

Plants Evaluated for Species of Conservation Concern - for the Flathead National Forest Draft Forest Plan and Draft Environmental Impact Statement	Conservation Categories	Is the species known to occur in the plan area?	Distribution and Abundance in the Plan Area	Population Trend in the Plan Area	Habitat Trend in the Plan Area	Habitat Description
<i>Amblyodon dealbatus</i> Amblyodon moss	G3G5	Yes	One historical record on the forest.	Unknown	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Fens, wetlands, often calcareous.
<i>Amerorchis rotundifolia</i> Roundleaf orchid	SOC, RFSS	Yes	5 occurrences on forest; last documented observation in 1995 (2013 undocumented)	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Spruce forest ecotones around fens or along streams, often in substrate influenced by limestone.

<i>Carex chordorrhiza</i> Creeping sedge	SOC, RFSS	Yes	2 observations on forest, last documented in 2007 (last seen in 2012). 5 within 15 mi of the forest.	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Wet, organic soil of fens in the montane zone.
<i>Carex lacustris</i> Lake-bank sedge	SOC, RFSS	Yes	3 observations on forest, last documented in 2013. 1 within 15 mi of the forest.	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Marshes and fens.

<p><i>Cypripedium parviflorum</i> Small yellow lady's-slipper</p>	RFSS	Yes	15 observations on forest, last documented in 2013. Populations typically have a large number of individuals. There are many populations on other ownerships within the forest as well as near the forest boundary.	Stable	Based on extensive field surveys since the 1980s, associated peatland and wetland habitat conditions are stable in the plan area.	Fens, damp mossy woods, seepage areas, and moist forest-meadow ecotones in the valley to lower montane zones.
<p><i>Cypripedium passerinum</i> Sparrow's-egg lady's-slipper</p>	SOC, RFSS, S2S3	Yes	10 populations on forest, last documented in 2013. 30 within 15 mi of the forest.	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Mossy, moist, or seepy places in coniferous forests and forest ecotones adjacent to fens, often on calcareous substrates.

<i>Drosera anglica</i> English sundew	SOC, RFSS	Yes	19 observations on forest, last documented in 2013. 10 populations within 15 mi of the forest.	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	With sphagnum moss in wet, organic soils of fens in the montane zone.
<i>Drosera linearis</i> Slenderleaf sundew	SOC, RFSS, S2	Yes	2 observations on forest, last documented in 1988.	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Wet, organic soil of fens in the montane zone. Resides in specialized, limited habitat.

<p><i>Drosera rotundifolia</i> Roundleaf sundew</p>	None	Yes	Generally not tracked due to lack of regional listing and state status as SOC. Found in most peatlands supporting any <i>Drosera</i> species.	Stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	In sphagnum fens in montane zone.
<p><i>Eleocharis rostellata</i> Beaked spikerush</p>	SOC, RFSS	Yes	3 observations on forest, last documented in 1995 (adjacent populations found in 2003). 5 observations within 15 mi of the forest.	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Wet, often alkaline soils, associated with warm springs or fens in the valley and foothills zones.

<p><i>Eriophorum gracile</i> Slender cottongrass</p>	<p>SOC, RFSS</p>	<p>Yes</p>	<p>9 observations on forest, last documented in 2013. 16 observations within 15 mi of the forest.</p>	<p>Presumed stable</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Wet, organic soil of fens from low to moderate elevations.</p>
<p><i>Liparis loeselii</i> Loesel's twayblade</p>	<p>SOC, RFSS, S2</p>	<p>Yes</p>	<p>3 populations on forest, last documented in 2013. 6 observations nearby on state and TNC lands. The rarest and most geographically restricted orchid species in Montana.</p>	<p>Some populations may be declining.</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Wet, organic soils of calcareous fens in the valley and montane zones.</p>

<p><i>Lycopodiella inundata</i> Northern bog clubmoss</p>	<p>SOC, RFSS, S2</p>	<p>Yes</p>	<p>3 populations on forest and 1 on private land within forest boundary.</p>	<p>Presumed stable</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Wet, organic soil of nutrient-poor fens in the valley and lower montane zones.</p>
<p><i>Meesia triquetra</i> Meesia moss</p>	<p>SOC, RFSS, S2</p>	<p>Yes</p>	<p>5 observations on forest, last documented in 2013. 1 population on TNC lands in Swan Valley and 4 more pops within 15 mi of the forest.</p>	<p>Presumed stable</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Collected on forest from fen and peat dome at base of slope, fed by perennial springs; also collected from shallow pool and wet sphagnum lawn. Also found at edge of pond in the wilderness.</p>

