

Added to CNPS Inventory on June 1, 2011

Rare Plant Status Review: *Boechera rollei*
Proposed New Add to Rank 1B.2 1, G1 / S1
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April 11, 2011

Changes made to original document appear in blue text.

Background

Boechera rollei is a perennial herb in the Brassicaceae known only from one occurrence in Siskiyou County, California. It is included in the *Flora of North America* (Volume 7), and will be included in *The Jepson Manual, Second Edition* (available online at:

http://ucjeps.berkeley.edu/tjm2/review/treatments/brassicaceae_all.html#81769). *Boechera rollei* was originally described as *Arabis rollei* by Rollins (1993), and is included in *The Jepson Manual* (1993) under his treatment. It was later transferred to the genus *Boechera* (along with numerous additional *Arabis* taxa) by Ihsan Al-Shehbaz in 2003. *Boechera rollei* is a distinctive sexual species with creamy white petals and pendant fruits that are not appressed to the rachis. It is distinguished from the habitually similar *B. suffrutescens* by having longer petals and narrower fruits and seed wings. *Boechera rollei* is known to flower in August.

Boechera rollei occurs along peridotite rocks on sparsely forested slopes of upper montane coniferous forest. It grows at an approximate elevation of 1600 to 1800 meters.

Boechera rollei is known only from the type locality on the divide between the Applegate and Klamath Rivers in Siskiyou County (*W. E. Rolle 831*). It was last documented in 1985 by Rolle near Lilypad and Towhead Lakes in the Red Butte and Kangaroo Mountain region. Future surveys of *B. rollei* within the vicinity of this region and the Siskiyou Mountains should be conducted in attempts to update this historic record, in addition to potentially discovering new occurrences.

Threats to *B. rollei* are unknown, however with only one known occurrence it should be considered of conservation concern.

Recommended Actions

CNPS: Add to CNPS 1B.2 1

CNDDDB: Add to CNDDDB G1 / S1

Please review the draft CNPS Inventory record below, respond Yes or No on the proposal to add this species to the Inventory and CNDDDB, and provide any edits/comments. If responding No, please provide supporting information.

Draft CNPS Inventory Record

Boechera rollei (Rollins) Al-Shehbaz

Rollin's Rolle's rockcress

Synonym(s): *Arabis rollei*

Brassicaceae

Rank 1B.2 1

Siskiyou

Kangaroo Mtn. (736B) 4112382

Upper montane coniferous forest/Peridotite rocks on sparsely forested slopes; elevation 1600 to 1800 meters.

Perennial herb. Blooms Aug.

Known from only one occurrence on the divide between the Applegate and Klamath Rivers. See *Harvard Papers in Botany* 4:43-48 (1993) for original description and *Novon* 13(4):381-391 (2003) for taxonomic treatment.