

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Liparis loeselii</i> / Loesel's Twayblade			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	D	Loesel's twayblade is present in South Dakota, Nebraska and Kansas, but not Wyoming or Colorado. Current distribution information is needed directly from the states where it is known to occur. It is known from the Nebraska and McKelvie National Forests in Nebraska (USDA Forest Service R2 2001).  In the Great Plains, it occupies open or shady peatlands.  Confidence in Rank High	<ul style="list-style-type: none"> <li>• Great Plains Flora Association 1986</li> <li>• Larson 1993</li> <li>• NatureServe 2002</li> <li>• USDA Forest Service R2 2001</li> </ul>
2 Distribution outside R2	C	It is a widespread species across boreal latitudes and much of the eastern United States. In the Rocky Mountains, it is no closer than northwestern Montana.  Confidence in Rank High	<ul style="list-style-type: none"> <li>• NatureServe 2002</li> </ul>
3 Dispersal Capability	C	The seeds of many species in the Orchid Family are dust-sized and wind-dispersed. The orchid embryo is not differentiated into distinct organs, as are most plant embryos. The lack of a nutrient storage compartment generally limits the length of time that seeds can survive without germinating, limiting dispersal capability.  Confidence in Rank High	<ul style="list-style-type: none"> <li>• Dressler 1990</li> </ul>
4 Abundance in R2	D	It was characterized as "rare" in North Dakota and Nebraska, not known from South Dakota (Larsen 1993). It is considered potentially extirpated in Kansas and is ranked "S1" in Nebraska.  Confidence in Rank High	<ul style="list-style-type: none"> <li>• Larson 1993</li> <li>• NatureServe 2002</li> </ul>
5 Population Trend in R2	D	Not known.  Confidence in Rank High	<ul style="list-style-type: none"> <li>• -</li> </ul>

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6 Habitat Trend in R2	D	Not known.  Confidence in Rank High	• -
7 Habitat Vulnerability or Modification	D	Not known.  Confidence in Rank High	• -
8 Life History and Demographics	D	Loesel's Twayblade is an herbaceous perennial that flowers more than once in its life cycle.  Additional information on the species, including life history stages, population structure, longevity, mortality, and seed biology, are not available.  Confidence in Rank High	• -
Initial Evaluator(s): B. Heidel			Date: 2 May 2002

National Forests in the Rocky Mountain Region where species is KNOWN (K) or LIKELY(L)<sup>1</sup> to occur:

<sup>1</sup> Likely is defined as more likely to occur than not occur on the National Forest or Grassland. This generally can be thought of as having a 50% chance or greater of appearing on NFS lands.

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<u>Colorado NF/NG</u>	Known	Likely	<u>Kansas NF/NG</u>	Known	Likely	<u>Nebraska NF/NG</u>	Known	Likely	<u>South Dakota NF/NG</u>	Known	Likely	<u>Wyoming NF/NG</u>	Known	Likely
Arapaho-Roosevelt NF			Cimmaron NG			Samuel R. McKelvie NF	X		Black Hills NF			Shoshone NF		
White River NF						Halsey NF			Buffalo Gap NG			Bighorn NF		
Routt NF						Nebraska NF	X		Ft. Pierre NG			Black Hills NF		
Grand Mesa, Uncompahgre, Gunnison NF						Ogalala NG						Medicine Bow NF		
San Juan NF												Thunder Basin NG		
Rio Grande NF														
Pike-San Isabel NF														
Comanche NG														

Literature cited

Dressler, R. L. The Orchids, Natural History and Classification. Harvard University Press, Cambridge, MA.

Great Plains Flora Association. 1986. Flora of the Great Plains. University Press of Kansas, Lawrence.

Larson, G.E. 1993. Aquatic and Wetland Vascular Plants of the Northern Great Plains. Gen. Tech. Rept. RM-238, Rocky Mountain Range and Experiment Station, Fort Collins, CO.

NatureServe. 2002. Explorer – an encyclopedia of life. Plant and animal data posted at [www.natureserveexplorer.org](http://www.natureserveexplorer.org), Arlington, VA.

USDA Forest Service – Region 2. 2001. “Wyoming plant species” evaluation list and criteria provided to Wyoming Natural Diversity Database. Denver, CO.