<p><i>Scheuchzeria palustris</i> Pod grass</p>	<p>SOC, RFSS</p>	<p>Yes</p>	<p>27 observations on forest, last documented in 2013. 14 observations within 15 mi of the forest.</p>	<p>Stable</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Wet, organic soil of fens in the valley and montane zones, usually with Sphagnum moss.</p>
<p><i>Scorpidium scorpioides</i> Scorpidium moss</p>	<p>SOC, RFSS, S2</p>	<p>Yes</p>	<p>2 observations on forest, last documented in 1999. 17 observations within 15 mi of the forest.</p>	<p>Presumed stable</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Found on wet soil in calcareous seeps and fens.</p>



<p><i>Sphagnum magellanicum</i> Magellan's peatmoss</p>	<p>SOC, S1</p>	<p>Yes</p>	<p>2 observations on forest, last documented in 2013.</p>	<p>Presumed stable</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Rich fens, peatlands (Schofield 1992).</p>
<p><i>Trichophorum alpinum</i> Hudson's Bay bulrush</p>	<p>SOC, S2</p>	<p>Yes</p>	<p>1 population on the forest and 2 within 15 mi of the forest.</p>	<p>Presumed stable</p>	<p>Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.</p>	<p>Wet, cold organic soil of fens and slopes in the montane and subalpine zones. Sphagnum lawns and other very wet places.</p>

<i>Trichophorum cespitosum</i> Tufted club-rush	SOC, RFSS, S2	Yes	9 observations on forest, last documented in 2013. 10 observations within 15 mi of the forest.	Presumed stable	Based on extensive field surveys since the early 1990s, peatland habitat conditions are stable in the plan area.	Wet meadows and sphagnum-dominated fens in the montane to alpine zones.
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Relevant Threats in the Plan Area	Is there sufficient scientific information available to conclude substantial concern for long-term persistence in the plan area?	Is this species identified as an SCC for the DEIS?	Rationale for SCC Determination	Best Available Scientific Information
Hydrologic changes that may affect the groundwater-dependent habitat.	No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS05010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS05010</a> .
Hydrologic changes that may affect the groundwater-dependent habitat; changes to canopy cover; riparian zone disturbances; collection	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 5 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC01010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC01010</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Competition with invasive vegetation; changes to hydrology	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 2 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYP032U0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYP032U0</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Changes to hydrology	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 3 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYP036W0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYP036W0</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Collection, habitat alteration, changes to hydrology, and road construction and maintenance are potential threats	Yes	No	Substantial number of observations and high number of individuals in those populations; riparian and wetland habitats are protected from management activities.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORCOQ090">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORCOQ090</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Main threats to populations appear to be from potential hydrologic changes; road construction; riparian zone disturbances; collection	Yes	Yes	Small population sizes and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORCOQ0A0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORCOQ0A0</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Changes to hydrology	Yes	No	Abundant in many peatlands. Many observations. Management activities are not a threat. No risk to persistence.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDDRO02010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDDRO02010</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Changes to hydrology	Yes	Yes	Only 2 populations known in the plan area; although the populations are within wilderness, the species has very low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDDRO02060">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDDRO02060</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Changes to hydrology	Yes	No	Abundant in many peatlands. Many observations. Management activities are not a threat. No risk to persistence.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDDRO02070">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDDRO02070</a> . Chadde, S.W., <i>et al.</i> . 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Vulnerable to hydrologic alteration.	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 3 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCY091P0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCY091P0</a> . Chadde, S.W., <i>et al.</i> . 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Vulnerable to activities that may alter the hydrology of occupied sites.	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented 9 occurrences, with low population sizes in most cases; small populations and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOA080">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOA080</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Potentially threatened by land-use conversion, habitat fragmentation, and forest management practices; unknown causes of decline appear to be a factor as well; changes to hydrology.	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 3 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC1M040">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC1M040</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.



Land-use conversion, habitat fragmentation, wetland drainage, and succession are considered low-level threats. Changes to hydrology	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 3 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area; very rare species in MT.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPLYC03060">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPLYC03060</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Changes to hydrology	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 5 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS4L020">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS4L020</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Changes to hydrology	Yes	No	Abundant in many peatlands. Many observations. Management activities are not a threat. No risk to persistence.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMSCH02010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMSCH02010</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Changes to hydrology	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 2 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area; restricted to extremely rich fens.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS6V010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS6V010</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Changes to hydrology	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented only 2 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area; restricted to rich fens.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS6Z0M0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS6Z0M0</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Changes to hydrology	Yes	No	<i>In further review</i>	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOA010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOA010</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.

