

Added to California Rare Plant Rank 2B.3 of the CNPS Inventory on May 22, 2014

**Rare Plant Status Review: *Meesia longiseta*
Addition to California Rare Plant Rank 2B.3, G5 / S2**

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Meesia longiseta is a moss in the Meesiaceae that is known from North America, boreal and arctic Eurasia, and in California from the Sierra Nevada and the Marble Mountain Wilderness. It forms tufts of erect, sparsely branched stems of up to 5 mm long.

Meesia longiseta occurs in moist, calcareous soil along streams and in meadows and fens of coniferous forest (Malcom et al. 2009; CBWG 2013), at an approximate elevation of 1,750 to 3,045 meters in California.

Meesia longiseta is known from approximately six occurrences in California. Five of its occurrences are from the eastern Sierra Nevada in Madera, Mono, Nevada, Plumas, and Tuolumne counties, and a single occurrence is known from the Marble Mountain Wilderness in Siskiyou County. All of its occurrences, with the potential exception of one occurrence from Bowman Lake (*Ahart 10609*), are considered recent (occurrences not 'seen' in the past twenty years are considered historical by the CNDDDB). It is expected that additional occurrences of *M longiseta* will show up; without capsules, *M. longiseta* can be easily overlooked (Malcom et al. 2009), and surveys should be conducted in its potential habitat in attempts to discover new populations.

Meesia longiseta is ranked S1 in Idaho and Montana, SH in New York, and unranked by NatureServe (2012) in other states. It is also ranked by NatureServe (2012) in four Canadian provinces.

Threats to *M. longiseta* in California are unknown. All of its known occurrences are on protected federal lands, and therefore threats are expected to be minimal at this time. If additional surveys result in many new populations being discovered, its status will be re-evaluated at that time.

Actions

CNPS: Added to 2B.3

CNDDDB: Added to G5 / S2

CNPS Inventory Record

Meesia longiseta Hedwig

long seta hump moss

Meesiaceae

CRPR 2B.3

Alaska, Idaho, Illinois, Massachusetts, Maine, Montana, New York, Ohio

Madera, Mono, Nevada, Plumas, Siskiyou, Tuolumne

Mammoth Mtn. (435A) 3711961, Tioga Pass (454A) 3711983, Dunderberg Peak (471D) 3811913, English Mtn. (556A) 3912045, Mt. Harkness (625A) 4012143, Boulder Peak (719D) 4112351

Bogs and fens, meadows and seeps, upper montane coniferous forest / carbonate, on soil; elevation 1,750 to 3,045 meters.

Moss

Easily overlooked without capsules. See *Madroño* 51(1):75 (2004) and 51(2):146 (2004) for CA treatment.

Literature Cited

Malcolm B., N. Malcolm, J. Shevock, and D. Norris. 2009. California Mosses. Micro-Optics Press. 430 pp.

NatureServe. 2013. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Website <http://www.natureserve.org/explorer> [accessed 25 January 2013].

Norris, D.H. and J.R. Shevock. 2004. Contributions toward a bryoflora of California: I. a specimen-based catalogue of mosses. *Madroño* 51(1).

_____. 2004. Contributions toward a bryoflora of California: II. a key to the mosses. *Madroño* 51(2).