

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Cypripedium fasciculatum</i> /Purple Lady's Slipper(Clustered Lady's Slipper)			
Criteria	Rank	Rationale	Literature Citations
<p><b>1</b> Distribution within R2</p>	<p><b>A</b></p>	<p><i>C. fasciculatum</i> is a small orchid, brown-purple orchid found in northern CO and adjacent southern WY. It occurs on dry, forest floors usually under lodgepoles, spruce-fir, and other mixed conifers communities in R2. It is found on basic soils, granitics, schists, limestone and quartz-diorite. Populations have been reported from rocky to loamy soils at elevations ranging from 8000 to 10500 feet. In 1997, 36 locations were known from 7 counties in CO. Current information indicates that the majority of recent occurrences on USFS lands were reported after 1997; the latest occurrence in 2000. Although county information is incomplete, these reported occurrences do not appear to extend the county range in CO. It is ranked S2 in WY and S3 in CO. There appears to have been a moderate level of survey effort in the 1990s. No detailed information is available on recent surveys on or off forest lands. There is, what is reported to be, a disjunct population in WY, but no detailed information could be located on this species in WY. Other protected sites in R2 include; a Nature Conservancy preserve, a Denver Mountain Park's site, and Jefferson County Open Space land. There are several occurrences reported on private land.</p> <p><i>C. fasciculatum</i> has been reported on; the ARP in the Boulder, Estes-Poudre, Redfeather, and Sulphur RDs; on the MBR in the Hahns Peak-Bear Ears, Parks, and Yampa RDs; and on the MBNF (no detail information)</p> <p>Although habitat for this species may be widespread in the mountains of R2, populations are scarce.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> <li>• USDA, NRCS. 2002. The PLANTS Database, Version 3.5 (<a href="http://plants.usda.gov">http://plants.usda.gov</a>). <a href="http://plants.usda.gov">National Plant Data Center</a>, Baton Rouge, LA 70874-4490 USA. (Accessed September 22, 2002)</li> <li>• NatureServe Explorer: An online encyclopedia of life [web application]. 2001. Version 1.6 . Arlington, Virginia, USA: <a href="http://www.natureserve.org/explorer">http://www.natureserve.org/explorer</a>. (Accessed: September 22, 2002)</li> </ul>
<p><b>2</b> Distribution outside R2</p>	<p><b>B</b></p>	<p><i>C. fasciculatum</i> is reported from ID, CA MT, WA, and UT . No detailed information is available on populations outside CO. The species is ranked S1 in UT, S3/S2 in CA, and S2 in MT, WA, and OR. It appears this species has limited distribution outside R2.</p> <p>Confidence in Rank: Medium</p>	<ul style="list-style-type: none"> <li>• IBID</li> </ul>

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3 Dispersal Capability	<b>D</b>	<p>Although no detailed information is available for <i>C. fasciculatum</i>, the orchid family shows great variation and complexity in flowers that are structurally arranged to facilitate insect pollination. Flowers of this species are shaped like a miniature moccasin. It reproduces primarily by seed, but has been found to be rhizomatous. Seeds are produced in capsules just below the flower. When ripe, the capsules split open and the tiny seeds are dispersed by wind. However, without further investigation, information is not available on distances between adjacent or widely separated populations in the western US. Therefore, the author is unable to reliably determine dispersal capability of this species.</p> <p>Confidence in Rank: Medium</p>	<ul style="list-style-type: none"> <li>• IBID</li> <li>• Long, John C, 1965, Native Orchids of Colorado, Denver Museum of Natural History, City Park, Denver, Colorado</li> </ul>
4 Abundance in R2	<b>A</b>	<p>One informal note in the provided reference material, indicates that USFS had a monitoring plan proposed for the Mahan Lake Timer Sale in the Dillion RD in 1997. However, this author was unable to locate any information on implementation or results of a <i>C. fasciculatum</i> monitoring study. In 1991, surveys for the plant were conducted in CO; the report indicates population sizes ranging from 20 to 60 individuals. Considering the limited number of occurrences in R2 with only one report of abundance, it would appear this species is scarce and potentially isolated in R2.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> <li>• IBID</li> </ul>
5 Population Trend in R2	<b>D</b>	<p>One, in 1991, reported <i>C. fasciculatum</i> as having stable populations in CO. However, based on one report more than 10 years ago, the author does not believe there is adequate information on which to base a ranking for population trend in R2.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> <li>• IBID</li> </ul>
6 Habitat Trend in R2	<b>D</b>	<p>There are thousands of acres of habitat for this orchid in R2 and trends in these habitats are likely available. However, the author did not locate sufficient information on trends to include in this evaluation.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> <li>• IBID</li> </ul>

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<b>7</b> Habitat Vulnerability or Modification	<b>B</b>	Little detailed information is available on threats to <i>C. fasciculatum</i> populations or suitable habitat. However, references indicate suitable habitat is under little threat and the orchid is particularly tolerant of disturbances, including trampling. One reference indicates that logging, road-building, and trampling by tourists apparently do not discourage the plant. Another reference indicates these orchids may be threatened by trampling along trails on USFS lands. Based on limited populations and lack of information, the author has rated this species B.  Confidence in Rank Medium	<ul style="list-style-type: none"> <li>• IBID</li> </ul>
<b>8</b> Life History and Demographics	<b>D</b>	There is no known published or unpublished information about the population biology, ecology, or demographics of <i>C. fasciculatum</i> .  Confidence in Rank Medium	<ul style="list-style-type: none"> <li>• IBID</li> </ul>
Initial Evaluator(s):  Janice P. McKee, Botanist			Date: 09/24/02

**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
Arapaho-Roosevelt NF	X	Cimmaron NG		Samuel R. McKelvie NF		Black Hills NF		Shoshone NF	
White River NF				Halsey NF		Buffalo Gap NG		Bighorn NF	
Routt NF				Nebraska NF		Ft. Pierre NG		Black Hills NF	
Grand Mesa, Uncompahgre, Gunnison NF				Ogalala NG				Medicine Bow NF	X
San Juan NF	X							Thunder Basin NG	
Rio Grande NF									
Pike-San Isabel NF	X								
Comanche NG									