and juniper woodland in the valley and foothill
 zones, 1370-1740 m (4,500-5,700 ft.)
 PHENOLOGY: Flowering in late May through early July
 COMMENTS: This species is locally common in the Big
 Horn Canyon area.

SCIENTIFIC NAME: *WOLFFIA PUNCTATA* Griseb.
 COMMON NAME: Spotted water-meal
 FAMILY: Lemnaceae (Duckweed Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G5/S2
 USFWS STATUS: None
 USFS STATUS: None
 GLOBAL DISTRIBUTION: Ont. to MN, south to FL and TX,
 WA to nw. MT, south to CA, West Indies. Peripheral.
 MONTANA COUNTIES: Lake, Missoula, Ravalli
 LAND OWNERSHIP: Flathead Indian Res., private
 PHYSIOGRAPHIC DISTRIBUTION: Flathead River,
 Bitterroot River and Clark Fork River drainages
 HABITAT: Fresh water of ponds and sloughs in the
 valley zone ca. 910-980 m (3,000-3,200 ft.)
 PHENOLOGY: This plant is not known to bloom in
 Montana
 COMMENTS: This species is locally common in the
 Mission and Bitterroot valleys.

SCIENTIFIC NAME: *SYNTHYRIS CANBYI* Pennell
 COMMON NAME: Mission Mountain kittentails
 FAMILY: Scrophulariaceae (Figwort Family)
 MONTANA STATUS: Limited Distribution
 GLOBAL AND STATE RANKS (TNC): G2/S2
 USFWS STATUS: 3C
 USFS STATUS: Watch List
 GLOBAL DISTRIBUTION: Northwest MT. Regional endemic.
 MONTANA COUNTIES: Lake, Missoula
 LAND OWNERSHIP: Flathead N.F., Flathead Indian Res.
 PHYSIOGRAPHIC DISTRIBUTION: Mission Range, Swan Range
 HABITAT: Open, rocky, usually calcareous soil of
 talus slopes and windswept ridge tops in the
 subalpine and alpine zones, 2290-2900 m
 (7,500-9,500 ft.)
 PHENOLOGY: Flowering from late June through early
 August
 COMMENTS: This Montana endemic is locally common in
 the Mission Range. Specimens from the Jocko Mtns.
 appear intermediate between *S. canbyi* and *S.*
pinnatifida.

PLANTS OF UNDETERMINED STATUS

- AGOSERIS AURANTIACA** (Hook.) Greene var. **PURPUREA** (Gray) Cronq. (Asteraceae) The identity of collections at MONT is uncertain; several of them may be *Agoseris lachschewitzii*. These collections need to be verified before the status of this variety can be determined.
- AMARANTHUS CALIFORNICUS** (Moq.) Wats. (Amaranthaceae) Known from a single 90 year-old collection from Gallatin County. Additional information on distribution and abundance is needed to determine the current status in Montana.
- ANTENNARIA PULCHERRIMA** (Hook.) Greene (Asteraceae) This species is very similar to *A. anaphaloides*, and it is not clear how to unambiguously separate the two. Further information on this group is required to determine the status of Montana collections.
- ARTEMISIA LONGILOBA** (Osterh.) Beetle (Asteraceae) Reported for Beaverhead, Madison, and Deer Lodge cos. by Morris et al. (1976); however, we have been unable to locate any specimens to verify this report.
- ARTEMISIA TILESII** Ledeb. var. **UNALASKENSIS** Bess. (Asteraceae) Cronquist (1955) reports this species for western Montana; however, it is difficult to distinguish from *A. ludoviciana* var. *latiloba*. More information on the taxonomy and distribution of this plant in Montana is needed.
- ASTER SIMPLEX** Willd. var. **RAMOSISSIMUS** (T. & G.) Cronq. (Asteraceae) Reported for Montana by Great Plains Flora Association (1977); however, we have been unable to locate any specimens.
- ASTRAGALUS MISER** Dougl. var. **CRISPATUS** (Jones) Cronq. (Fabaceae) Reported for Beaverhead County by Barneby (1964), and known from two collections from Madison County (*Hitchcock and Muhlick 12532*, *Hitchcock 15825*, both at WTU). Additional information on distribution and abundance is needed to determine the current status in Montana.
- BULBOSTYLIS CAPILLARIS** (L.) Clarke (Cyperaceae) Reported for Carbon County by Dorn (1984). A collection by Booth (*S.n.*, 1941; MONT) was taken near Fromberg, on a "sandy bench in a valley." This species is weedy in the eastern U.S., and may be adventive in Montana (J. Rumely, pers. comm.).
- CALAMAGROSTIS KOELERIOIDES** Vasey (Poaceae) Collected once in Montana by Booth (1942; GNP Herbarium), from a "sandy roadside" near Lake McDonald, where it may have been adventive. Also reported from the Little Rocky Mountains by Ramsden (WESTECH, Helena), but we have been unable to locate any specimens to verify this report.
- CALAMAGROSTIS SCOPULORUM** Jones (Poaceae) Described as "doubtfully in Montana as reported" by Hitchcock and Cronquist (1973). The identity of a collection from Ravalli County (*P.F. Stickney 2207*, MONT) is uncertain.
- CAMISSONIA TANACETIFOLIA** (T. & G.) Raven This species is reported by Hitchcock and Cronquist (1973) (as *Oenothera tanacetifolia* T. & G.) for Montana, but we have been unable to locate any specimens to verify this report.
- CAREX AEMEA** Fern. (Cyperaceae) Reported by Standley (1921), Hitchcock and Cronquist (1973), and Dorn (1984) for Montana, but we have been unable to locate any specimens to verify these reports.
- CAREX EBENEA** Rydb. (Cyperaceae) The identity of two collections at MONTU (Ravalli (*K.H. Lackschewitz & T. Fageraas 827*) and Glacier (*L.H. Harvey 6664*) counties) is disputed. Both specimens were identified as *C. EBENEA* by F. J. Hermann; M. Colson confirmed the plant from Ravalli County, but was uncertain about the Glacier County collection. A. Cronquist does not recognize the occurrence of the species in Montana, and referred both collections to *C. haydeniana* Olney. Clarification of these taxonomic problems is needed.
- CAREX EBURNEA** Boott (Cyperaceae) This inconspicuous species is known from three widely separated areas in Montana. It may be more common than these records indicate. More information on the distribution of this species is needed.
- CAREX JONESII** Bailey (Cyperaceae) Reported for Montana by Hermann (1970). The identity of a collection by K. Lackschewitz (MONTU?) is apparently disputed.
- CAREX MICROGLOCHIN** Wahl. (Cyperaceae) This plant is reported for western Montana by Hermann (1970); however, we have been unable to locate specimens to verify this report.
- CAREX STRAMINIFORMIS** Bailey (Cyperaceae) Reported for Montana by Hermann (1970), Hitchcock and Cronquist (1973), and Dorn (1984), but we have not been able to locate any specimens to verify these reports.
- CAREX TINCTA** (Fern.) Fern. (Cyperaceae) Known only from a roadside collection near Yellow Bay, Flathead Lake, in Lake County (Hermann 1970), where it has not been relocated; the status of this species in Montana is currently unknown.
- CLAYTONIA LANCEOLATA** Pursh var. **FLAVA** Wels. (Portulacaceae). Recent taxonomic studies indicate that this plant may be more common than previously thought.
- CORDYLANTHUS CAPITATUS** Nutt. (Scrophulariaceae) Reported for southwest Montana by Dorn (1984); however, we have been unable to locate specimens to verify this report.
- CRYPTANTHA HUMILIS** (Gray) Pays. (Boraginaceae) Reported for Beaverhead and Park cos. by Dorn (1984), but we have been unable to locate vouchers.
- CYPERUS ERYTHRORHIZOS** Muhl. (Cyperaceae) Reported for Missoula Co. by Dorn (1984), but we have been unable to locate vouchers.

PLANTS OF UNDETERMINED STATUS

ELEOCHARIS BELLA (Piper) Sven. (Cyperaceae) This species is very similar to the more common E. acicularis, and many specimens identified as the latter may be the former. Further work on identifications is needed.

ERIGONUM BELLIDIATRUM Nutt. (Asteraceae) Reported for Yellowstone County by Dorn (1984), but we have been unable to locate any specimens to verify this report.

ERIGONUM CAESPITOSUM Nutt. (Polygonaceae) The identification of two collections at MONT (Ryerson and Vogel 554, W.E. Booth s.n.) is uncertain. Dorn (1984) reports this species from southern Montana, but J. Reveal (pers. comm.) states that it does not occur in Montana.

ERIGONUM CHRYSOCEPHALUM Gray (Polygonaceae) Reported for southwestern and southcentral Montana by Dorn (1984). Taxonomic problems are involved.

ERIGONUM UMBELLATUM var. **AUREUM** (in ed. ?) (Polygonaceae) This is currently an undescribed and unpublished taxon reported to us by James Reveal.

ELEOCHARIS FLAVESCENS (Poir.) Urban (Cyperaceae) Reported for Montana by Dorn (1984) and Hitchcock and Cronquist (1973), but we have been unable to locate any specimens to verify these reports.

