

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Pyrrcoma clementis</i> Rydb. / Tranquil golden-weed / PYCL2			
Criteria	Rank	Rationale	Literature Citations
<p>1 Distribution within R2</p>	B	<p>Tranquil golden-weed is well distributed through the mountainous parts of central, south-central and southwestern Colorado, in Chaffee, Conejos, Garfield, Gunnison, Hinsdale, La Plata, Mesa, Mineral, Park, and Pitkin counties, including South Park and the upper Rio Grande River drainage.</p> <p>Tranquil golden-weed occurs in the Big Horn and Wind River mountains of Wyoming. The Wyoming populations are disjunct from the main part of the range, which is in western Colorado and Utah.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> Rocky Mountain Herbarium database University of Colorado Herbarium Weber, W.A.. Colorado Flora (3rd edition) Dorn, Vascular Plants of Wyoming (3rd ed.)
<p>2 Distribution outside R2</p>	B	<p>Tranquil golden-weed appears to be endemic to the Southern Rocky Mountains. Outside of R2, PYCL2 occurs only in Utah, where it is locally common in populations scattered throughout the mountainous central part of the state, in the Uinta Mountains And on the Utah Plateaus from San Pete county to Kane and Washington counties.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> PLANTS database A Utah Flora (1987) Intermountain Flora (V. 5) Goodrich & Neese, Uinta Basin Flora (1986)
<p>3 Dispersal Capability</p>	C	<p>Unknown, but probably moderate. <i>P. clementis</i> bears seeds that possess a pappus designed for transport by wind.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> Weber, W.A. Colorado Flora (3rd ed.)
<p>4 Abundance in R2</p>	C	<p>The University of Colorado Herbarium has 19 records for <i>P. clementis</i> representing at least 13 populations in Colorado. The Rocky Mountain Herbarium has five records representing an additional 5 sites in Wyoming. Few of the herbarium labels gives an indication of abundance, but one does note that the species is "frequent".</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> Rocky Mountain Herbarium University of Colorado herbarium

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5 Population Trend in R2	B	<p>Unknown but probably stable following an historic decline. Several sites for <i>Pyrrocoma clementis</i> occur in calcareous fens in South Park, Colorado that have been mined for peat. PYCL2 is available commercially and is prized by rock garden enthusiasts. Small, isolated populations could be affected by overcollection of seeds or plants.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> National Association of Rock Garden Societies web site. Colorado Natural Area Program files
6 Habitat Trend in R2	A	<p><i>Pyrrocoma clementis</i> is a meadow species, occurring in wet to dry meadows, intermountain grasslands, and dry limestone tundra between 7600 and 12,600 feet. This species' grassland habitat has been historically altered by cattle and sheep grazing and subject to invasion by exotic species. A closely related rare goldenweed (<i>Pyrrocoma liatriformis</i>), tolerates a moderate level of competition with exotic species but disappears in habitats that are heavily disturbed and/or dominated by exotics. Several populations in Colorado's South Park are in wetlands that were historically and are still being mined for peat.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> A Utah Flora (1987) Intermountain Flora (V. 5) ID Fish & Game, Species abstract for <i>Haplopappus liatriformis</i> (2002) Intermountain Flora (V. 5) Weber, W.A.. Colorado Flora (3rd edition) Harrington, Manual of the Plants of Colorado (1964)
7 Habitat Vulnerability or Modification	A	<p>This species grows in habitats that are relatively vulnerable to alteration of hydrology, overgrazing, conversion to hay production or invasion by exotic weedy species. One Colorado population is within the High Creek Fen Natural Area/Preserve. Others occur within the Fossil Ridge, Weminuche and Buffalo Peaks wilderness areas. One Wyoming population is on the Wind River Indian Reservation. Most of the other collections from R2 were from lands administered by the USDA-Forest Service and managed for multiple uses, or on private lands.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> Rocky Mountain Herbarium University of Colorado herbarium

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<p>8 Life History and Demographics</p>	<p>D</p>	<p>Taprooted perennial herb. The closely related <i>Haplopappus (Pyrrocoma) liatrifomis</i> presumably reproduces through production of seed. No vegetative reproduction has been documented in <i>Pyrrocoma liatrifomis</i>. Pollination is accomplished via insect vectors. Although specific pollinators are unknown, a variety of insects have been observed visiting flowers, including large bumblebees, small wasps and bees, orange skippers, and tiny rove beetles (Gamon 1991). Seeds are probably wind dispersed, although some seed movement may be achieved through animal vectors. Plants generally occur as scattered individuals or in small clusters. Insect seed predation has been observed and can be heavy.</p> <p>Confidence in Rank LOW</p>	<ul style="list-style-type: none"> • Intermountain Flora (V. 5) • ID Fish & Game, Species abstract for <i>Haplopappus liatrifomis</i> (2002)
<p>Evaluator(s): Janet J. Coles</p>			<p>Date: September 29, 2002</p>

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>		<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	Known Likely	Known Likely
Arapaho-Roosevelt NF		Cimarron NG		Samuel R.McKelvie NF		Black Hills NF		Shoshone NF			X
White River NF	X			Halsey NF		Buffalo Gap NG		Bighorn NF		X	
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											
Pawnee NG											