

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Platanthera orbiculata</i> / Round-leaved Orchid, Large Round-leaved Orchid			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	A	<p>Region 2 harbors disjunct populations of Round-leaved orchid in the Black Hills of South Dakota and Wyoming (Crook County).</p> <p>In Wyoming, Round-leaved orchid is found in shady, north-facing slopes in paper birch, hazelnut, or spruce forests on damp, rich humus soil at 4700-5600 feet. It is often in very narrow, seasonally wet microhabitat that is patchy across the landscape.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> <li>• Dorn 1977, 2001</li> <li>• Fertig 1993, 2000</li> <li>• Great Plains Flora Association 1986</li> <li>• Marriot et al. 1990</li> <li>• University of Wyoming 1998</li> </ul>
2 Distribution outside R2	B	<p>Outside Region 2, Round-leaved orchid is a boreal species that occurs from Newfoundland to southern Alaska and south to Tennessee, Minnesota, and Oregon.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> <li>• Gleason and Cronquist 1991</li> </ul>
3 Dispersal Capability	BC	<p>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.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> <li>• Dressler 1990</li> <li>• Luer 1975</li> </ul>
4 Abundance in R2	A	<p>It is known from 3 occurrences in Wyoming, all of which have been discovered since 1997. Two populations were relocated in 2000. There were 87 plants observed at 2 sites in June 2000 by Forest Service personnel (no plants were found at a third site). Only 14 plants had been documented in 1999 and 5 plants in 1997-1998. The total occupied habitat of this species is less than 2 acres.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> <li>• NatureServe 2002</li> <li>• WYNDD 2002</li> </ul>
5 Population Trend in R2	D	<p>Long term trends are not known, although population showed a large increase in 2000 from 1997-1998 numbers. This increase may be partly due to a more thorough survey effort.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> <li>• Holst et al. 2001</li> </ul>

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6 Habitat Trend in R2	BA	Long-term trends of habitat decline are inferred, based on Black Hills land use patterns that include timber management, grazing, mining, fire suppression, recreational activity, and road construction along riparian corridors. It is likely that this trend has diminished or stabilized in recent decades with revisions to U.S. Forest Service management policy and Forest plans as they involve riparian habitat.  Confidence in Rank Low	• -
7 Habitat Vulnerability or Modification	BA	It may be threatened by habitat loss from logging or grazing, and from over collection. It is found on Black Hills National Forest on lands managed for multiple use.  Confidence in Rank Low	• Fertig 2000
8 Life History and Demographics	D	Round-leaved orchid 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, pollination biology and seed biology, are not available.  Confidence in Rank High	• Gleason and Cronquist 1991 • Luer 1975
Initial Evaluator(s): Bonnie Heidel and Scott Laursen			Date: 24 June 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>		<u>Kansas NF/NG</u>		<u>Nebraska NF/NG</u>		<u>South Dakota NF/NG</u>		<u>Wyoming NF/NG</u>	
Known	Likely	Known	Likely	Known	Likely	Known	Likely	Known	Likely
		Cimmaron NG		Samuel R. McKelvie NF		Black Hills NF	X	Shoshone NF	
				Halsey NF		Buffalo Gap NG		Bighorn NF	
				Nebraska NF		Ft. Pierre NG		Black Hills NF	X
				Ogalala NG				Medicine Bow NF	
								Thunder Basin NG	

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