ERIPHORUM SCHEUCHZERI Hoppe (Cyperaceae) This species is reported for Montana by Hitchcock and Cronquist (1973) and for Carbon Co. by Dorn (1984), but we have not been able to locate any specimens to verify these reports.

GEUM CANADENSE Jacq. (Rosaceae) More information on distribution and abundance is needed to determine the status of this species in Montana. Reported for north-central and northeastern Montana by Dorn (1984).

GEUM ROSSII (R.) Br. var. **ROSSII** (Rosaceae) Reported from the Mission Range in Lake County by Hitchcock and Cronquist (1973). Further information on distribution and abundance is needed to determine the status of this variety in Montana.

GNAPHALIUM PURPUREUM L. (Asteraceae) There is one collection of this species from Missoula Co. in 1917 (Hawkins s.n., MONT). It has not been collected in Montana in the past 70 years. Cronquist (1955) reports that this is a weedy American species; thus, it may be adventive in Montana.

GRINDLIA NANA Nutt. (Asteraceae) There are collections and reports of this species from northwest Montana; however, specimens are difficult to distinguish from the more common G. squarrosa. Further information on the taxonomy and distribution of this plant in Montana is needed.

HALIMOLOBOS VIRGATA (Nutt.) Schulz (Brassicaceae) This species has been recently collected in Liberty and Sheridan counties, but additional information on distribution and abundance is needed to determine its status.

HEMICARPHA DRUMMONDII Nees (Cyperaceae) Reported from Carbon County by Dorn (1984). A single collection by Booth (s.n., 1941; MONT) was taken near Fromberg, but additional information on distribution and abundance is needed to determine the current status in Montana.

HIEROCHLOE ALPINA (Sw. ex Willd.) R. & S. (Poaceae) Reported for northern Montana by Hitchcock and Cronquist (1973), but we have been unable to locate any specimens to verify this report.

HYMENOPAPPUS FILIFOLIUS Hook. var. **IDAHOENSIS** Turner (Asteraceae) The identification of many of our specimens is uncertain.

HYMENOPAPPUS FILIFOLIUS Hook. var. **LUTEUS** (Nutt.) Turner (Asteraceae) The identification of many of our specimens is uncertain.

LEPIDIUM MONTANUM Nutt. (Brassicaceae) In Montana, this species is known only from roadside habitats in Beaverhead Co. Although native further south, this species may be adventive in Montana.

LIGUSTICUM PORTERI Coulter & Rose (Apiaceae) Reported for Carbon Co., but we have been unable to locate vouchers.

MUHLENBERGIA MINUTISSIMA (Steud.) Swallen (Poaceae) Reported for Gallatin County by Dorn (1984), based on a collection by Booth (s.n., 1941; MONT). This specimen was taken from a roadside near Belgrade, where it may have been adventive.

MUHLENBERGIA MONTANA (Nutt.) Hitchc. (Poaceae) The location of a collection by Payne (collection number unknown; MONT) is unknown.

NAVARRERIA DIVARICATA (Torr.) Greene (Polemoniaceae) This plant is reported for Montana by Hitchcock and Cronquist (1973) and Dorn (1984), but we have not seen any specimens to verify these reports.

OENOTHERA ELATA H.B.K. ssp. **HIRSUTISSIMA** Gray (Onagraceae) A specimen from Valley Co. appears to be this species, but it would be greatly disjunct from the currently known range of the species. Determination of this specimen is necessary.

OENOTHERA PALLIDA Lindl. var. **PALLIDA** (Onagraceae) A recent taxonomic revision indicates that our specimens may be composed of two taxa, O. pallida and O. latifolia (Rydb.) Munz. Further taxonomic clarification is needed.

PLANTS OF UNDETERMINED STATUS

OXYTROPIS CAMPESTRIS (L.) DC. var. **COLUMBIANA** (St. John) Barneby (Fabaceae) Rupert Barneby (personal communication) believes that this taxon should be considered synonymous with the more common O. campestris var. gracilis. Further taxonomic work is required to determine the correct status for this plant.

PHYSALIS HETEROPHYLLA Nees (Solanaceae) This species is reported for Powder River County by Great Plains Flora Association (1977), but we have not located any specimens.

PHYSALIS PUMILA Nutt. [= P. hispida (Waterf.) Cronq.] (Solanaceae) Reported for Fergus Co. by Dorn (1984), but we have been unable to locate specimens to verify this report. Fergus Co. is way outside the range of P. pumila given by Great Plains Flora Association (1977); thus, if the report is correct, this species may be adventive in Montana.

PRIMULA ALCALINA Cholewa & Henderson (Primulaceae) A white-flowered primrose collected near Monida (Rose 471 MONTU) has been determined to be this species; however, repeated searches of the area have located only populations of the closely related and more common P. incana. It is uncertain whether P. alcalina is or ever was in Montana.

SAXIFRAGA OREGANA Howell var. **OREGANA** (Saxifragaceae) All Montana specimens appear to be intermediate between this variety and the more common var. montanensis (Small) Hitchc.

SELAGINELLA DENSE Rydb. var. **STANDLEYI** (Maxon) Tryon (Selaginellaceae) More information is needed on the distribution of this species in Montana.

SENECIO PAUCIFLORUS Pursh (Asteraceae) Reported for Granite Co. by Dorn (1984), but specimens from MONTU are on loan.

SENECIO HYPERBOREALIS Greenm. (Asteraceae) This species has been collected in Glacier Co. (Barkley 1978); however, many authorities consider it to be synonymous with the more common S. resedifolius. Further information on the distribution and taxonomy of this taxon is needed.

SOLIDAGO SPARSIFLORA Gray (Asteraceae) Reported for Carter and Wibaux counties by Dorn (1984). A specimen at MONT (69723, collector unknown) was taken in Stillwater County, but additional information on distribution and abundance is needed to determine the current status in Montana.

SOLIDAGO SPATHULATA DC. var. **NANA** (Gray) Cronq. (Asteraceae) The identification of specimens at MONTU is uncertain.

SPARGANIUM ANDROCLADUM (Engelm.) Morong (Sparganiaceae) This eastern species is reported for Gallatin Co. by Dorn (1984) and may be adventive in our area.

SPOROBOLUS VAGINIFLORUS (Torrey ex Gray) Wood (Poaceae) Reported for Big Horn County by Dorn (1984), based on a collection by Booth (s.n., 1941; MONT). This specimen was taken along a roadside, where it may have been adventive.

STIPA LEMMONII (Vasey) Scribner (Poaceae) This species is reported for Montana by Hitchcock and Cronquist (1973) and Dorn (1984), but we have not been able to locate a specimen to verify these reports.

STIPA LETTERMANII Vasey (Poaceae) Reported for Gallatin County by Dorn (1984), and southern Montana by Hitchcock and Cronquist (1973). A collection at MONTU (Peterson and Evanko 101390, 1950) was taken in Madison County, and a recent collection (Collins 732, 1983; RM) was taken in Big Horn County. The identifications of several specimens at MONT, from Gallatin and Carbon counties, need to be verified (J. Rumely, pers. comm.).

STIPA THURBERIANA Piper (Poaceae) A single collection (Booth s.n., 1943; MONT) was taken in Park County, but additional information on distribution and abundance is needed to determine the current status in Montana.

TOWNSENDIA LEPTOTES (Gray) Osterh. (Asteraceae) Reported for Madison County by Dorn (1984), but we have been unable to locate any specimens to verify this report.

TOWNSENDIA NUTTALLII Dorn (Asteraceae) Some Montana collections may be referable to this recently described species. Further taxonomic work is needed.

TRADESCANTIA BRACTEATA Small (Commelinaceae) Reported for Montana by the Great Plains Flora Association (1986) and for Custer Co. by Dorn (1984). Ronald McGregor (pers. comm.) believes that Montana specimens from Custer and Carter cos. are best referred to T. occidentalis. Further information on the taxonomy and distribution of this species in Montana is needed.

TRisetum ORTHOCHAETUM Hitchc. (Poaceae) This taxon appears to be a sterile interspecific hybrid between T. canescens Buckl. and T. wolfii Vasey. Known originally only from the type locality at Lolo Hot Springs in Missoula County, it was rediscovered in the adjacent Granite Creek drainage in 1986. Studies of seed viability and morphology support the theory of hybrid origin.

VACCINIUM OVALIFOLIUM Smith (Ericaceae) Reported for Montana by Hitchcock and Cronquist (1973), but we have been unable to locate any specimens to verify this report.

VERBENA BIPINNATIFIDA Nutt. (= Glanduliera bipinnatifida (Nutt.) Nutt.) (Verbenaceae) Reported for northeastern Montana by Dorn (1984), but we have been unable to locate any specimens to verify this report.

PLANTS OF UNDETERMINED STATUS

VERBESINA ENCELIOIDES (Cav.) Benth. & Hook. ex Gray (Asteraceae) Reported for Beaverhead County by Dorn (1984). It is not listed as occurring in Montana, and is described as "casually introduced" outside the southern Great Plains, by Great Plains Flora Association (1986). A Beaverhead County collection by Booth (1952, s.n.) was from a weedy area near the refuge headquarters at Red Rock Lakes NWR, where it was probably adventive.

