

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Eriophorum viridicarinatum</i> / Green Keeled Cottongrass			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	AD	<p>Green Keeled Cottongrass occurs in the northern Absaroka Range in Park County, Wyoming, on the Shoshone National Forest. It also occurs in Colorado, therefore, additional information is needed to determine its status in Region 2.</p> <p>This species inhabits boggy woods and wet meadows in foothills and montane zones. It is found on deep, flooded, or saturated, loamy soils. In Wyoming, its elevational range is from 6,280 to 7,350 feet. Its range in Wyoming is quite restricted.</p> <p>Confidence in Rank Low</p>	<ul style="list-style-type: none"> • Dorn 2001 • Fertig 1998b • Fertig and Jones 1992 • Lesica and Shelly 1991 • Rosenthal 1998, 1999 • University of Wyoming 1998 • WYNDD 2002
2 Distribution outside R2	C	<p>In North America, Green Keeled Cottongrass is found from Newfoundland to Alaska, south to New York, Michigan, and Colorado. In Wyoming, this species is known from outside Region 2 in Jackson Hole and the Yellowstone Plateau in Park and Teton counties.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Fertig 1998a • Hitchcock et al. 1969 • Lesica and Shelly 1991 • Markow and Fertig 1993 • Moseley et al. 1991 • Washington Natural Heritage Program 2000 • WYNDD 2002
3 Dispersal Capability	D	<p>Green Keeled Cottongrass reproduces both sexually and vegetatively. Green-keeled cottongrass may survive fire by sprouting from the rhizomes. The tightly bunched basal leaves may protect it from severe damage from surface fires. It may be inferred that the bristly perianth is appropriate for wind dispersal across unsuitable habitat.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Hitchcock et al. 1969 • USDA Forest Service 2002
4 Abundance in R2	AD	<p>This species is known from 4 occurrences in Wyoming, 2 of which have been discovered or relocated since 1992 (most recently in 1999). Only one of these occurrences is on the Shoshone National Forest. Populations may be locally abundant, but are typically limited to small microsites. Green Keeled Cottongrass is ranked "S1" in Wyoming and "SR" in Colorado.</p> <p>Confidence in Rank Low</p>	<ul style="list-style-type: none"> • Fertig 1998a, b • Fertig and Jones 1992 • Rosenthal 1998, 1999 • University of Wyoming 1998 • WYNDD 2002

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5 Population Trend in R2	D	Not known. Confidence in Rank High	• -
6 Habitat Trend in R2	D	Not known. Confidence in Rank High	• -
7 Habitat Vulnerability or Modification	B	Green Keeled Cottongrass may be threatened primarily by changes in water availability (flooding or draining of its wetland habitat). It occurs in the Swamp Lake Special Botanical Area on the Shoshone National Forest. It also occurs in Grand Teton and Yellowstone National Parks and the National Elk Refuge. Confidence in Rank High	<ul style="list-style-type: none"> • Fertig 1998a, b • Fertig and Jones 1992 • Rosenthal 1998, 1999 • University of Wyoming 1998 • WYNDD 2002
8 Life History and Demographics	D	Green Keeled Cottongrass is a rhizomatous, perennial graminoid. Flowers appear from May to August, and fruits mature from June through September. Additional information on the species, including life history stages, population structure, longevity, mortality, and seed biology, are not available. Confidence in Rank High	<ul style="list-style-type: none"> • Hitchcock et al. 1969 • USDA Forest Service 2002 • WYNDD 2002
Initial Evaluator(s): Joy Handley and Scott Laursen			Date: March 13, 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	X	
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		
San Juan NF												Thunder Basin NG		
Rio Grande NF														
Pike-San Isabel NF														
Comanche NG														

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