

**Added to List/Rank 1B.2 of CNPS Inventory on May 6, 2011**

**Rare Plant Status Review: *Boechera serpenticola***

**Proposed New Add to Rank 1B.2, G1 / S1**

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March 28, 2011

**Background**

*Boechera serpenticola* is a perennial herb in the Brassicaceae known only from two occurrences in Shasta and Trinity Counties of 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#85540](http://ucjeps.berkeley.edu/tjm2/review/treatments/brassicaceae_all.html#85540)).

*Boechera serpenticola* produces flowers with sexually diploid pollen. It was originally identified as *B. subpinnatifida*, but can be distinguished from this species by its divaricate and sparsely pubescent fruits, shorter petals, longer styles, entire leaves, and strongly caespitose habit (Windham and Al-Shehbaz 2006). *Boechera serpenticola* flowers from March to June.

*Boechera serpenticola* occurs along open to sparsely covered serpentine ridges and talus throughout coniferous forests at an approximate elevation of 1,100 to 2,100 meters.

*Boechera serpenticola* is known only from two collections; from Hobo Gulch Camp and vicinity at the North Fork of the Trinity River, Trinity County, in 1972 (Ella Carter CAS618361), and near the summit of Bully Choop Mountain, Shasta County, in 1993 (Dean Wm. Taylor JEPS90963). Future surveys for *B. serpenticola* within the vicinity of the North Fork Trinity River and Trinity Mountains should be conducted in attempts to potentially discover additional occurrences of this newly described species.

Threats to *B. serpenticola* are unknown, however with only two known occurrences it should be considered for conservation concern.

**Recommended Actions**

CNPS: Add to CNPS 1B.2

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.

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**Draft CNPS Inventory Record**

*Boechera serpenticola* Windham & Al-Shehbaz

serpentine rockcress

Brassicaceae

Rank 1B.2

Shasta, Trinity

Bully Choop Mtn. (649D) 4012257, Thurston Peaks (668B) 4012382

Lower montane coniferous forest, Upper montane coniferous forest/serpentine ridges and talus; elevation 1100 to 2100 meters.

Perennial herb. Blooms Mar-Jun.

Known from only two occurrences on Bully Choop Mtn. and North Fork Trinity River. Similar to *B. subpinnatifida*. See *Harvard Papers in Botany* 11(1):61-88 (2006) for original description.