Changes to hydrology	Yes	Yes	Extensive peatland surveys in the plan area since the early 1990s have documented 9 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOQ060">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOQ060</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
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<i>Bidens beckii</i> Beck water-marigold	SOC, RFSS, S2	Yes	1 observation on the forest (1998) and 10 within 15 mi of the forest.	Unknown	Aquatic habitats have been stable in the plan area.	Still or slow-moving water of lakes, rivers, and sloughs in the valleys, 0.1-3 m deep.
<i>Heteranthera dubia</i> Water star-grass	SOC, RFSS, S1S2	Yes	1 population on forest, last documented in 1998. 1 population within 15 mi of the forest.	Unknown	Aquatic habitats have been stable in the plan area.	Shallow water of riverine sloughs and backwaters in the valleys
<i>Potamogeton obtusifolius</i> Blunt-leave pondweed	SOC, RFSS	Yes	3 observations on forest, last documented in 2007. Several populations on other lands within forest boundary.	Unknown	Aquatic habitats have been stable in the plan area.	Shallow water of lakes, ponds, and sloughs in the valley, foothill, and montane zones

<i>Schoenoplectus subterminalis</i> Water bulrush	SOC, RFSS	Yes	5 observations on forest, last documented in 2013.	Unknown	Aquatic habitats have been stable in the plan area.	Found in open water and boggy margins of ponds, lakes, and sloughs at 0.1-3 m depth in the valley, foothill, and montane zones.
<i>Verrucaria kootenaica</i> Speck lichen	SOC, G2	Yes	1 population on the forest and 1 within 15 mi of the forest.	Unknown	Likely stable	On calcareous rock near streams. Specifically, it grows on stable limestone rocks below the high water line of large streams

Relevant Threats in the Plan Area	Is there sufficient scientific information available to conclude substantial concern for long-term persistence in the plan area?	Is this species identified as an SCC for the DEIS?	Rationale for SCC Determination	Best Available Scientific Information
No species-specific threats reported	Yes	No	Management activities not a threat to habitat; population trend unknown.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST6A010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST6A010</a> .
Vulnerable to changes in hydrology, water quality and recreational impacts; no species-specific threats reported	Yes	No	Management activities not a threat to habitat; population trend unknown.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMPON03010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMPON03010</a> .
Vulnerable to changes in hydrology, water quality and recreational impacts; no species-specific threats reported	Yes	No	Management activities not a threat to habitat; population trend unknown.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMPOT030R0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMPOT030R0</a> .

Some low-level potential threats from drainage of wetlands such as beaver ponds and bogs and the lack of disturbance, succession resulting from the removal of beavers from the environment. Riparian zone disturbances; no species-specific threats reported	Yes	No	Management activities not a threat to habitat; population trend unknown.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOQ1G0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMCYPOQ1G0</a> .
No species-specific threats identified.	No	No	Management activities not a threat to habitat; population trend unknown, and no inventory data available.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0032270">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0032270</a> .



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<i>Epipactis gigantea</i> Giant helleborine	SOC, RFSS, S2S3	Yes	13 observations on forest (about 11 populations), last documented in 2013. 14 observations within 15 mi of the forest.	Stable in many sites, but effects from invasive species in some cases	Presently stable	Stream banks, lake margins, fens with springs and seeps, often near thermal waters.
<i>Ophioglossum pusillum</i> Adder's tongue	SOC, RFSS	Yes	11 observations on forest, last documented in 2013. 25 observations located within 15 mi of the forest.	Presumed stable	Presumed stable	Wet meadows, margins of fens, and gravelly moist soil in the valley and montane zones.
<i>Petasites frigidus</i> var. <i>frigidus</i> Arctic sweet coltsfoot	SOC, RFSS, S2	Yes	4 populations known on forest and 3 within 15 mi of the forest.	One population has been extirpated.	Most habitat presumed stable.	Swamps, fen margins, and riparian seeps within open forest and meadows in the valley and foothill zones.

<i>Ranunculus orthorhynchus</i> Straightbeak buttercup	SOC, S1S2	No	Not on forest but 1 population is adjacent to the boundary.	Not known to occur in the plan area	Not known to occur in the plan area	Streambanks and moist meadows in the montane zone.
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Relevant Threats in the Plan Area	Is there sufficient scientific information available to conclude substantial concern for long-term persistence in the plan area?	Is this species identified as an SCC for the DEIS?	Rationale for SCC Determination	Best Available Scientific Information
Recreation, exotic species, water development, livestock grazing, urban development, timber harvest, and utility line maintenance. Changes to hydrology; road construction and maintenance; riparian zone disturbances; found in timber sales, such as Cedar Flats on HHRD.	Yes	Yes	Invasive species, timber management, and collection threats. Low population sizes at some sites.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC11010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC11010</a> . Chadde, S.W., <i>et al.</i> 1998. Peatlands on National Forests of the Northern Rocky Mountains: ecology and conservation. Gen. Tech. Rep. RMRS-GTR-11. Ogden, UT: U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station. 75 p.
Changes to hydrology	Yes	No	Management activities not a threat to habitat; 11 populations documented in the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH020F0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH020F0</a> .
Riparian zone disturbances; changes to hydrology; road use, construction and maintenance; timber harvest; culvert replacement has already extirpated one site on SBRD	Yes	Yes	Extensive peatland and riparian surveys in the plan area since the early 1990s have documented only 4 occurrences; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST71014">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST71014</a> .