VERNONIA FASCICULATA Michx. (Asteraceae) Reported for Montana by Great Plains Flora Association (1986), but we have been unable to locate specimens to verify this report.

VIBURNUM OPULUS L. (Caprifoliaceae) Although this species is thought to be native in northern Idaho, Montana populations near Missoula may all be escaped from cultivation.

VIOLA PEDATIFIDA G. Don (Violaceae) Reported for eastern Montana by Dorn (1984), but we have been unable to locate any specimens to verify this report.

ZIZIA AUREA (L.) Koch (Apiaceae) Reported for Flathead Co. by Dorn (1984); the specimen was actually taken in Cascade Co. or Chouteau Co., but no other information is available.

Taxa Considered for Listing but Rejected

Taxa followed by an asterisk rejected in 1989, all others rejected by the Montana Rare Plant Project (Lesica et al. 1984).

ACERACEAE

Acer glabrum var. douglasii (Hook.) Dip.
Acer grandidentatum Nutt.

ALISMATACEAE

Sagittaria cuneata Sheld.
Sagittaria latifolia Willd.

AMARANTHACEAE

Amaranthus arenicola Johns.*

APIACEAE

Angelica dawsonii Wats.
Angelica pinnata Wats.*
Angelica roseana Hend.
Berula erecta var. incisa (Torr.) Cronq.
Cicuta bulbifera L.
Cymopterus glaucus Nutt.
Cymopterus terebinthinus var. foeniculaceus
 (T. & G.) Cronq.
Ligusticum canbyi Coult. & Rose
Ligusticum tenuifolium Wats.
Lomatium cusickii (Wats.) Coult. & Rose
Lomatium farinosum (Hook.) Coult. & Rose
Lomatium orientale Coult. & Rose
Lomatium sandbergii Coult. & Rose
Musineon vaginatum Rydb.
Orogenia fusiformis Wats.*
Osmorhiza longistylis (Torr.) DC. var. longistylis
Osmorhiza purpurea (Coult. & Rose) Suksd.
Sanicula graveolens Poepp.

ARISTOLOCHIACEAE

Asarum caudatum Lindl.

ASCLEPIADACEAE

Asclepias pumila (Gray) Vail
Asclepias verticillata L.

ASTERACEAE

Achillea sibirica Ledeb.*
Agoseris grandiflora (Nutt.) Greene
Agoseris heterophylla (Nutt.) Greene var.
heterophylla
Antennaria corymbosa E. Nels.
Antennaria monocephala DC.
Arnica alpina var. tomentosa (Macoun) Cronq.
Arnica amplexicaulis Nutt. var. amplexicaulis
Arnica chamissonis var. foliosa (Nutt.) Maquire
Arnica chamissonis var. interior Maguire
Arnica chamissonis var. maguirei (A. Nels.)
 Maguire*
Arnica diversifolia Greene
Arnica longifolia D. C. Eat.
Arnica mollis Hook.
Arnica parryi Gray var. parryi
Artemisia arbuscula var. longiloba (Oster.) Beetle
Artemisia lindleyana Bess.
Artemisia scopulorum Gray
Artemisia tripartita Rydb.
Aster ciliolatus Lindl.
Aster engelmannii (Eat.) Gray
Aster hesperius Gray
Aster novi-angliae L.
Aster oblongifolius Nutt.
Aster pansus (Blake) Cronq.
Aster pauciflorus Nutt.
Aster perelegans Nels. & Macbr.
Aster sibiricus var. meritus (A. Nels.) Raup
Aster subspicatus Nees
Bidens comosa (Gray) Wieg*
Bidens frondosa L.
Bidens vulgata Greene
Brickellia oblongifolia Nutt. var. oblongifolia
Chaenactis alpina (Gray) Jones
Cirsium canovirens (Rydb.) Petr.
Cirsium floodmanii (Rydb.) Arthur
Cirsium ochrocentrum Gray
Cirsium tweedyi (Rydb.) Petr.
Coreopsis atkinsoniana Dougl.
Crepis elegans Hook.
Crepis intermedia Gray
Crepis nana Rich. ssp. nana
Erigeron coulteri Porter
Erigeron filifolius Nutt. var. filifolius
Erigeron humilis Graham*
Erigeron lonchophyllus Hook.
Erigeron ochroleucus Nutt.
Erigeron philadelphicus L.
Erigeron pumilus var. euintermedius Cronq.
Erigeron pumilus var. gracilior Cronq.
Erigeron radicans Hook.
Erigeron speciosus var. macranthus (Nutt.) Cronq.
Erigeron tweedyi Canby
Erigeron ursinus D. C. Eat.
Eriophyllum lanatum (Pursh) Forbes var. lanatum
Gnaphalium chilense Spreng.
Haplopappus armerioides (Nutt.) Gray
Haplopappus carthamoides (Hook.) Gray var.
carthamoides
Haplopappus lanceolatus (Hook.) T. & G.
Haplopappus lanuginosus var. andersonii (Rydb.)
 Cronq.
Haplopappus lyallii Gray
Haplopappus suffruticosus (Nutt.) Gray
Haplopappus uniflorus (Hook.) T. & G. var.
uniflorus
Helianthella quinquenervis (Hook.) Gray
Helianthella uniflora var. douglasii (T. & G.)
 Weber
Helianthus maximiliani Schrad.
Helianthus rigidus (Cass.) Desf.
Hieracium canadense Michx.
Hulsea alga Gray
Hymenopappus filifolius var. idahoensis Turner*
Lactuca ludoviciana (Nutt.) Riddell
Liatris ligulistylis (A. Nels.) K. Schum.
Madia exigua (J. E. Smith) Gray
Madia gracilis (J. E. Smith) Keck
Microseris nigrescens Henderson
Microseris troximoides Gray
Petasites sagittatus (Banks) Gray
Saussurea americana Eat.
Senecio crassulus Gray
Senecio dimorphophyllus var. paysonii T. M. Barkley
Senecio foetidus Howell
Senecio hydrophilus Nutt.
Senecio indecorus Greene
Senecio lugens Rich.
Senecio megacephalus Nutt.
Senecio pauciflorus Pursh
Senecio plattensis Nutt.
Senecio resedifolius Less.
Senecio sphaerocephalus Greene
Senecio werneriaefolius Gray

ASTERACEAE (cont.)

Solidago graminifolia var. major (Michx.) Fern.
Solidago nana Nutt.
Stephanomeria runcinata Nutt.
Taraxacum ceratophorum (Ledeb.) DC.
Tetradymia spinosa H. & A.
Townsendia exscapa (Rich.) Porter
Townsendia montana Jones var. montana
Vernonia fasciculata var. corymbosa (Schwein.)
 S. B. Jones*
Viguiera multiflora (Nutt.) Blake var. multiflora
Wyethia amplexicaulis Nutt.
Wyethia helianthoides Nutt.

BALSAMINACEAE

Impatiens ecalcarata Blank.
Impatiens noli-tangere L.

BERBERIDACEAE

Berberis aquifolium Pursh

BORAGINACEAE

Amsinckia lycopsoides Lehm.*
Amsinckia menziesii (Lehm.) Nels. & Macbr.
Cryptantha ambigua (Gray) Greene
Cryptantha kelseviana Greene
Cryptantha nubigena (Greene) Pays.
Cryptantha spiculifera (Piper) Pays.*
Cryptantha watsonii (Gray) Greene
Hackelia cinerea (Piper) Johnston.
Hackelia deflexa var. americana (Gray) Fern. &
 Johnston.
Hackelia diffusa (Lehm.) Johnston.*
Hackelia patens (Nutt.) Johnston. var. patens
Mertensia longiflora Greene
Mertensia paniculata var. borealis (Macbr.) Will.
Mertensia perplexa Rydb.
Mertensia viridis A. Nels.
Myosotis laxa Lehm.

BRASSICACEAE

Arabis furcata Wats.
Arabis lyallii Wats.
Arabis microphylla Nutt. var. microphylla
Arabis microphylla var. saximontana Rollins*
Arabis puberula Nutt.*
Arabis sparsiflora var. subvillosa (Wats.) Rollins
Cardamine pensylvanica Muhl.
Cardamine rupicola (Rydb.) Hitchc.
Descurainia richardsonii (Sweet) Schulz
Draba aurea Vahl
Draba brachycarpa Nutt.*
Draba crassa Rydb.*
Draba crassifolia R. Gray.
Draba lanceolata Royle
Draba oreibata Macbr. & Pays.*
Draba praealta Greene
Draba reptans (Lam.) Fern var. reptans
Draba reptans var. selliifera (Schulz) Hitchc.
Erysimum repandrum L.
Lepidium ramosissimum Nels.
Lepidium virginicum L.
Lesquerella alpina var. condensata (Nels.) Hitchc.
Lesquerella alpina var. laevis (Pays.) Hitchc.
Lesquerella arenosa (Rich.) Rydb. var. arenosa
Lesquerella curvipes Nels.
Lesquerella occidentalis Wats.*
Physaria geyeri (Hook.) Gray var. geyeri
Physaria saximontana Rollins*
Rorippa islandica (Oed.) Borbas
Thelypodium sagittatum var. crassicaepum Pays.*

CALLITRICHACEAE

Callitriche anceps Fern.
Callitriche heterophylla Pursh

CAMPANULACEAE

Campanula parryi var. idahoensis McVaugh
Campanula scabrella Engelm.
Campanula uniflora L.
Lobelia kalmii L.
Triodanis leptocarpa (Nutt.) Nieuwl.
Triodanis perfoliata (L.) Nieuwl.

