

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: Tawny crescent ( <i>Phyciodes batesii</i> )			
Criteria	Rank	Rationale	Literature Citations
<p><b>1</b> Distribution within R2</p>	<p><b>A3</b></p>	<p>Within the region <i>Phyciodes batesii</i> occurs as three subspecies, <i>anasazi</i> along the Colorado River drainage of western Colorado, <i>Dakota</i> in the Black Hills of South Dakota and northeastern Wyoming and <i>apsalookae</i> in the Big Horns of Northern Wyoming. It is usually found as small populations or colonies that have limited exchange with other colonies.</p> <p>Confidence in Rank <b>High</b></p>	<ul style="list-style-type: none"> <li>• Royer, R.A. and G.M. Marrone. 1992. Conservation status of the Bates Crescent (<i>Phyciodes batesii</i>) in North and South Dakota. Report to U.S. Fish and Wildlife Service, Denver, Colorado.</li> <li>• Opler, P.A. 1999. Field Guide to Western Butterflies. Houghton Mifflin Co., Boston, 540 pp.</li> <li>• Scott, J.A. 1994. Biology and systematics of <i>Phyciodes</i> (<i>Phyciodes</i>). <i>Papilio</i> (new series) #7, 120 pp.</li> <li>• Ferris, C.D. 1981. Field study of <i>Phyciodes batesii</i> (Reakirt) and <i>P. tharos</i> (Drury) from a site in the Black Hills, South Dakota (Lepidoptera: Nymphalidae: Melitaeinae). <i>Journal of Research on the Lepidoptera</i> 20(4):235-239.</li> <li>• Opler, Stanford, and Pavulaan. 2001. Butterflies of North America. Web site of USGS.</li> <li>• Ferris and Brown. 1981. Butterflies of the Rocky Mountain States. University of Oklahoma Press, Norman.</li> </ul>
<p><b>2</b> Distribution outside R2</p>	<p><b>C</b></p>	<p>Occurs widely in southern Canada and south sparingly in Appalachian chain in addition to western distribution.</p> <p>Confidence in Rank <b>High</b></p>	<ul style="list-style-type: none"> <li>• Opler, Stanford, and Pavulaan. 2001. Butterflies of North America. Web site of USGS.</li> <li>• Ferris and Brown. 1981. Butterflies of the Rocky Mountain States. University of Oklahoma Press, Norman.</li> </ul>

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Criteria	Rank	Rationale	Literature Citations
3 Dispersal Capability	B	Adults can fly quite well, and are probably efficient at colonizing suitable habitat within short distances.  Confidence in Rank <b>High</b>	<ul style="list-style-type: none"> <li>Opler (personal assessment)</li> </ul>
4 Abundance in R2	B	Many widely distributed colonies within region.  Confidence in Rank <b>Medium</b>	<ul style="list-style-type: none"> <li>Opler (personal assessment)</li> </ul>
5 Population Trend in R2	D	Insufficient information is available upon which to base any sort of estimate. Adults nectar at composites including certain species of asters that constitute their caterpillar host plants.  Confidence in Rank <b>High</b>	<ul style="list-style-type: none"> <li>Opler (personal assessment)</li> </ul>
6 Habitat Trend in R2	D	Insufficient information is available upon which to base any sort of estimate.  Confidence in Rank <b>High</b>	<ul style="list-style-type: none"> <li>Opler (personal assessment)</li> </ul>
7 Habitat Vulnerability or Modification	A	Species is susceptible to extirpation of colonies due to fire, development, invasive alien weeds, and change in grazing regimes. Species range has shrunk greatly in eastern U.S. with only a few colonies extant.	<ul style="list-style-type: none"> <li>Opler (personal assessment)</li> </ul>
8 Life History and Demographics	A	This species is dependant on particular types of habitats, varying somewhat between subspecies, and any alteration of their vegetational composition could result in local extirpations of the species.	<ul style="list-style-type: none"> <li>Opler (personal assessment)</li> </ul>
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National Forests in the Rocky Mountain Region where species is KNOWN (K) or LIKELY(L)<sup>1</sup> to occur:

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

<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.