

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Lilium philadelphicum</i> /(Wood Lily)			
Criteria	Rank	Rationale	Literature Citations
<p>1 Distribution within R2</p>	<p>A</p>	<p><i>L. philadelphicum</i> is a large, red-orange to brick-red, lily that occurs in moist woods, thickets and wet meadows in 19 counties in CO (S2) and has been reported from WY (SR). It appears this species has patchy and potentially isolated distribution in R2. It is known to occur on the PKSI in the Pikes Peak, Salida, San Carlos, and South Platte RDs, on the ARP in the Boulder, Estes-Poudre, and Redfeather Districts; on the SJ&RGNF in the Columbine, Divide, and Pogosa RDs. However, no details on these occurrences are available. However, based on information available, this species likely occurs in isolated patches in R2.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> • CNHP • USDA, NRCS. 2002. The PLANTS Database, Version 3.5 (http://plants.usda.gov). National Plant Data Center, Baton Rouge, LA 70874-4490 USA. (Accessed September 28, 2002) • NatureServe Explorer: An online encyclopedia of life [web application]. 2001. Version 1.6 . Arlington, Virginia, USA: http://www.natureserve.org/explorer. (Accessed: September 28, 2002) • Jennings, William F. 1991. Status report on four plants considered rare in Colorado, <i>Cypripedium fasciculatum</i>, <i>Lilium philadelphicum</i>, <i>Pyrola picta</i>, <i>Goodyera repens</i>. Prepared for USDA Forest Service.
<p>2 Distribution outside R2</p>	<p>C</p>	<p>In the continental US, <i>L. philadelphicum</i> occurs in 29 states. It also occurs in most provinces of Canada. This species is listed as threatened in KT and OH; and endangered in NM and TN; and presumed extirpated in MD. Although detailed information is not available on distribution of this species outside R2, it appears to be widely distributed.</p> <p>Confidence in Rank: Medium</p>	<ul style="list-style-type: none"> • IBID

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Criteria	Rank	Rationale	Literature Citations
3 Dispersal Capability	B	<i>L. philadelphicum</i> is an obligate out-crosser, i.e., requires pollination from another plant. It is, primarily, visited by large butterflies that are not active in the rain. Swallowtail butterflies have been observed most frequently visiting this species. <i>L. philadelphicum</i> , like all lilies, grows from underground bulbs. The plant can, produce seeds, but reproduction is generally thought to be through aboveground aerial bulblets. No detailed information is available for <i>L. philadelphicum</i> 's dispersal capability, but based on potentially limiting cross-pollination, isolated populations may be limited in their dispersal capabilities. Therefore, it is likely <i>L. philadelphicum</i> disperses only through suitable habitat within its range and is ranked B.	<ul style="list-style-type: none"> • IBID • Edwards, Joan, James R. Jordon. 1992. Reversible Anther Opening in <i>Lilium philicelphicum</i> (Liliaceae): A possible means of enhancing male fitness. Amer. Journ. Bot.: 79(2): 144-148.
4 Abundance in R2	A	No information is available on abundance of <i>L. philadelphicum</i> in R2. However, based on its' limited distribution, it is likely species abundance is low in R2. Confidence in Rank Medium	<ul style="list-style-type: none"> • IBID
5 Population Trend in R2	D	No information is available on population trends of <i>L. philadelphicum</i> in R2. Confidence in Rank Medium	<ul style="list-style-type: none"> • IBID
6 Habitat Trend in R2	D	No information is available on habitat trends for the habitats of <i>L. philadelphicum</i> in R2. Confidence in Rank Medium	<ul style="list-style-type: none"> • IBID
7 Habitat Vulnerability or Modification	D	Because this species is large and attractive, it may be vulnerable to over-picking. Some populations are near roads or trails where the plants are visible. However, no detailed information is available on threats to <i>L. philadelphicum</i> . Based on lack aof information, this species is ranked D. Confidence in Rank Medium	<ul style="list-style-type: none"> • IBID
8 Life History and Demographics	D	There is no known published or unpublished information about the biology, ecology, or demography of <i>L. philadelphicum</i> . Confidence in Rank Medium	<ul style="list-style-type: none"> • IBID
Initial Evaluator(s): Janice P. McKee, Botanist			Date: 09/28/02

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

<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	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	X					Ogalala NG						Medicine Bow NF		
San Juan NF	X											Thunder Basin NG		
Rio Grande NF	X													
Pike-San Isabel NF	X													
Comanche NG														

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.