CAPRI FOLIACEAE

Lonicera caerulea L.
Viburnum edule (Michx.) Raf.
Viburnum opulus var. americana Ait.

CARYOPHYLLACEAE

Arenaria aculeata Wats.
Arenaria capillaris var. americana (Mag.) Davis
Arenaria macrophylla Hook.
Arenaria nuttallii Pax var. nuttallii
Arenaria rossii var. apetala Maguire
Cerastium nutans Raf.
Lychnis apetala var. montana (Wats.) Hitchc.*
Lychnis drummondii (Hook.) Wats.
Lychnis kingii Wats.*
Sagina saginoides (L.) Britt.
Silene douglasii Hook. var. douglasii
Silene oregana Wats.
Silene repens var. australe Maguire
Stellaria americana (Porter) Standl.
Stellaria longifolia Muhl.
Stellaria nitens Nutt.
Stellaria obtusa Engelm.
Stellaria simcoeii (Howell) Hitchc.*
Stellaria umbellata Turcz.

CERATOPHYLLACEAE

Ceratophyllum demersum L.

CHENOPODIACEAE

Atriplex powellii Wats.
Chenopodium fremontii Wats.
Chenopodium rubrum L.
Kochia americana Wats.
Suaeda intermedia Wats.

CONVOLVULACEAE

Evolvulus nuttallianus R. & S.

CRASSULACEAE

Sedum rhodanthum Gray
Sedum spathulifolium Hook.
Tillaea aquatica L.*

CUSCUTACEAE

Cuscuta pentagona Engelm.*

CYPERACEAE

Carex albonigra
Carex aperta Boott
Carex atherodes Spreng.
Carex atrata var. atroscuama (Mack.) Cronq.
Carex backii Boott
Carex bebbii Olney
Carex bipartita All.
Carex breweri var. paddoensis (Suksd.) Cronq.
Carex brunnescens (Pers.) Poir
Carex buxbaumii Wahl.
Carex capillaris L.
Carex concinna R. Br.
Carex crawfordii Fern.
Carex cusickii Mack.
Carex diandra Schrank
Carex dioica var. gynocrates (Wormsk) Ostenf.
Carex eburnea Boott*
Carex flava L.
Carex heliophylla Mack.

CYPERACEAE (cont.)

Carex hystericina Muhl.
Carex interior Bailey
Carex leporina L.
Carex leptalea Wahl.
Carex limnophila Herm.
Carex limosa L.
Carex norvegica Retz.
Carex obtusata Lilj.
Carex oederi var. viridula (Michx.) Kuek.
Carex pachystachya Cham.
Carex parryana Dewey
Carex podocarpa R. Br.
Carex praeceptorum Mack.
Carex rupestris All.
Carex sartwellii Dewey
Carex saxatilis L.*
Carex saximontana Mack.
Carex scirpoidea var. pseudoscirpoidea (Rydb.) Cronq.
Carex scirpoidea Michx. var. scirpoidea
Carex scirpoidea var. stenochlaena Holm
Carex siccata Dewey
Carex simulata Mack.
Carex tenera Dewey
Carex vesicaria var. major Boott
Carex vulpinoidea Michx.
Carex xerantica Bailey
Cyperus aristatus Rottb.
Dulichium arundinaceum (L.) Britt.
Eleocharis ovata (Roth) R. & S.
Eleocharis tenuis (Willd.) Schultes
Eriophorum brachyantherum Trautv. & Mey.
Eriophorum gracile Koch
Kobresia myosuroides (Will.) Fiori
Scirpus atrovirens Willd. var. atrovirens*
Scirpus fluviatilis (Torr.) Gray
Scirpus maritimus var. padulosus (A. Nels.)
Scirpus olneyi Gray
Scirpus pallidus (Britt.) Fern.

DROSERACEAE

Drosera rotundifolia L.

ELATINACEAE

Elatine americana (Pursh) Arnott*
Elatine triandra Schkuhr

EQUISETACEAE

Equisetum X ferrissii Clute*
Equisetum fluviatile L.
Equisetum X nelsonii (A. A. Eat.) Schaffn.
Equisetum palustre L.
Equisetum scirpoides Michx.
Equisetum sylvaticum L.
Equisetum X trachyodon A. Br.*
Equisetum variegatum Schleich. var. variegatum

ERICACEAE

Arctostaphylos pungens H. B. K.
Cassiope tetragona var. saximontana (Small) Hitchc.
Chimaphila menziesii (R. Br.) Spreng.
Monotropa uniflora L.

EUPHORBIACEAE

Euphorbia missurica var. intermedia (Engelm.) L. Wheeler
Euphorbia serpens H. B. K.

FABACEAE

Astragalus atropyrescens Coult. & Fish.
Astragalus ceramicus var. filifolius (Gray) Herm.
Astragalus cibarius Sheld.

Astragalus kentrophyta var. implexus (Canby) Barneby

Astragalus kentrophyta Gray var. kentrophyta
Astragalus miser var. praeterius Barneby
Astragalus purshii var. concinus Barneby
Hedysarum alpinum var. americanum Michx.
Hedysarum boreale Nutt.*
Hedysarum occidentale Greene
Lathyrus palustris L.
Lotus purshianus (Benth.) Clem. & Clem.
Lupinus argenteus var. depressus (Rydb.) Hitchc.
Lupinus lepidus var. utahensis (Wats.) Hitchc.
Oxytropis besseyi var. argophylla (Rydb.) Barneby
Oxytropis parryi Gray*
Oxytropis viscida Nutt.
Psoralea lanceolata Pursh
Trifolium beckwithii Brew.
Trifolium dasyphyllum T. & G.
Trifolium nanum Torr.
Trifolium parryi Gray
Trifolium wormskioldii Lehm.
Trifolium variegatum Nutt.

FUMARIACEAE

Dicentra uniflora Kell.

GENTIANACEAE

Frasera albicaulis Dougl. var. albicaulis
Gentiana algida Pall.
Gentiana detonsa var. unicaulis (Nels.) Hitchc.
Gentiana propinqua Rich.*

GROSSULARIACEAE

Ribes hendersonii Hitchc.

HYDROCHARITACEAE

Elodea nuttallii (Planch.) St. John*

HYDROPHYLLACEAE

Hesperochiron californicus (Benth.) Wats.
Hesperochiron pumilus (Griseb.) Porter
Phacelia franklinii (R. Br.) Gray
Phacelia glandulosa Nutt.
Phacelia hastata var. leptosepala (Rydb.) Cronq.
Phacelia lyallii (Gray) Rydb.
Romanzoffia sitchensis Bong.

HYPERICACEAE

Hypericum anagalloides C. & S.
Hypericum majus (Gray) Britt.

ISOETACEAE

Isoetes bolanderi Engelm.
Isoetes echinospora Dur.
Isoetes howellii Engelm.
Isoetes setacea Lam.*

JUNCACEAE

Juncus articulatus L.
Juncus balticus Willd. var. balticus
Juncus biglumis L.*
Juncus drummondii var. subtriflorus (Mey.) Hitch.
Juncus effusus var. compactus Lejeune & Court.
Juncus filiformis L.
Juncus tracyi Rydb.
Luzula arcuata (Wahl.) Wahl.
Luzula campestris var. multiflora (Ehr.) Celak.
Luzula piperi (Cov.) Jones

LAMIACEAE

Agastache foeniculaceum (Pursh) O. Ktze.
Dracopcephalum parviflorum Nutt.
Lycopus asper Greene
Lycopus uniflorus Michx.
Mentha spicata L.

LAMIACEAE (cont.)
Physostegia parviflora Nutt.
Scutellaria angustifolia Pursh
Scutellaria lateriflora L.

LEMNACEAE
Lemna trisulca L.
Spirodela polyrhiza (L.) Schleid.

LENTIBULARIACEAE
Utricularia minor L.

LILIACEAE
Calochortus eurycarpus Wats.
Calochortus macrocarpus Dougl.
Calochortus gunnisonii Wats.
Zigadenus paniculatus (Nutt.) Wats.

LIMNANTHACEAE
Floerkea proserpinacoides Willd.

LORANTHACEAE
Arceuthobium americanum Nutt.
Arceuthobium campylopodum Engelm.
Arceuthobium douglasii Engelm.
Arceuthobium laricis (Piper) St. John

LYCOPODIACEAE
Lycopodium clavatum L.
Lycopodium selago L.
Lycopodium sitchense Rupr.

MARSILEACEAE
Marsilea vestita Hook. & Grev.

MENYANTHACEAE
Menyanthes trifoliata L.

NAJADACEAE
Najas flexilis (Willd.) Ros. & Schm.

NYCTAGINACEAE
Abrotia micrantha Torr.

NYMPHAEACEAE
Nuphar variegatum Engelm.