Invasive species and trampling have been identified as potential threats	No	No	Not known to occur in the plan area	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDRAN0L1Y0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDRAN0L1Y0</a> .
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Plants Evaluated for Species of Conservation Concern - for the Flathead National Forest Draft Forest Plan and Draft Environmental Impact Statement	Conservation Categories	Is the species known to occur in the plan area?	Distribution and Abundance in the Plan Area	Population Trend in the Plan Area	Habitat Trend in the Plan Area	Habitat Description
<i>Cardamine rupicola</i> Cliff toothwort	SOC, G3	Yes	11 observations on the forest and 10 within 15 mi of the forest. A Montana endemic known from 3 population clusters. These are in the Mission Mtns, Swan Range and the Rocky Mtn Front Range.	Presumed stable	Presumed stable	Sparsely vegetated, stony soil or talus derived from limestone in the subalpine and alpine zones.
<i>Draba densifolia</i> Dense-leaf draba	SOC, S2	Yes	1 population on the forest (Elkcalf Mtn.)	Presumed stable	Presumed stable	Gravelly, open soil of rocky slopes and exposed ridges in the montane to alpine zones. Generally on dry sites.

<i>Erigeron lackschewitzii</i> Lackschewitz' fleabane	SOC, RFSS, G3	Yes	6 observations on forest, last documented in 2001. 25 observations within 15 mi of the forest.	Presumed stable	Presumed stable	Open, gravelly, calcareous soil and talus on ridgetops in the alpine and subalpine zones.
<i>Papaver pygmaeum</i> Alpine glacier poppy	SOC, S2S3	Yes	1 observation on forest and 5 within 15 mi of the forest.	Unknown	Presumed stable	Sparsely vegetated, stony soil of exposed slopes and ridge tops in the alpine zone.
<i>Physaria saximontana</i> var. <i>dentata</i> Rocky Mountain twinpod	SOC, G3T3	Yes	1 pop on forest and 6 within 15 mi of the forest.	Unknown	Presumed stable	Typically found in limestone-derived talus, fellfields, and gravelly slopes at moderate to high elevations.
<i>Polystichium kruckebergii</i> Kruckeberg's swordfern	SOC, S2S3	Yes	1 observation on forest (1997) and 1 within 15 mi of the forest.	Unknown	Presumed stable	Cliff crevices and talus slopes in montane to alpine zones.
<i>Potentilla nivea</i> var. <i>pentaphylla</i> Five-leaf cinquefoil	SOC, RFSS	Yes	2 observations on forest, last documented in 1985.	Unknown	Presumed stable	Dry, gravelly soil of exposed ridges and slopes in the montane to alpine zones.

<i>Saussurea densa</i> Dwarf saw-wort	SOC, S2S3	Yes	2 populations on the forest and 11 within 15 mi of the forest.	Unknown	Presumed stable	Calcareous soil of talus slopes and rocky, open slopes in the alpine zone.
<i>Solorina bispora</i> Chocolate chip lichen	SOC, S1S2	Yes	1 observation on forest and 1 within 15 mi of the forest.	Unknown	Presumed stable	On calcareous soil or humus on moist sites in alpine to subalpine habitats.
<i>Solorina spongiosa</i> Fringed chocolate chip lichen	SOC, S1S2	Yes	1 observation on the forest and 1 within 15 mi of the forest.	Unknown	Presumed stable	In moist moss mats on soil, adjacent to spring, seeps, waterfalls, and creeks; in alpine/subalpine zones.

<p><i>Synthrys canbyi</i> Mission Mountain kittentails</p>	<p>SOC, G2G3, S2S3</p>	<p>Yes</p>	<p>5 observations on the forest and 5 within 15 mi of the forest.</p>	<p>Presumed stable</p>	<p>Presumed stable</p>	<p>Open, rocky, usually calcareous soil of talus slopes and windswept ridge tops in the subalpine and alpine zones.</p>
<p><i>Tortula norvegica</i> Norwegian tortula moss</p>	<p>SOC, S1</p>	<p>Yes</p>	<p>1 population known on the forest.</p>	<p>Unknown</p>	<p>Presumed stable</p>	<p>On soil and rock, arctic and alpine to about 8900 feet (Lawton 1971).</p>



Relevant Threats in the Plan Area	Is there sufficient scientific information available to conclude substantial concern for long-term persistence in the plan area?	Is this species identified as an SCC for the DEIS?	Rationale for SCC Determination	Best Available Scientific Information
Grows at high elevations in rock and scree fields that generally are not subject to disturbance or other threats.	Yes	No	Management activities not a threat to populations or habitat; occurs in wilderness and roadless areas at high elevations.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRAOK130">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRAOK130</a> .
No species-specific threats identified.	No	No	No known risks to persistence.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRA110W0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRA110W0</a> .

