

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Polygonatum biflorum</i> / Common Solomon's seal			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	AD	<p>Common Solomon's seal occurs at the western limits of its distribution in the Black Hills in Crook County, Wyoming, on the Black Hills National Forest. It also occurs in Kansas, Nebraska, and South Dakota. Therefore, additional information is necessary in order to determine its status in Region 2.</p> <p>Rangewide, this species is found in moist deciduous forests, woods, and thickets. Wyoming populations are found in bur oak-ironwood or paper birch/American elm streamside forests and bottomlands at 3800 to 4000 feet. Intact examples of this habitat are isolated and very discontinuous on the landscape.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Dorn 2001 • Fertig 2001 • Gleason and Cronquist 1991 • University of Wyoming 1998
2 Distribution outside R2	C	<p>Common Solomon's seal is known from southern New England to Manitoba and northeast Wyoming, south to Florida and northern Mexico.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Fertig 2001 • Gleason and Cronquist 1991 • Great Plains Flora Association 1986 • Larson and Johnson 1999
3 Dispersal Capability	CD	<p>Some birds are known to eat the fruit (berries), therefore, it may be inferred that there is some animal dispersal across unsuitable habitat.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Martin et al. 1951
4 Abundance in R2	AD	<p>Common Solomon's seal is known from 2 occurrences in Wyoming, last surveyed in 1979. One occurrence is on the Black Hills National Forest. Dorn estimated the populations to contain 20-100 individuals in a 1979 element abstract. The total range is limited to less than 4 acres. This species is ranked "S1" in Wyoming and it is present but not ranked in Kansas, Nebraska, and South Dakota.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Fertig 2001 • USDA Forest Service 2001 • WYNDD 2002
5 Population Trend in R2	D	<p>Not known.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • -

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6 Habitat Trend in R2	D	Not known. Confidence in Rank High	• -
7 Habitat Vulnerability or Modification	BD	Common Solomon's seal may be threatened by over-collection and loss of habitat to recreation, logging, or grazing. It occurs in the Dugout Gulch Special Botanical Area on the Black Hills National Forest. Confidence in Rank High	<ul style="list-style-type: none"> • Fertig 2001 • WYNDD 2002
8 Life History and Demographics	D	Common Solomon's seal is a rhizomatous, perennial forb. Flowering and fruiting occur from May through July. 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	<ul style="list-style-type: none"> • Fertig 2001 • Gleason and Cronquist 1991 • Great Plains Flora Association 1986
Initial Evaluator(s): Joy Handley, Bonnie Heidel and Scott Laursen			Date: April 29, 2002

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

¹ 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			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	X	
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

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