ONAGRACEAE
Boisduvalia glabella (Nutt.) Walp.
Epilobium glaberrimum var. fastigiatum (Nutt.)
 Trel.

Epilobium latifolium L.
Epilobium leptophyllum Raf.
Epilobium minutum Lindl.
Epilobium palustre L.
Gayophytum diffusum T. & G.
Gayophytum racemosum T. & G.
Oenothera breviflora T. & G.
Oenothera flava (Nels.) Garrett
Oenothera subcaulis (Pursh) Garrett

OPHIOGLOSSACEAE
Botrychium boreale Milde
Botrychium dusenii (Christ) Als.*
Botrychium lanceolatum (Gmel.) Angstr.
Botrychium lunaria (L.) Swartz var. lunaria
Botrychium multifidum (Gmel.) Trevis.
Botrychium simplex E. Hitchc.

ORCHIDACEAE
Corallorhiza mertensiana Bong.
Corallorhiza striata Lindl.
Corallorhiza trifida Chat.
Corallorhiza wisteriana Conrad
Cypripedium montanum Dougl.

Habenaria elegans (Lindl.) Boland.
Habenaria hyperborea (L.) R. Br.
Habenaria obtusata (Banks) Richards.
Habenaria orbiculata (Pursh) Torr.
Habenaria saccata Greene
Habenaria sparsiflora Wats.
Habenaria viridis var. bracteata (Muhl.) Gray
Listera borealis Morong.
Listera caurina Piper
Listera convallarioides (Sw.) Nutt.

PAEONIACEAE
Paeonia brownii Dougl.

PAPAVERACEAE
Argemone polyanthemus (Fedde) G. Owenby*

PLANTAGINACEAE
Plantago canescens Adams
Plantago eriopoda Torr.
Plantago hirtella H.B.K.
Plantago rugelii Dene.
Plantago tweedyi Gray

POACEAE
Agrostis diegoensis Vasey
Agrostis humilis Vasey
Agrostis idahoensis Nash
Agrostis thurberiana Hitchc.
Agrostis variabilis Rydb.
Alopecurus carolinianus Walt.
Alopecurus geniculatus L.
Andropogon hallii Hack.
Aristida fendleriana Steud.
Aristida longiseta Steud.
Bromus carinatus H. & A.
Bromus squarrosus L.
Calamagrostis canadensis var. pallida (Vasey &
 Scribn.) Steb.
Calamagrostis inexpansa Gray var. inexpansa
Calamagrostis neglecta (Ehrr.) G.M. & S. var. neglecta
Danthonia parryi Scribn.
Danthonia spicata var. pinetorum Piper
Deschampsia danthonioides (Trin.) Munro
Elymus triticoides Buckl. var. triticoides
Elymus virginicus L.
Eragrostis hypnoides (Lam.) B.S.P.
Festuca baffinensis Polunin
Festuca occidentalis Hook.
Festuca subulata Trin.
Festuca viridula Vasey
Glyceria borealis (Nash) Batch.
Glyceria elata (Nash) Jones
Helictotrichon hookeri (Scribn.) Henrard.
Leptochloa fascicularis (Lam.) Gray
Melica smithii (Porter) Vasey
Melica subulata var. pammelii (Scribn.) Hitch.
Muhlenbergia andina (Nutt.) Hitchc.*
Muhlenbergia filiformis (Thurb.) Rydb.
Muhlenbergia glomerata (Willd.) Trin.
Muhlenbergia racemosa (Michx.) B.S.P.
Oryzopsis micrantha (Trin. & Rupr.) Thurb.
Panicum scribnerianum Nash
Poa arida Vasey
Poa canbyi (Scribn.) Piper
Poa grayana Vasey
Poa leptocoma Trin.
Poa lettermanii Vasey
Poa nevadensis Vasey
Poa pattersonii Vasey
Poa stenantha Trin.
Poa trivialis L.
Puccinellia pauciflora var. holmii (Beal) Hitch.
Puccinellia pauciflora var. microtheca (Buckl.)
 Hitchc.*

POACEAE (cont.)

Schizachne purpurascens (Torr.) Swallen
Sphenopholis obtusata (Michx.) Scribn.
Stipa lettermanii Vasey
Stipa occidentalis var. minor (Vasey) Hitch.
Trisetum cernuum Trin.
Trisetum wolfii Vasey

POLEMONIACEAE

Collomia debilis var. camporum Pays.
Collomia grandiflora Dougl.
Gilia tenerima Gray
Leptodactylon pungens (Torr.) Nutt.
Navarretia intertexta var. propinqua (Suksd.) Brand.
Phlox andicola Nutt.
Phlox diffusa var. longistylis (Wherry) Peck
Phlox speciosus Pursh
Polemonium micranthum Benth.

POLYGALACEAE

Polygala verticillata L.

POLYGONACEAE

Eriogonum androsaceum Benth.
Eriogonum cernuum Nutt.
Eriogonum flavum var. polyphyllum (Small) Jones
Eriogonum mancum Rydb.
Eriogonum umbellatum Torr. var. umbellatum
Polygonum douglasii Greene
Polygonum engelmannii Greene
Polygonum kelloggii Greene
Polygonum minimum Wats.
Polygonum pennsylvanicum L.*
Polygonum phytolacae-folium Meisn.
Polygonum polygaloides Meisn.*
Polygonum punctatum Ell.
Polygonum sawatchense Small
Polygonum watsonii Small
Rumex acetosa L.*

POLYPODIACEAE

Athyrium disentifolium Tausch*
Aspidotes densa (Brack.) Lell.*
Asplenium viride Huds.
Cheilanthes feei Moore
Cheilanthes gracillima D.C. Eat.
Cryptogramma stelleri (Gmel.) Prantl
Dryopteris austriaca (Jacq.) Woyner
Pellaea breweri D.C. Eat.
Pellaea glabella var. occidentalis (E. Nels.) Butters
Polystichum andersonii Hopkins
Polystichum munitum (Kaulf.) Presl

PORTULACACEAE

Claytonia lanceolata var. multiscapa (Rydb.) Hitchc.
Claytonia megarhiza (Gray) Perry var. megarhiza
Lewisia triphylla (Wats.) Robins.
Montia chamissoi (Ledeb.) Robins. & Fern.
Montia cordifolia (Wats.) Pax & Hoffm.
Montia parvifolia (Moc.) Greene var. parvifolia
Montia sibirica (L.) Howell var. sibirica
Sparguea umbellata Torr. var. umbellata

POTAMOGETONACEAE

Potamogeton alpinus Balbis
Potamogeton amplifolius Tuck.
Potamogeton berchtoldii Fieb.
Potamogeton diversifolius Raf.
Potamogeton epihydrus Raf.
Potamogeton epiphyllus Fern.*
Potamogeton filiformis Pers.
Potamogeton foliosus var. macellus Fern.

Potamogeton foliosus Raf. var. foliosus*
Potamogeton zosteriformis Fern.

PRIMULACEAE

Androsace lehmanniana Spreng.
Dodecatheon jeffreyi Van Houtte
Lysimachia thrysisiflora L.
Primula incana Jones
Primula parryi Gray

RANUNCULACEAE

Aconitum columbianum var. ochroleucum A. Nels.
Anemone canadensis L.
Anemone occidentalis Wats.
Anemone parviflora Michx.
Aquilegia coerulea James var. coerulea
Aquilegia coerulea var. ochroleuca Hook.*
Aquilegia jonesii Parry
Caltha biflora var. rotundifolia (Huth) Hitchc.
Delphinium brownii Rydb.*
Delphinium depauperatum Nutt.
Delphinium glaucescens Rydb.
Delphinium nuttallianum var. fulvum Hitchc.
Myosurus aristatus Benth.
Myosurus minimus L.
Ranunculus alismaefolius Geyer var. alismaefolius
Ranunculus longirostris Godr.
Ranunculus natans var. intertextus (Greene) Benson
Ranunculus pennsylvanicus L.
Ranunculus populago Greene
Ranunculus pygmaeus Wahl.
Ranunculus subrigidus Drew
Thalictrum sparsiflorum var. saximontanum Boiv.
Tratvetteria carolinensis var. occidentalis (Gray) Hitchc.

RHAMNACEAE

Rhamnus purshiana DC.

ROSACEAE

Agrimonia striata Michx.
Amelanchier alnifolia var. seminintegrifolia (Hook.) Hitchc.
Ameleanchier sanguinea (Pursh) DC.
Chamaerhodos erecta (L.) Bunge
Crataegus chrysocarpa Ashe
Crataegus columbiana Howell var. columbiana
Crataegus succulenta Link. var. succulenta
Dryas drummondii Rich.
Geum rossii (R.Br.) Ser.
Ivesia tweedyi Rydb.
Kelseya uniflora (Wats.) Rydb.
Luetkea pectinata (Pursh) Kuntze
Petrophytum caespitosum (Nutt.) Rydb.
Potentilla biennis Greene
Potentilla concinna Rich.
Potentilla fissa Nutt.
Potentilla flabellifolia Hook.
Potentilla gracilis var. permollis (Rydb.) Hitchc.
Potentilla hookeriana Lehm.
Potentilla palustris (L.) Scop.
Potentilla nivea L.
Potentilla rivalis Nutt.
Prunus pennsylvanica Lightf.
Rubus acaulis Michx.
Rubus idaeus var. peramoenus (Greene) Fern.
Rubus leucodermis Dougl.
Rubus pedatus J.E. Smith
Rubus pubescens Raf.
Sanguisorba occidentalis Nutt.

