

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

| Species: <i>Muhlenbergia glomerata</i> (Willd.) Trin. / Marsh or Spiked Muhly / MUGL3 |      |   |   |
|---|------|---|---|
| Criteria  | Rank | Rationale   | Literature Citations  |
| 1<br>Distribution within R2   | B    | Found in Nebraska, South Dakota and Wyoming, and possibly in Colorado.<br><br>Confidence in Rank <b>High</b>  | <ul style="list-style-type: none"> <li>NatureServe, 2001</li> <li>PLANTS, NRCS, 2001</li> </ul>   |
| 2<br>Distribution outside R2  | C    | Occurs throughout the northern half of the United States and most of Canada. Occurs outside of Region 2 in Wyoming.<br><br>Confidence in Rank <b>High</b>   | <ul style="list-style-type: none"> <li>NatureServe, 2001</li> <li>PLANTS, NRCS, 2001</li> <li>Fertig, 2001</li> </ul>   |
| 3<br>Dispersal Capability   | B    | Long distance dispersal unlikely. Seeds small. Dispersal may not depend entirely on specific habitats.<br><br>Confidence in Rank <b>Medium</b>  | <ul style="list-style-type: none"> <li>2001 Monitoring and Survey data, BHNF</li> </ul>   |
| 4<br>Abundance in R2  | C    | Currently ranked S1 in Wyoming S2 in Nebraska. Conflicting reports about its occurrence in Colorado. Currently, there are 16 verified locations, with the possibility of more, in the Black Hills, most of which are in South Dakota. Many of these sites were found during the 2001 field season. At least in South Dakota, <i>Muhlenbergia glomerata</i> is more common than previously thought. Habitat varies considerably, and the species may be underreported as it was originally thought to be more habitat specific. In the past this species was also mis-identified with <i>M. racemosa</i> therefore it was underreported as well. More sites have been located in the 2002 field season (verification pending).<br>Confidence in Rank <b>Medium</b> | <ul style="list-style-type: none"> <li>NatureServe, 2001</li> <li>PLANTS, NRCS, 2001</li> <li>Fertig, 2001</li> <li>2001 Monitoring and Survey data, BHNF</li> <li>2002 Monitoring and Survey data, BHNF</li> </ul> |
| 5<br>Population Trend in R2   | D    | Trend in the region unknown.<br><br>Confidence in Rank <b>High</b>  | <ul style="list-style-type: none"> <li>2001 Monitoring and Survey data, BHNF</li> </ul>   |
| 6<br>Habitat Trend in R2  | B    | Habitat varies from fens and streamsides to rather dry locations. Does not seem to prefer a single habitat. Historically, riparian areas have declined in the Black Hills. They are subject to development for recreation purposes, and can be altered by road construction and agricultural purposes.<br>Confidence in Rank <b>Medium</b>  | <ul style="list-style-type: none"> <li>2001 Monitoring and Survey data, BHNF</li> <li>Parrish et al., 1996</li> </ul>   |

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| 7<br>Habitat Vulnerability or Modification  | D   | Until a better idea of the habitat range is gained, it is difficult to make characterizations of habitat vulnerability. Historically, riparian areas have declined in the Black Hills. They are subject to development for recreation purposes, and can be altered by road construction and agricultural purposes.<br><br>Confidence in Rank <b>Medium</b>  | <ul style="list-style-type: none"> <li>• 2001 Monitoring and Survey data, BHNF</li> <li>• Parrish et al., 1996</li> </ul> |
| 8<br>Life History and Demographics  | B/C   | <i>Muhlenbergia glomerata</i> is short rhizomatous, so it can spread asexually. Seeds probably do not spread long distances. Since <i>Muhlenbergia glomerata</i> appears to prefer open habitats in the Black Hills, the 125,000+ acres of fires in 2000 & 2001 may have created additional habitat (2 new sites were located in the Jasper fire area in 2001).<br><br>Confidence in Rank <b>Medium</b> | <ul style="list-style-type: none"> <li>• Larson, 1993</li> <li>• 2001 Monitoring and Survey data, BHNF</li> </ul>         |
| Evaluator(s):   | Reed Wight Crook – Botanist, Black Hills National Forest<br>Darcie J. Bacon – Botanist, Black Hills National Forest |   | Date: 3 Dec. 2001<br>Updated July 26, 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 |
| Arapaho-Roosevelt NF                       | ?      | Cimarron NG         |        | Samuel R. McKelvie NF | ?      | Black Hills NF            | X      | Shoshone NF          | ?      |
| White River NF                             | ?      |                     |        | Halsey NF             | ?      | Buffalo Gap NG            | ?      | Bighorn NF           | ?      |
| Routt NF                                   | ?      |                     |        | Nebraska NF           | ?      | Ft. Pierre NG             | ?      | Black Hills NF       | X      |
| Grand Mesa,<br>Uncompahgre,<br>Gunnison NF | ?      |                     |        | Ogalala NG            | ?      |                           |        | Medicine Bow NF      | ?      |
| San Juan NF                                | ?      |                     |        |                       |        |                           |        | Thunder Basin NG     | ?      |
| Rio Grande NF                              | ?      |                     |        |                       |        |                           |        |                      |        |
| Pike-San Isabel NF                         | ?      |                     |        |                       |        |                           |        |                      |        |
| Comanche NG                                | ?      |                     |        |                       |        |                           |        |                      |        |
| Pawnee NG                                  | ?      |                     |        |                       |        |                           |        |                      |        |

**References**

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**Muhlenbergia glomerata**  
**Black Hills National Forest**