Minor impacts from recreational use possible.	Yes	No	Occurs in alpine habitats in wilderness; no known risks to persistence	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST3M5W0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST3M5W0</a> .
Alpine habitat is generally not subject to serious disturbance.	No	No	Occurs in alpine habitats; historic record on the forest; no known risks to persistence	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDPAP0H0G0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDPAP0H0G0</a> .
No species-specific threats identified.	No	No	Occurs in alpine habitats; no known risks to persistence	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRA220L1">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRA220L1</a> .
Habitat is generally remote, limiting the potential for negative impacts.	No	No		0 Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPDRY0R0C0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPDRY0R0C0</a> .
No species-specific threats identified.	No	No	Occurs in alpine habitats; no recent population data; no known risks to persistence	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDROS1B152">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDROS1B152</a> .

Minor impacts from recreational use possible.	No	No	Occurs in alpine habitats in wilderness; no known risks to persistence	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST8B0E0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST8B0E0</a> .
No species-specific threats identified.	No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLLEC4G010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLLEC4G010</a> .
No species-specific threats identified.	No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0028030">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0028030</a> .

Occurrences restricted to high elevation, open, rocky slopes in the Mission and Swan Ranges. As such, habitat is not generally prone to human disturbance and most occurrences are in designated wilderness areas, which provide further protection.	Yes	No	Occurs in alpine habitats in wilderness; no known risks to persistence.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCR1W020">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCR1W020</a> .
No species-specific threats identified.	No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS7L0H0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS7L0H0</a> .

Plants Evaluated for Species of Conservation Concern - for the Flathead National Forest Draft Forest Plan and Draft Environmental Impact Statement	Conservation Categories	Is the species known to occur in the plan area?	Distribution and Abundance in the Plan Area	Population Trend in the Plan Area	Habitat Trend in the Plan Area	Habitat Description	Relevant Threats in the Plan Area
<i>Aloina brevirostris</i> Aloina moss	SOC, G3G5, S1	Yes	1 on forest and 2 within 15 mi of the forest. Historical.	Unknown	Presumed stable	Found on calcareous soil and on overturned tree bases. May also be a pioneer species on road cuts and river banks.	No species-specific threats identified.
<i>Asplenium trichomanes</i> Maidenhair spleenwort	None	Unknown	1 historical collection that may have been on the forest.	Unknown	Presumed stable	Moist rock crevices and talus slopes in the montane zone. Locally abundant when in appropriate habitat.	No species-specific threats identified.
<i>Botrychium ascendens</i> Upward-lobed moonwort	SOC, RFSS, G3	Yes	3 observations on forest, last documented observation in 2004.	Unknown	Unknown	Various mesic sites from low to moderate elevations, including roadsides and other disturbed habitats.	May be threatened by changes in the hydrology of its streamside habitat and also by small animal herbivory and flooding. Invasive plant invasion. Herbicide from roadside treatments. Road construction; timber harvest.

<p><i>Botrychium crenulatum</i> Wavy moonwort</p>	<p>SOC, RFSS, G3</p>	<p>Yes</p>	<p>12 observations on forest, last documented in 2006.</p>	<p>Unknown</p>	<p>Unknown</p>	<p>Various mesic sites from low to moderate elevations, including roadsides and other disturbed habitats. Sites may be partially shaded or open.</p>	<p>Changes to hydrology; road construction; recreation; timber harvest; Invasive plant invasion. Herbicide from roadside treatments.</p>
<p><i>Botrychium hesperium</i> Western moonwort</p>	<p>SOC, RFSS</p>	<p>Yes</p>	<p>9 observations on forest, last documented in 2007; frequent in northwest Montana and on forest.</p>	<p>Presumed stable</p>	<p>Presumed stable</p>	<p>Various dry to mesic sites from valley bottoms to the subalpine, including roadsides and other disturbed habitats.</p>	<p>Not adversely impacted by management activities.</p>

<p><i>Botrychium paradoxum</i> Peculiar moonwort</p>	<p>SOC, RFSS, G3G4</p>	<p>Yes</p>	<p>2 observations on forest, last documented in 2004. 1 within 15 mi of the forest.</p>	<p>Unknown</p>	<p>Presumed stable</p>	<p>Mesic meadows associated with spruce and lodgepole pine forests in the montane and subalpine zones; also found in springy western red cedar forests.</p>	<p>Threatened by grazing, trampling and off-road vehicle use.</p>
<p><i>Botrychium pedunculatum</i> Stalked moonwort</p>	<p>SOC, RFSS, G2G3</p>	<p>Yes</p>	<p>2 observations on the forest; last documented in 2009.</p>	<p>Unknown</p>	<p>Presumed stable</p>	<p>Various mesic sites from valley bottoms to the montane zone. The most common habitats are western red cedar bottomlands.</p>	<p>Threats include cattle grazing, road building and maintenance, timber harvesting (incl. use of sites as staging areas), and recreational activities such as camping, horse riding, and ORV use. Fire suppression, which is allowing succession to proceed at many occupied sites, may also be an issue.</p>

<i>Brigantiaea praetermissa</i> A lichen	S2S3	Yes	2 populations on the forest. Historical, last observed in 1977.	Unknown	Unknown	On conifer bark in low, moist forests.	Timber harvest is a potential threat.
<i>Callicladium haldanianum</i> Callicladium moss	None	Unknown	1 observation on the forest, pre-1970.	Unknown	Unknown	On rotten wood and soil.	No species-specific threats identified.
<i>Castilleja cervina</i> Deer indian paintbrush	SOC	Unknown	1 historical observation, possibly on the forest.	Unknown	Unknown	Grasslands and open coniferous forests in the valley and lower montane zones.	No species-specific threats identified.