RUBIACEAE

Galium cymosum Wieg.*
Galium palustre*

RUPIACEAE
Ruppia maritima L.

SALICACEAE

Salix barclayi Anderss.
Salix brachycarpa Nutt. var. brachycarpa
Salix candida Fluegge
Salix dodgeana Rydb.
Salix farriae Ball
Salix geyeriana Anderss. var. geyeriana
Salix glauca L.
Salix myrtilifolia Andress.
Salix slitchensis Sanson
Salix tweedyi (Bebb) Ball
Salix vestita Pursh
Salix wolfii var. idahoensis Ball

SAXIFRAGACEAE

Boykinia major Gray
Conimitella williamsii (Eat.) Rydb.
Heuchera glabra Willd.*
Heuchera richardsonii R.Br.
Leptarrhena pyrolifolia (D. Don) R. Br.
Mitella caulescens Nutt.
Mitella trifida Grah.
Parnassia kotzebuei Cham.
Parnassia palustris var. montanensis (Fern.& Rydb.) Hitchc.
Parnassia parviflora DC.
Saxifraga adscendens var. oregonensis (Raf.) Breit.
Saxifraga cernua L.
Saxifraga debilis Engelm.
Saxifraga ferruginea var. macounii Engl. & Irmsch.
Saxifraga flagellaris Willd.
Saxifraga integrifolia var. leptopetala (Suksd.) Engl. & Irmsch.
Saxifraga lyallii Engl.
Saxifraga mertensiana Bong.
Saxifraga occidentalis Wats. var. occidentalis
Saxifraga oppositifolia L.
Saxifraga oregana var. subpetala (E. Nels.) Hitchc.
Suksdorfia ranunculifolia (Hook.) Engelm.
Suksdorfia violacea Gray
Telesonix jamesii var. heucheriformis (Rydb.) Baci.
Tellina grandiflora (Pursh) Dougl.

SCHEUCHZERIAEAE

Scheuchzeria palustris L.

SCROPHULARIACEAE

Castilleja crista-gali Rydb.
Castilleja flava Wats.
Castilleja hispida var. acuta (Pennell) Owenby
Castilleja nivea Pennell & Owenby
Castilleja pulchella Rydb.
Castilleja rustica Piper
Chionophila tweedyi (Canby & Rose) Hend.
Gratiola neglecta Torr.
Limosella aquatica L.
Mimulus breweri (Greene) Rydb.
Mimulus dentatus Nutt.
Mimulus tilingii Regel var. tilingii
Mimulus washingtonensis Gand.
Pedicularis bracteosa var. canbyi (Gray) Cronq.
Pedicularis bracteosa var. silfolia (Rydb.) Cronq.
Pedicularis pulchella Pennell
Penstemon attenuatus var. pseudoprocerus (Rydb.) Cronq.
Penstemon cyaneus Pennell
Penstemon deustus Dougl. var. deustus
Penstemon eriantherus var. redactus Pennell & Keck
Penstemon glaber Pursh
Penstemon montanus Greene var. montanus
Penstemon nitidus var. polyphyllus (Pennell) Cronq.
Penstemon radicosus A./ Nels.

Rhinanthus crista-gali L.
Scrophularia lanceolata Pursh

Synthyris pinnatifida var. canescens (Pennell) Cronq.
Synthyris pinnatifida Wats. var. pinnatifida
Veronica anagallis-aquatica L.
Veronica cusickii Gray
Veronica catenata Pennell
Veronica peregrina var. xalapensis (H.B.K.) St. John & Warren
Veronica scutellata L.

SELAGINELLACEAE

Selaginella wallacei

SOLANACEAE

Physalis hederifolia Gray*
Physalis heterophylla Nees

SPARGANIACEAE

Sparganium minimum Fries
Sparganium angustifolium Michx.

TYPHACEAE

Typha angustifolia L.*

URTICACEAE

Parietaria pensylvanica Muhl.

VALERIANACEAE

Valeriana acutifolia var. pubicarpa (Rydb.) Cronq.

VIOLACEAE

Viola macloskeyi Lloyd
Viola palustris L.
Viola pedatifida G. Don*
Viola purpurea var. venosa (Wats.) Brain.

VERBENACEAE

Verbena stricta Vent.

VITACEAE

Parthenocissus quinquefolia (L.) Planch.
Parthenocissus vitacea (Knerr) Hitch
Vitis riparia Michx.
Vitis vulpina L.

ZANNICHELLIACEAE

Zannichellia palustris L.

Index to Taxa with Status
(Rejected Taxa are listed on pp. 80-85)

ADDOX MOSCHATELLINA 16	BOTRYCHUM PARADOXUM 12	CIRSIIUM NEOMEXICANUM 27
AGASTACHE CUSICKII 9	BRASENIA SCHREBERI 62	CIRSIIUM SUBNIVEUM 28
AGOSERIS AURANTIACA PURPUREA 76	BULBOSTYLIS CAPILLARIS 76	Cirsium utahense 27
AGOSERIS LACKSCHWITZII 16	CALAMAGROSTIS KOELERIOIDES 76	CLARKIA RHOMBOIDEA 28
AGROSTIS BOREALIS 68	CALAMAGROSTIS SCOPULORUM 76	CLAYTONIA LANCEOLATA FLAVA 76
ALLIUM ACUMINATUM 16	CALAMAGROSTIS TWEEDYI 22	CLEOME LUTEA 28
Allium douglasii columbianum 11	CALOCHORTUS BRUNEAUNIS 22	COLLOMIA TINCTORIA 28
ALLIUM COLUMBIANUM 11	Calochortus nuttallii 22	Comandra livida 64
ALLIUM FIBRILLUM 11	bruneaunis 22	CONIOSELINUM SCOPULORUM 28
ALLIUM PARVUM 16	CAMISSONIA ANDINA 22	CORDYLANTHUS CAPITATUS 76
ALLIUM SMILLIMUM 16	CAMISSONIA MINOR 22	CORDYLANTHUS RAMOSUS 69
ALLOTROPA VIRGATA 11	CAMISSONIA SCAPOIDEA 22	CORYDALIS SEMPERVIRENS 28
AMARANTHUS CALIFORNICUS 76	CAMISSONIA TANACETIFOLIA 76	CRYPTANTHA CANA 69
AMBROSIA ACANTHICARPA 76	CARDAMINE RUPICOLA 68	CRYPTANTHA FENDLERI 29
AMMANIA COCCINEA 16	CAREX AENEAE 76	CRYPTANTHA FLAVOCULATA 29
AMORPHA CANESCENS 60	CAREX AMPLIFOLIA 12	CRYPTANTHA HUMILIS 76
ANTENNARIA DENSIFOLIA 17	CAREX CAPITATA 68	CYPERUS ACUMINATUS 29
ANTENNARIA PULCHERRIMA 76	CAREX COMOSA 9	CYPERUS ERYTHRORHIZOS 77
AQUILEGIA BREVIYSTYLIA 17	CAREX CHORDORRHIZA 22	CYPERUS RIVULARIS 29
AQUILEGIA FORMOSA 17	CAREX CRAWEI 23	CYPERUS SCHWEINITZII 29
ARABIS FECUNDA 11	CAREX EBURNEA 76	CYPRIPEDIUM CALCEOLUS 29
ARABIS LYRATA 17	Carex eleusinoidea 23	CYPRIPEDIUM FASCICULATUM 12
ARCTOSTAPHYLOS PATULA 11	Carex enanderi 23	CYPRIPEDIUM PARVIFLORUM 29
ARENARIA KINGII 17	CAREX EURYCARPA 23	CYPRIPEDIUM PASSERINUM 30
ARTEMISIA LONGILOBA 76	Carex eurytachya 23	CYSTOPTERIS MONTANA 30
ARTEMISIA NORVEGICA 17	CAREX GRAVIDA 12	
ARTEMISIA PEDATIFIDA 68	Carex idahoae 23	DALEA ENNEANDRA 30
ARTEMISIA TILESII UNALASKENSIS 76	Carex incurviformis 23	DALEA VILLOSA 30
ASCLEPIAS STENOPHYLLA 18	CAREX JONESII 76	DELPHINIUM ANDERSONII 30
ASPENIUM TRICHOMANES 18	CAREX LENTICULARIS DOLIA 23	DELPHINIUM BURKEI 30
ASTER FRONDOSUS 18	CAREX LIVIDA 23	DELPHINIUM GEYERI 31
ASTER PTARMICOIDES 18	CAREX MARITIMA 23	DICANTHELIUM OLIGOSANTHES 31
ASTER SIMPLEX RAMOSISSIMUS 76	CAREX MICROGLOCHIN 76	DOWNINGIA LAETA 62
ASTRAGALUS ARETIOIDES 61	CAREX MISANDRA 68	Draba apiculata daviesiae 69
ASTRAGALUS ARGOPHYLLUS 18	CAREX MULTICOSTATA 24	DRABA APICULATA 31
ASTRAGALUS BARRII 61	CAREX NEUROPHORA 62	DRABA DAVIESIAE 69
ASTRAGALUS CERAMICUS APUS 18	CAREX OCCIDENTALIS 24	DRABA DENSIFOLIA 62
ASTRAGALUS CHAMAELUCE 11	CAREX PARRYANA IDAHOA 23	Draba densifolia apiculata 31
ASTRAGALUS CONVALLARIUS 19	CAREX PAUPERCULA 24	DRABA FLADNIZENSIS 31
Astragalus diversifolius 19	CAREX PETRICOSA 24	DRABA MACOUNII 31
ASTRAGALUS GEYERI 19	Carex plectocarpa 23	DRABA PORSILDII 31
ASTRAGALUS GRAYI 19	CAREX SCOPARIA 24	DRABA VENTOSA 32
ASTRAGALUS HYALINUS 68	CAREX STENOPTILA 24	DROSER A ANGLICA 62
ASTRAGALUS LENTIGINOSUS 61	CAREX STRAMINIFORMIS 76	DROSER A LINEARIS 32
ASTRAGALUS LEPTALEUS 19	CAREX SYNCHNOCEPHALA 9	DRYAS INTEGRIFOLIA 32
ASTRAGALUS MISER CRISPATUS 76	CAREX TENUIFLORA 25	DRYOPTERIS CRISTATA 32
ASTRAGALUS MOLYBDENUS 19	CAREX TINCTA 76	
ASTRAGALUS OREGANUS 19	CAREX TORREYI 25	ELATINE CALIFORNICA 63
ASTRAGALUS PLATYTROPIS 20	CAREX VALLICOLA 25	ELEOCHARIS BELLA 77
ASTRAGALUS RACEMOSUS 20	CASTILLEJA ANGUSTIFOLIA 69	ELEOCHARIS FLAVESCENS 77
ASTRAGALUS SCAPHOIDES 20	CASTILLEJA CERVINA 25	ELEOCHARIS ROSTELLATA 12
Astragalus sericeoleucus 61	CASTILLEJA COVILLEANA 25	ELEOCHARIS XYRIDIFORMIS 32
aretioidea 61	CASTILLEJA EXILIS 25	ELODEA LONGIVAGINATA 32
ASTRAGALUS TERMINALIS 61	CASTILLEJA GRACILLIMA 26	ELYMUS FLAVESCENS 33
ATHYSANUS PUSILLUS 20	CASTILLEJA LONGISPICA 26	ELYMUS INNOVATUS 33
ATRIplex TRUNCATA 20	CASTILLEJA OCCIDENTALIS 69	EPILOBIUM SUFFRUTICOSUM 63
	CASTILLEJA RUSTICA 62	EPIPACTIS GIGANTEA 12
	CEANOETHUS HERBACEUS 60	ERIGERON ALLOCOTUS 63
	CELASTRUS SCANDENS 26	ERIGERON ASPERGINEUS 33
	CENTAUURIUM EXALTATUM 26	ERIGERON BELLIDIATRUM 77
	CENTUNCULUS MINIMUS 26	ERIGERON EATONII 33
	CERCOCARPUS MONTANUS 26	ERIGERON EVERMANNII 33
	CHRYSOSPLENIUM TETRANDRUM 27	ERIGERON FLABELLIFOLIUS 69
	CHRYSOTHAMNUS LINIFOLIUS 27	ERIGERON FLAGELLARIUS 33
	CHRYSOTHAMNUS PARRYI MONTANUS 27	ERIGERON FORMOSISSIMUS 34
		ERIGERON GRACILIS 63
	CIRSIIUM BREVIYSTYLUM 27	ERIGERON LACKSCHWITZII 34
	CIRSIIUM LONGISTYLUM 27	ERIGERON LANATUS 70
		ERIGERON LEIOMERUS 34
		ERIGERON LINEARIS 34
		Erigeron brevicaulis canum 70
		ERIOGONUM CAESPITOSUM 77
		ERIOGONUM CAPISTRATUM 70

