

**Hazardous Fuels Reduction – Benbow and Main Fk Rock Creek
Sensitive Plant Report
Beartooth District**

(R1 2004 List)

Table – Beartooth District Sensitive Plant Species Rareness, Habitat, Ecology, and Occurrence Potential within Project Area

Common Name	Scientific Name	Type ^{1*}	Global Rank ²	State Rank ³	Elevation (ft)	Habitat	Closest known population	Potential of Occurrence ⁴	Vulnerability to Project Effects	Flowering Period	Fruiting Period	Lifeform	Effects Determination – Proposed Action ⁵
Musk-root	<i>Adoxa maschatellina</i>	3	G5	S2	4,400-6,000	Vernally moist places in the mountains at the bottom of undisturbed, open rock slides that have cold air drainage.	East Rosebud Creek and Spread Creek – approx. 1 air miles from E Rosebud Allotment.	Moderate	Low	June-early July	Through July	Musky-scented Perennial Forb	No Impact
Small yellow lady's slipper	<i>Cypripedium parviflorum</i>	3	G5	S2S3	2,520 – 6,200	Fens, damp mossy woods, seepage areas, and moist forest-meadow ecotones in valley to lower montane	Suspected - Historically Documented Stillwater Co. (State)– approx. 15 air miles	Low to Moderate	Low	May-June	July	Perennial Forb	No Impact
Giant helliborine	<i>Epipactis gigantea</i>	3	G4	S2	2,900 – 6,200	Streambanks, fens with springs/seeps, often near thermal waters	Bluewater Fish Hatchery – approx. 70 air miles	Low	Low	June – Early August	June – Early August	Perennial Forb	No Impact
Hiker's gentian	<i>Gentianopsis simplex</i>	3	G4	S1	4,460 – 8,400	Fens, meadows, and seeps, usually in areas of crystalline parent material, in the montane	Within East Rosebud - approx. 10 air miles	Low to Moderate	Low	July - August	July - August	Small Annual Forb	No Impact

¹ Scale of risk, per Region 1 Species at Risk Protocol: Type 1: Threatened, Endangered or Proposed (ESA); Type 2: Range-wide Imperilment; Type 3: Regional/State Imperilment

² and ² The international network of Natural Heritage Programs employs a standardized ranking system to denote global (range-wide) and state status (Association for Biodiversity Information 2001). Species are assigned numeric ranks ranging from 1 (critically imperiled) to 5 (demonstrably secure), reflecting the relative degree to which they are “at-risk”. 1 = Critically imperiled because of extreme rarity and/or other factors making it highly vulnerable to extinction; 2 = Imperiled because of rarity and/or other factors demonstrably making it vulnerable to extinction; 3 = Vulnerable because of rarity or restricted range and/or other factors, even though it may be abundant at some of its locations; 4 = Apparently secure, though it may be quite rare in parts of its range, especially at the periphery; 5 = Demonstrably secure, though it may be quite rare in parts of its range, especially at the periphery; T = Rank for subspecific taxon (subspecies, variety, or population); appended to the global rank for the full species, e.g. G4T3

⁴ Potential of Occurrence rated as high, moderate, or low

⁵ Proposed action incorporates design criteria (i.e., follow BMPs and SMZs) that results in Effects Determination. Determination made by Kim Reid, Custer National Forest Botany Coordinator.

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						and subalpine zones							
Beartooth goldenweed	<i>Haplopappus carthamoides</i> var. <i>subsquarrosus</i>	2	G4G5T2T3	S2	5,520 – 7,200	Grasslands and sagebrush steppe on sandy calcareous soils in the foothills and montane zones	Main Fk Rock Cr – 2 air miles	Low	Low	July - August	July - August	Perennial Forb	No Impact
Hall's rush	<i>Juncus hallii</i>	3	G5	S2	4,000 – 8,860	Moist to dry meadows and slopes from valley to montane	Gallatin NF – approx. 90 air miles	Low	Low	July - August	July - August	Perennial grass-like	No Impact
Mealy Primrose	<i>Primula incana</i>	3	G4G5	S2	Below alpine and sub - alpine habitat	Wet meadows, springs and shores, often where alkaline; calcareous bog meadows; wet meadows & quaking bogs; NOT found in alpine or subalpine areas..	Historically known - East Rosebud Lake - approx. 10 air miles	Low to Moderate	Low	May to June	Through July	Perennial Forb	No Impact
Threeranked humpmoss	<i>Meesia triquetra</i>	3	G5	S2	7850-10,500	Rich fens having surface waters with high pH and calcium concentrations. It can also be found in alkaline swampy birch and willow woods.	West Fork Rock Creek, -approx. 10 air miles	Low to Moderate	Low			Moss – Non-vascular plant	No Impact
Jove's Buttercup	<i>Ranunculus jovis</i>		G4	S2	7,500-9,600	Sagebrush grasslands to open forest slopes in the montane and subalpine zones.	Head of Crooked Cr.-Pryor Mtns. – approx. 90 air miles.	Low to Moderate	Low to None	April - June	April - June	Perennial Forb	No Impact

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Barratt's Willow	<i>Salix barrattiana</i>	3	G5	S1	6,800 - 10,500	Grows on boggy meadows, moist open hillsides in mountains, lakeshores, streambanks, rock slides, recent alluvial deposits. Soils range from very calcareous to very acidic.	Line Cr Plateau – approx. 10 air miles	None	None	July - August	July - August	Shrub	No Impact
Shoshonea	<i>Shoshonea pulvinata</i>	2	G2G3	S1	6,440 - 7,800	Open, exposed limestone outcrops, ridgetops and canyon rims, in thin rocky soils	Meeteetsee Spires – approx. 15 air miles	Low	Low to None	May - July	May - July	Perennial Forb	No Impact

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