<p><i>Collema curtisporum</i> Jelly lichen</p>	<p>SOC, RFSS, G3, S1</p>	<p>Yes</p>	<p>4 observations on forest, last documented in 2006.</p>	<p>Unknown</p>	<p>Possibly a downward trend due to declines in cottonwood stands.</p>	<p>Moist riparian forests, often in narrow sheltered valleys. Substrate: trunk (bark) of <i>Populus trichocarpa</i>; occasionally on conifer twigs.</p>	<p>Timber harvest; riparian zone disturbances; change in native fire regime; stand-replacing fires</p>
<p><i>Corydalis sempervirens</i> Pale corydalis</p>	<p>SOC, RFSS, S2</p>	<p>Yes</p>	<p>10 observations on forest, last documented in 2004.</p>	<p>Unknown</p>	<p>Although a disturbance species, populations may disappear when conditions stabilize, but more fires on the landscape may increase potential habitat as well.</p>	<p>Montane; rocky, disturbed or eroding soil of steep slopes in open forest, often appearing after fire.</p>	<p>Main threat appears to be from fire exclusion; invasive plant species also threaten occupied habitat; succession; timber harvest.</p>

<p><i>Cypripedium fasciculatum</i> Clustered lady's-slipper</p>	<p>SOC, RFSS</p>	<p>Yes</p>	<p>3 observations on forest, last documented in 2005 (last observed in 2013).</p>	<p>Possibly declining</p>	<p>Possibly declining with increase in fire on the landscape.</p>	<p>Montana occurrences are mostly in warm, dry mid-seral montane forest in the Douglas fir/ninebark and grand fir/ninebark habitat types; occurs in mixed conifer stands with western red cedar in the plan area.</p>	<p>Threatened by logging, road construction, development, fire suppression, change in native fire regime, stand-replacing fires, and collecting. Surface disturbances and canopy elimination may also negatively affect this species.</p>
<p><i>Dicranella grevilleana</i> Greville's dicranella moss</p>	<p>SOC, S1</p>	<p>Yes</p>	<p>1 population documented on the forest (Silver Stairs Falls).</p>	<p>Unknown</p>	<p>Unknown</p>	<p>Disturbed, damp, basic soil, usually at high altitudes; on damp soil from the lowlands to 6500 feet, more common in the mountains (Lawton 1971).</p>	<p>No species-specific threats identified.</p>

<p><i>Dryopteris cristata</i> Crested shieldfern</p>	<p>SOC, RFSS</p>	<p>Yes</p>	<p>7 observations on forest, last documented in 2009.</p>	<p>Unknown</p>	<p>Unknown</p>	<p>Moist to wet, often organic soils at the forest margins of fens and swamps in the montane zone.</p>	<p>Land-use conversion and habitat fragmentation via the alteration of wetland habitats threaten this species. Commercial forestry in the northern portion of its range may impact this species. Changes to hydrology; road construction; riparian zone disturbances.</p>
<p><i>Grimmia brittoniae</i> Britton's dry rock moss</p>	<p>SOC, RFSS, G2</p>	<p>Yes</p>	<p>1 site on forest (Bad Rock Canyon)</p>	<p>Presumed stable</p>	<p>Presently stable</p>	<p>Vertical faces of shaded, calcareous cliffs. Moderate elevations (1,640 – 2,300 feet). It grows on cliffs in warm, dry but climatically moist valley bottoms or forests dominated by Douglas-fir.</p>	<p>Threatened by proposed highway widening. Relatively low elevation habitat puts species at risk from human activities.</p>

<p><i>Grindelia howellii</i> Howell's gumweed</p>	<p>SOC, RFSS, G3</p>	<p>Yes</p>	<p>8 populations on forest, last documented in 2009 (last observed 2013). Many populations on the Lolo NF within 15 mi of the forest.</p>	<p>Possibly a downward trend in some sites that are being impacted by invasive species</p>	<p>Possibly a downward trend due to invasive species impacts</p>	<p>Vernally moist, lightly disturbed soil adjacent to ponds and marshes, as well as similar human-created habitats, such as roadsides and grazed pastures.</p>	<p>Invasive weeds are a threat to many occurrences, as the habitat occupied by <i>G. howellii</i> is also favorable for many weedy species. Application of herbicides along roadsides also has a direct, negative impact. Grazing, road construction and maintenance, and change in native fire regime also impacting habitat.</p>
<p><i>Idahoia scapigera</i> Scalepod</p>	<p>SOC, RFSS, S1S2</p>	<p>Yes</p>	<p>1 observation on forest, last documented in 2001.</p>	<p>Unknown</p>	<p>Stable</p>	<p>Vernally moist, open soil on rock ledges in the lower montane zone.</p>	<p>Highly susceptible to negative impacts from invasive weeds, primarily spotted knapweed and cheatgrass, as well as hydrological changes.</p>

