

APPENDIX J:  
Rare Plants that Could Exist in the EIS Area

Scientific Name/Common Name	Ranking: Global-State*
<u>Antennaria pulcherrima</u> (Hook.) Green showy pussy-toes	G3G4 S1
<u>Astragalus molybdenus</u> Barneby Leadville milkvetch	G3 S1
<u>Botrychium minganense</u> Vict. Mingan Island moonwort	G4 S1
<u>Botrychium paradoxum</u> Wagner Peculiar moonwort	G1 S1
<u>Cardamine rupicola</u> (Rydb.) Hitchcock cliff toothwort	G2 S2
<u>Carex crawei</u> Dewey Craw's sedge	G5 S1
<u>Carex livida</u> (Wahl.) Wahl. pale sedge	G5 S1
<u>Carex maritima</u> Gunn. (+ <u>C. incurviformis</u> var. <u>danaensis</u> ) Maritime sedge	G4G5 S1
<u>Carex paupercula</u> Michx. poor sedge	G5 S1
<u>Cypripedium calceolus</u> L. var. <u>parviflorum</u> (Sasisb.) Fern. Yellow lady's-slipper	G4T3 S2
<u>Cypripedium passerinum</u> Richards bird's egg or Franklin's lady's-slipper	G4G5 S1
<u>Drosera linearis</u> Goldie linear-leaved sundew	G4 S1
<u>Elymus innovatus</u> Beal Northern wild-rye	G4 S1
<u>Epipactis gigantea</u> Dougl. ex Hook Giant helleborine	G4 S1
<u>Erigeron lackschewitzii</u> Nesom and Weber Lackschewitz's fleabane	G2Q S2
<u>Eriophorum viridicarinatum</u> (Engelm.) Fern. green-keeled cottongrass	G5 S1

<u>Gentianopsis macounii</u> (T.H. Holm) Iltis smaller fringed gentian	G5	S1
<u>Juncus acuminatus</u> Michx. tapered rush	G5	S1
<u>Juncus hallii</u> Engelm. Hall's rush	G4G5	S1
<u>Orchis rotundifolia</u> Banks small roundleaved orchis	G5	S1
<u>Oxytropis lagopus</u> Nutt. var. <u>conjugens</u> Barneby rabbit-foot crazy-weed	G4T2	S2
<u>Oxytropis podocarpa</u> Gray stalked-pod crazywed	G4	S1
<u>Physaria saximontana</u> Rollins var. <u>dentata</u> Rollins mountain twinpod	G2T2	S1
<u>Potamogeton obtusifolius</u> Mert. & Kock Blunt-leaved pondweed	G5	S1S2
<u>Salix barrattiana</u> Hook. Barratt's willow	G5	S1
<u>Scirpus caespitosus</u> L. tufted clubrush	G5	S1
<u>Thalictrum alpinum</u> L. Alpine meadowrue	G4G5	S1
<u>Triglochin concinnum</u> Davy var. <u>debile</u> (Jones) Howell graceful arrow-grass	G5T4	S1
<u>Viola renifolia</u> Gray Kidney-leaved violet	G5	S1

The global and state rankings are from the Montana Natural Heritage Inventory. This inventory includes plant species which are rare, endemic, disjunct, threatened, or endangered throughout Montana, or in need of further research. Plant taxa are ranked, in this inventory, by a standardized procedure used in 35 other heritage programs. They are ranked on the basis of their range-wide or global rarity, and on their rarity within the specific state, using these ranking categories:

#### Montana Heritage Global and State Ranking Definitions

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procedure used in 35 other heritage programs. They are ranked on the basis of their range-wide or global rarity, and on their rarity within the specific state, using these ranking categories:

<u>Global Rank</u>	<u>Definition</u>
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. (Critically endangered throughout range).
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. (Endangered throughout range).
G3	Either very rare and local throughout its range or found locally (even abundant at some of its locations) in a restricted range, or because of other factors making it vulnerable to extinction throughout its range: in the range of 21 to 100 occurrences. (Threatened throughout range).
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.

<u>State Rank</u>	<u>Definition</u>
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 extinction from the state. (Critically endangered in 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. (Endangered in state).

- S3 Rare in Montana (on the order of 20+ occurrences).  
(Threatened in state).
- 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

- Q Taxonomic questions or problems involved: more  
information needed.
- T Rank for a subspecific taxon (subspecies or variety):  
appended to the global rank for the full species.

It should be emphasized that many of the global and state ranks are currently being reviewed and are subject to revision.