

Rare Plant Status Review: *Minuartia stricta*
Proposed New Add to List 2.3, G5 S2

Nicholas Jensen (CNPS), Belinda Lo (CNPS), and Roxanne Bittman (CNDDDB)
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Changes made since the original status review are in blue.

Background

Minuartia stricta is an herbaceous perennial in the Caryophyllaceae. It is included in the *Jepson Manual* (1993), the *Flora of North America* (Vol. 5) and will be included in the *Jepson Manual* (2nd Edition, treatment available at <http://ucjeps.berkeley.edu/tjm2/review/treatments/caryophyllaceae.html>). *Arenaria rossii* (Jepson 1993) and *Minuartia rossei* (Taylor 1996) are names that have both been misapplied to *M. stricta*. According to *Flora of North America* (Vol. 5), *Spergularia stricta*, *Alsinnanthe stricta*, *Arenaria stricta*, and *Arenaria uliginosa* are all synonyms of *M. stricta*. *M. stricta* has sometimes been included within *M. michauxii*.

M. stricta is differentiated from other species of *Minuartia* based on it being perennial, its growth structure, and flower characteristics. *M. stricta* flowers between July and August (and possibly into September).

In California, *M. stricta* is known from moist granitic gravelly sites, sedge meadows, and other alpine habitats from 2440 to 3960 meters in elevation.

In California, *M. stricta* is known from approximately 15 occurrences in 4 counties in the central and southern high Sierra Nevada, and the White and Inyo Mountains. It is ranked as a G5 taxon by NatureServe. *M. stricta* is found as far north as Mono County and as far south as Inyo and Tulare County. *M. stricta* is a circumboreal species, and occurs in Alaska, Idaho, Illinois, Massachusetts, New Hampshire, Rhode Island, Utah, and 9 provinces in Canada. Outside of North America it is found in Greenland and Asia (*Flora of North America*, Tropicos). *M. stricta* is ranked by NatureServe as an S1 taxon in Colorado, an S2S3 taxon in Illinois and British Columbia, and an S3S4 taxon in Quebec.

There are no known threats to occurrences of *M. stricta* but since occurrences are found strictly in alpine habitats, and they could be threatened by global warming. The population size, population trends, area of occupancy, and land ownership at occurrences of *M. stricta* are not well known.

M. stricta is found in a relatively large geographic area (12 quads in 4 counties), but is restricted to alpine habitat and is more common outside of California.

Based on the current information and the available data, CNPS and CNDDDB recommend that *M. stricta* should be added to List 2.3, G5 S2.

Recommended Actions

CNPS: Add to CNPS List 2.3

CNDDDB: Add to CNDDDB as G5 / S2

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

Minuartia stricta (Swartz) Hiern

Bog sandwort

Caryophyllaceae

List 2.2

Inyo, Madera, Mono, Tulare

Cirque Peak 329B (36118D2), Convict Lake 434D (37118E7), Dunderberg Peak 471D (38119A3), Juniper Mtn. 431B (37118F2), Koip Peak 453C (37119G2), Mineral King 331A (36118D5), Mount Dana 453B (37119H2), Mount Patterson 488A (38119D3), ~~Mt. Barcroft 431C (37118E2)~~, Mt. Langley 351C (36118E2), Mt. Ritter 435B (37119F2), Mt. Thompson 394A (37118B5)

Meadows, Alpine communities. 2440-3960 meters

Herbaceous perennial. Blooms July-September.