<i>Lathyrus bijugatus</i> Latah Tule pea	SOC, RFSS, S2S3	Yes (historical)	1 record on forest, last documented in 1896 (historical occurrence); 2 populations occur within 15 mi of the forest; Kootenai NF population was observed in 2013.	Unknown	Unknown	Open ponderosa pine and western larch forests in the valley and lower montane zones.	Logging and soil disturbance. Change in native fire regime; succession.
<i>Lobaria hallii</i> A lichen	SOC, S2	Yes (historical)	One population on forest, last seen in 1989. 3 nearby observations on other lands, latest observation in 2007.	Unknown	Unknown	On bark and wood. Usually on <i>Populus</i> , though sometimes on other deciduous trees or shrubs. Moist lowland riparian areas.	No current information.
<i>Lycopodium dendroideum</i> Treelike clubmoss	SOC, RFSS, S2	No	None on forest, but one population occurs in Glacier NP.	Not applicable	Not applicable	Moist, coniferous forest in the valley and lower montane zones.	Not applicable

<i>Mimulus ampliatus</i> Stalked-leaved monkeyflower	SOC, RFSS, G3	Yes	3 pops on forest and 5 within 15 mi of the forest.	Unknown	Unknown	Open seeps and vernal moist soil along slopes, cliffs and streams from the valleys to the subalpine zone.	Soil disturbance, timber harvest and road construction are potential risks, but no specific threats identified.
<i>Mimulus breviflorus</i> Short-flowered monkeyflower	SOC, RFSS, S2	Yes	2 observations on forest, last documented in 2012. 3 populations within 15 mi of the forest.	Unknown	Potentially declining due to management activities.	Shallow, vernal moist soil among rock outcrops in coniferous forests or grasslands in the montane zone.	Soil disturbance; changes to hydrology; timber harvest activities and road construction. Found in Betty Baptiste on HHRD in opening surrounded by timber (in proposed harvest unit)
<i>Parmeliella triptophylla</i> Lead lichen	SOC, S1	Yes	1 population known on forest and 1 within 15 mi of the forest.	Unknown	Unknown	In moist environments at tree bases, on rocks, and on moss over rocks.	Potentially at risk from logging and soil disturbance

<i>Polygonum austiniiae</i> Austin's knotweed	RFSS	Yes	2 observations on forest, last documented in 2009.	Unknown	Unknown	Gravelly, often shale-derived soil of open slopes and banks in the montane zone.	Invasive species, soil disturbance and grazing are potential impacts.
<i>Pseudocyphallaria anomala</i> Netted specklebelly lichen	SOC, S1	Yes (historical)	1 population on forest (1989) and 1 other within 15 mi of the forest.	Unknown	Unknown	Generally on deciduous trees and shrubs; occasionally on coniferous trees; rarely on rock.	No species-specific threats identified.
<i>Ramalina obtusata</i> Hooded ramalina lichen	SOC, S2	Yes (historical)	1 population on forest (1989), 2 more nearby on other lands within forest, and 6 within 15 mi of the forest.	Unknown	Unknown	On tree and shrub bark in low elevation riparian forests.	No species-specific threats identified.
<i>Vaccinium myrtilloides</i> Velvetleaf huckleberry	SOC, S2	No	None on forest, but 7 observations are adjacent to forest boundary (one within forest boundary on other ownership).	Not applicable	Not applicable	Moist to rather dry forests in the montane zone.	Not applicable

Is there sufficient scientific information available to conclude substantial concern for long-term persistence in the plan area?	Is this species identified as an SCC for the DEIS?	Rationale for SCC Determination	Best Available Scientific Information
No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS03020">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS03020</a> .
No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPASPO21K0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPASPO21K0</a> .
No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010S0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010S0</a> . Popovich, S., B. Legler, and D. Farrar. 2016. cursory assessment of species of possible management concern for Ophioglossaceae of the Flathead National Forest. Unpublished report, on file at Flathead NF Supervisor's Office, Kalispell, Montana. 4 pp.



No	No	Insufficient information on the status of the species in the plan area; possible taxonomic misidentifications with some populations.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010L0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010L0</a> . Popovich, S., B. Legler, and D. Farrar. 2016. cursory assessment of species of possible management concern for Ophioglossaceae of the Flathead National Forest. Unpublished report, on file at Flathead NF Supervisor's Office, Kalispell, Montana. 4 pp.
Yes	No	Presumed to be sufficiently common and widespread, such that persistence in the plan area is probably secure; occurs in disturbed habitats.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010Q0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010Q0</a> . Popovich, S., B. Legler, and D. Farrar. 2016. cursory assessment of species of possible management concern for Ophioglossaceae of the Flathead National Forest. Unpublished report, on file at Flathead NF Supervisor's Office, Kalispell, Montana. 4 pp.