ERIOGONUM CHRYSOCEPHALUM 77
 Eriogonum chrysops 70
 ERIOGONUM X LAGOPUS 70
 Eriogonum ovalifolium celsum 70
 ERIOGONUM OVALIFOLIUM NEVADENSE 70
 Eriogonum pauciflorum canum 70
 ERIOGONUM PYROLIFOLIUM 70
 ERIOGONUM UMBELLATUM AUREUM 77
 ERIOGONUM UMBELLATUM STELLATUM 70
 ERIOPHORUM SCHEUCHZERI 77
 ERIOPHORUM VIRIDICARINATUM 34
 EUPATORIUM MACULATUM 34
 EUPATORIUM OCCIDENTALE 35
 EUPHRASIA ARCTICA 35

 Festuca ovina vivipara 35
 FESTUCA VIVIPARA 35
 Forsellesia nevadensis 9

 GAULTHERIA OVATIFOLIA 63
 GENTIANA AQUATICA 35
 Gentiana fremontii 35
 GENTIANA GLAUCA 13
 Gentiana macounii 35
 GENTIANA PROSTRATA 63
 Gentiana simplex 13
 Gentiana tenella 64
 Gentianella crinita macounii 35
 GENTIANOPSIS MACOUNII 35
 Gentianella simplex 13
 GENTIANELLA TENELLA 64
 GENTIANOPSIS SIMPLEX 13
 GEOCAULON LIVIDUM 64
 GEUM CANADENSE 77
 GEUM ROSSII ROSSII 77
 Gilia congesta crebrifolia 38
 GILIA INCONSPICUA 35
 GILIA LEPTOMERIA 36
 Gilia pumila 38
 Gilia sinuata tweedyi 35
 Gilia tweedyi 35
 Glandularia bipinnatifida 79
 GLOSSOPETALON NEVADENSE 9
 GNAPHALIUM PURPUREUM 77
 GOODYERA REPENS 36
 GRATIOLA EBRACTEATA 36
 GRAYIA SPINOSA 36
 GRINDELIA HOWELLII 64
 GRINDELIA NANA 77

 HALENIA DEFLEXA 36
 HALIMOLOBOS VIRGATA 77
 HAPLOPAPPUS ABERRANS 36
 Haplopappus macronema canescens 37
 HAPLOPAPPUS MACRONEMA LINEARIS 37
 HAPLOPAPPUS MACRONEMA MACRONEMA 37
 HAPLOPAPPUS MULTICAULIS 71
 HAPLOPAPPUS NANUS 37
 HAPLOPAPPUS PYGMAEUS 37
 HELENITUM HOOPSII 37
 HEMICARPHA DRUMMONDII 77
 HETERANTHERA DUBIA 37
 HETEROCOON RARIFLORUM 38
 HIEROCHLOE ALPINA 77
 HOWELLIA AQUATILIS 13
 HUTCHINSIA PROCUMBENS 38
 HYMENOPAPPUS FILIFOLIUS LUTEUS 77

 HYMENOXYS TORREYANA 71

 IDAHOA SCAPIGERA 38
 IPOMOPSIS CONGESTA CREBRIFOLIA 38
 IPOMOPSIS PUMILA 38
 Ipomopsis crebrifolia 38

 JUNCUS ACUMINATUS 38
 Juncus albens 39
 JUNCUS CASTANEUS 71
 JUNCUS COVILLEI COVILLEI 39
 JUNCUS COVILLEI OBTUSATUS 39
 JUNCUS HALLII 39
 JUNCUS TRIGLUMIS ALBESCENS 39
 JUNCUS TRIGLUMIS TRIGLUMIS 71

 KELLOGGIA GALIODES 39
 KOBRESIA MACROCARPA 39
 KOBRESIA SIMPLICIUSCULA 40
 KOCHIA AMERICANA 40
 KOENIGIA ISLANDICA 64

 LAGOPHYLLA RAMOSISSIMA 40
 LATHYRUS BIJUGATUS 40
 LEPIDIUM MONTANUM 77
 LEPTODACTYLON CAESPITOSUM 40
 LESQUERELLA CARINATA 40
 LESQUERELLA HUMILIS 41
 LESQUERELLA KLAUSII 64
 LESQUERELLA PAYSONII 61
 LEWISIA COLUMBIANA 41
 LEWISIA PYGMAEA NEVADENSIS 41
 LIGUSTICUM FILICINUM 64
 LIGUSTICUM PORTERI 77
 LILAEA SCILLOIDES 41
 LILIUM COLUMBIANUM 41
 Linanthastrum nuttallii 71
 LINANTHUS NUTTALLII 71
 LINARIA CANADENSIS 42
 LOBELIA SPICATA 42
 LOMATIUM BICOLOR 71
 LOMATIUM GEYERI 42
 LYCOPODIUM ALPINUM 42
 LYCOPODIUM INUNDATUM 42
 LYCOPODIUM OBSCURUM 42
 Lygodesmia spinosa 55