Yes	Yes	Only 2 occurrences known in the plan area; low population numbers within the plan area; known threats from management activities.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010J0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010J0</a> . PPopovich, S., B. Legler, and D. Farrar. 2016. cursory assessment of species of possible management concern for Ophioglossaceae of the Flathead National Forest. Unpublished report, on file at Flathead NF Supervisor's Office, Kalispell, Montana. 4 pp.
Yes	Yes	Only 2 occurrences known in the plan area; low population numbers within the plan area; known threats from management activities.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010T0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPOPH010T0</a> . PPopovich, S., B. Legler, and D. Farrar. 2016. cursory assessment of species of possible management concern for Ophioglossaceae of the Flathead National Forest. Unpublished report, on file at Flathead NF Supervisor's Office, Kalispell, Montana. 4 pp.

No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLMTNHP003">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLMTNHP003</a> .
No	No	Insufficient information on the status of the species in the plan area; historical record.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS1C010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS1C010</a> .
No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCROD0B0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCROD0B0</a> .

Yes	Yes	Only 4 occurrences known in the plan area; low population numbers and restricted ecological conditions (habitat) within the plan area; known threats from management activities.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLTEST7900">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLTEST7900</a> .
Yes	Yes	Restricted ecological conditions (habitat) within the plan area; some management activities impact populations.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDFUM030B0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDFUM030B0</a> .

Yes	Yes	Few observations and low population sizes; risk to persistence from management activities.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC0Q060">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PMORC0Q060</a> .
No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS28030">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS28030</a> .

Yes	Yes	Risk to persistence from management activities (timber harvest).	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPDRY0A090">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPDRY0A090</a> .
Yes	Yes	Endemic to NW MT and adjacent ID, one of the rarest mosses of interior PNW and one of only a few narrow endemics in the region known at this time. Only 1 occurrence known in the plan area; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS320A0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NBMUS320A0</a> .

Yes	Yes	Threats from forest management, grazing, and herbicide. Disturbance species but populations possibly being extirpated due to weed treatments.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST470E0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDAST470E0</a> .
Yes	Yes	Only 1 known occurrence in the plan area; low population numbers and restricted ecological conditions (habitat) within the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRA1G010">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDBRA1G010</a> .

No	No	Insufficient information on the status of the species in the plan area; historical occurrence, no recent observations.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDFAB25040">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDFAB25040</a> .
No	No	Insufficient information on the status of the species in the plan area; historical occurrence, no recent observations.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLTEST7920">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLTEST7920</a> .
No	No	Not known to occur in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPLYC010B0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PPLYC010B0</a> .



No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCR1B390">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCR1B390</a> .
Yes	Yes	Only 2 known occurrences in the plan area; low population numbers and restricted ecological conditions (habitat) within the plan area; 1 population in a proposed timber sale unit.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCR1B0L0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDSCR1B0L0</a> .
No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0020690">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0020690</a> .

No	No	Insufficient information on the status of the species in the plan area.	Montana Natural Heritage Program (MNHP) database records. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDPGN0L0X1">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDPGN0L0X1</a> .
No	No	Insufficient information on the status of the species in the plan area; historical occurrence, no recent observations.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0023860">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLT0023860</a> .
No	No	Insufficient information on the status of the species in the plan area; historical occurrence, no recent observations.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLLEC3S210">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=NLLEC3S210</a> .
No	No	Not known to occur in the plan area.	Montana Natural Heritage Program (MNHP) database record. Montana Field Guide, Montana Natural Heritage Program, <a href="http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDERI180M0">http://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDERI180M0</a> .

Conservation Category	Definition
G1	NatureServe global rank 1: At high risk because of extremely limited and/or rapidly declining population numbers, range and/or habitat, making it highly vulnerable to global extinction.
G2	NatureServe global rank 2: At risk because of very limited and/or potentially declining population numbers, range and/or habitat, making it vulnerable to global extinction.
G3	NatureServe global rank 3: Potentially at risk because of limited and/or declining numbers, range and/or habitat, even though it may be abundant in some areas.
S1	MNHP state rank 1: At high risk because of extremely limited and/or rapidly declining population numbers, range and/or habitat, making it highly vulnerable to extirpation in the state.
S2	MNHP State rank 2: At risk because of very limited and/or potentially declining population numbers, range and/or habitat, making it vulnerable to extirpation in the state.
RFSS	Regional Forester Sensitive Species
DM	Delisted (removed) from the Endangered Species Act list within the last five years, or delisted and still monitored by the regulatory agency
TC	Tribal concern
LC	Local concern