 Machaeranthera bigelovii 43
 MACHAERANTHERA COMMIXTA 43
 Machaeranthera glabriuscula 59
 MADIA MINIMA 43
 MAIANTHEMUM CANADENSE 43
 MALACOTHRIX TORREYI 43
 MENTZELIA MONTANA 43
 MENTZELIA NUDA 43
 MENTZELIA PUMILA 43
 MERTENSIA BELLA 44
 MIMULUS NANUS 44
 MIMULUS PRIMULOIDES 13
 MIMULUS SUKSDORFII 65
 MIRABILIS HIRSUTA 44
 MUEHLNBERGIA MINUTISSIMA 77
 MUEHLNBERGIA MONTANA 78
 MYOSOTIS VERNIA 9

 NAJAS GUADALUPENSIS 44
 NAVARRETTIA DIVARICATA 78
 NYMPHAEA TETRAGONA 13

 Oenothera andina 22
 OENOTHERA ELATA HIRSUTISSIMA 78
 Oenothera minor 22
 OENOTHERA PALLIDA IDAHOENSIS 13
 OENOTHERA PALLIDA 78
 Oenothera scapoidea 22
 OPHIOGLOSSUM VULGATUM 44
 ORCHIS ROTUNDIFOLIA 44
 Orobanche californica corymbosa 45
 OROBANCHE CORYMBOSA 45
 OROGENTIA LINEARIFOLIA 45
 OXYTROPIS CAMPESTRIS COLUMBIANA 78
 OXYTROPIS LAGOPUS CONJUGENS 72
 OXYTROPIS PODOCARPA 45

 Panicum lanuginosum 65
 PANICUM OCCIDENTALE 65
 Panicum oligosanthos 31
 Panicum scribnerianum 31
 PAPAVER KLUANENSIS 45
 PAPAVER PYGMAEUM 72
 Papaver radiculatum 72
 PEDICULARIS CONTORTA CTENOPHORA 72
 PEDICULARIS CONTORTA RUBICUNDA 72
 PEDICULARIS OEDERI 72
 PENSTEMON ANGUSTIFOLIUS 45
 PENSTEMON ATTENUATUS MILITARIS 45
 PENSTEMON CARYI 65
 PENSTEMON FLAVESCENS 72
 PENSTEMON LEMHIENSIS 14
 PENSTEMON PAYETTENSIS 46
 PENSTEMON WHIPPLEANUS 46
 Petalostemon villosus 30
 PETASITES FRIGIDUS 46
 Phacelia glandulifera 46
 PHACELIA INCANA 46
 PHACELIA IVESIANA 46
 Phacelia lutea scopulina 46
 PHACELIA SCOPULINA 46
 PHACELIA THERMALIS 47
 PHIPPSIA ALGIDA 73
 PHLOX ANDICOLA 65
 PHLOX KELSEYI MISSOULENSIS 65
 Phlox missoulensis 65
 PHYSALIS HETEROPHYLLA 78
 Physalis hispida 78
 PHYSALIS PUMILA 78
 PHYSARIA ACUTIFOLIA 73
 Physaria australis 73
 PHYSOCARPUS MONOGYNUS 73
 PINGICULA VULGARIS 73
 Pinguicula vulgaris macrocaras 73
 PLAGIOBOTHRYUS LEPTOCLADUS 47
 PLATYSCHUKHRIA INTEGRIFOLIA 73
 Polygonum austiniae 47
 POLYGONUM DOUGLASII AUSTINIAE 47
 POLYSTICHUM KRUCKEBERGII 47
 POLYSTICHUM SCOPULINUM 47
 POTAMOGETON OBTUSIFOLIUS 47
 POTENTILLA BREVIFOLIA 48
 POTENTILLA DIVERSIFOLIA 48
 Potentilla nivea quinquefolia 48
 POTENTILLA PLATTENSIS 48
 POTENTILLA QUINQUEFOLIA 48
 POTENTILLA UNIFLORA 48
 PRIMULA ALCALINA 78
 PRUNUS PUMILA 48
 PSILOCARPHUS BREVISSIMUS 49
 PSORALEA HYPOGAEA 14

QUERCUS MACROCARPA 10

RANUNCULUS CARDIOPHYLLUS 49
RANUNCULUS GELIDUS 49
RANUNCULUS HYPERBOREUS 49
RANUNCULUS JOVIS 49
RANUNCULUS ORTHORHYNCHUS 65
RANUNCULUS PEDATIFIDUS 49
RANUNCULUS VERECUNDUS 66
RIBES COGNATUM 50
Ribes oxycanthoides cognatum 50
RIBES TRISTE 50
RORIPPA CALYCINA 50
RODALA RAMOSIOR 50
RUBUS URSINUS 73

SAGINA NIVALIS 50
SALIX BARRATTIANA 50
SALIX CASCADENSIS 51
SALIX SERISSIMA 51
SALIX WOLFII WOLFII 51
SATUREJA DOUGLASII 66
SAUSSUREA Densa 51
Saussurea nuda densa 51
SAUSSUREA WEBERI 51
SAXIFRAGA APETALA 51
SAXIFRAGA CHRYSANTHA 74
Saxifraga integrifolia apetalata 51
SAXIFRAGA MARSHALLII 74
SAXIFRAGA OREGANA OREGANA 78
Saxifraga serpyllifolia chrysantha 74
SAXIFRAGA TEMPESTIVA 66
SAXIFRAGA TOLMIEI 74
SCIRPUS CESPITOSUS 66
SCIRPUS CYPERINUS 52
SCIRPUS HETEROCHAETUS 52
SCIRPUS HUDSONIANUS 52
SCIRPUS NEVADENSIS 52
SCIRPUS PUMILUS 52
SCIRPUS SUBTERMINALIS 52
SEDUM DEBILE 74
SEDUM LEIBERGII 74
SELAGINELLA Densa STANDLEYI 78
SELAGINELLA SELAGINOIDES 53
SELAGINELLA WATSONII 14
SENECIO AMPLECTENS 53
SENECIO DEBILIS 53
SENECIO EREMOPHILUS 53
SENECIO FUSCATUS 74
SENECIO HYPERBOREALIS 78
SENECIO PAUCIFLORUS 78
Senecio tundricola 74
SHOSHONEA PULVINATA 53
SIDALCEA OREGANA 53
SILENE SPALDINGII 14
Solidago ptarmicoides 18
SOLIDAGO SPARSIFLORA 78
SOLIDAGO SPATHULATA NANA 78
SPARGANIUM ANDROCLADUM 78
SPHAERALCEA MUNROANA 54
SPHAEROMERIA CAPITATA 75
Sphenopholis intermedia 66
SPHENOPHOLIS OBTUSATA MAJOR 66
SPIRAEA X PYRAMIDATA 54
SPOROBOLUS ASPER 54
SPOROBOLUS NEGLECTUS 54
SPOROBOLUS VAGINIFLORUS 78
STANLEYA TOMENTOSA 54
STANLEYA VIRIDIFLORA 66
STELLARIA CRASSIFOLIA 54
STEPHANOMERIA SPINOSA 55
STIPA LEMMONII 78

STIPA LETTERMANNII 78
STIPA THURBERIANA 78
STREPTANTHELLA LONGIROSTRIS 55
SUCKLEYA SUCKLEYANA 55
SULLIVANTIA HAPEMANNII 55
SYNTHYRIS CANBYI 75
SYNTHYRIS MISSURICA 55

Tanacetum capitatum 75
TARAXACUM ERIOPHORUM 55
THALICTRUM ALPINUM 56
THELYPODIUM PANICULATUM 56
THELYPODIUM SAGITTATUM 56
Thelypodium sagittatum crassicaupum 56
THELYPTERIS PHEGopteris 14
THLASPI PARVIFLORUM 56
TOFIELDIA PUSILLA 56
TOWNSENDIA CONDENSATA 67
TOWNSENDIA FLORIFER 56
TOWNSENDIA INCANA 57
TOWNSENDIA LEPTOTES 78
TOWNSENDIA NUTTALLII 78
TOWNSENDIA SPATHULATA 57
Townsendia spathulata 67
TRADESCANTIA BRACTEATA 79
Trichophorum pumilum 52
TRIFOLIUM CYATHIFERUM 57
TRIFOLIUM ERIOCEPHALUM 57
TRIFOLIUM GYMNOCARPON 57
TRIFOLIUM LATIFOLIUM 57
TRIFOLIUM MICROCEPHALUM 58
TRIGLOCHIN CONCINNUM 58
TRISETUM ORTHOCHAETUM 79

UTRICULARIA INTERMEDIA 58

VACCINIUM MYRTILLOIDES 14
VACCINIUM OVALIFOLIUM 79
VERATRUM CALIFORNICUM 58
VERBENA BIPINNATIFIDA 79
VERBESINA ENCELIOIDES 79
VERNONIA FASCICULATA 79
VIBURNUM LENTAGO 58
VIBURNUM OPULUS 79
VIOLA PEDATIFIDA 79
VIOLA RENIFOLIA 58
WALDSTEINIA IDAHOENSIS 15
WOLFFIA COLUMBIANA 59
WOLFFIA PUNCTATA 75
WYETHIA SCABRA 59

XYLORHIZA GLABRIUSCULA 59

ZIZIA AUREA 79

MONTANA

miles