**\***֎***Porotrichum bigelovii*  (Sulivant) Kindberg – Bigelow’s porotrichum moss**

**Neckeraceae**

Account written by Derek Antonelli on 2/6/2021 ֎\*

S2 Rank recommend by North Idaho Rare Plant Working Group on 2/10/2021

**Current Conservation Status:**

\*NatureServe3: G4, Idaho SNR, Montana S1, British Columbia S4S5, Montana S1, Washington SNR, Oregon SNR

2009 INPS rank²: Not listed

BLM: Not listed

FS Reg 1: Not listed

FS Reg 4: Not listed

FS Reg 6: Not listed

FWS: Not listed

**Taxonomy:** *Canad. Rec. Sci. 6: 18. 1894.*

*Synonyms:* *Porothamnium bigelovii, Hypnum bigelovii, Thamnobryum bigelovii, Thamnium bigelovii*

*Other Subspecies/Varieties, if applicable:*

*Type Locality:*

*\*Taxonomic key(s)7:* Flora of North America, Volume 28.

**Species Description (OPTIONAL):** **Plants**2–5 cm. **Primary** stems complanate-foliate. **Primary** stem leaves erect-spreading, deltoid, 1–2 mm; margins plane, entire to slightly serrulate; apex acute; costa double, short, or single; basal laminal cells elongate-rhomboidal, 4–10 × 1 µm, smooth; apical cells elongate-rhomboidal, 5–8 µm. **Secondary** stem leaves 2.5–3 mm; basal laminal cells 8 × 1 µm; medial cells 5–10 × 1 µm; apical cells rhombic to rhomboidal, 3–5 × 2–3 µm. **Branch** leaves erect to erect-spreading, 1.5 mm; costa to 3/4 leaf length; basal laminal cells 7–10 × 2–3 µm; medial cells 3–7 × 2 µm; apical cells rhombic 3–4 × 2 µm. **Perichaetial** inner leaves with margins serrate distally, ecostate or costate, distal medial laminal cells fusiform to linear. **Seta** reddish brown. **Capsule** erect to horizontal; exostome teeth from broad base tapering toward apex; endostome cilia present.

**Biology:** Life span (perennial), growth form (moss); note if parasitic; capsules mature Mar–Aug.

**Similar species:** Scientific name of species, but not specific attributes

**Habitat:** Soil, rock, logs, under shaded cliffs or shaded boulders by streams, wet rock crevices in forests. Elevation low to moderate elevations (0-600 m)

*\*֎Environmental Specificity10:*

**Cultural and commercial values:**

**Landownership:**  Federal, private

**Distribution:**

*Global Range*:



*\*Range Extent Descriptor6:* Peripheral

֎*Rank Calculator Idaho Range Extent:* Approximately 10,350 sq km **(E)**.

֎*Area of Occupancy:* Seven 4-km2 grid squares

*\*Idaho Counties9:* Benewah, Bonner, Clearwater, Idaho Kootenai

*Idaho Specimens:*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Record source (Herbarium, IFWIS, person)** | **Date observed/ collected** | **Observer** | **County** | **Location** | **Abundance, threats, habitat condition** |
| NY, UMich, UTenn, WIS, Yale | 1888 thru 1891 | Leiberg | Bonner/Kootenai | Multiple around Lake Pend Oreille | Historic |
| USU, UBC | 7/10/1997 | Hanson M510 | Idaho | Salmon River- Mann Creek |  |
| WS | 3/20/2000 | Bjork 5147 | Idaho | Lolo Creek Canyon |  |
| NY, UBC | 5/31/2000 | Gray 1676 | Clearwater | Dworshak Big Eddy |  |
| NY, UBC | 6/6/2000 | Gray 1892 | Clearwater | Dworshak mouth Ove Creek |  |
| NY, WTU, UI, MO | 7/27/2000 | Gray 2359, 2360, 2361 | Clearwater | Dworshak Elk Cr Arm |  |
| UBC | 7/12/2002 | Bjork 6355 | Benewah | St Maries River |  |
| UI | 7/7/2012 | Antonelli s.n. | Bonner | Hager Lake |  |

*Literature Records:*

*Databases/Herbaria consulted (and query date):* See below

*Research Notes:*

**Abundance:**

*\*֎Number of Occurrences8:* Seven population locations plus two historic locations **(B)**

*֎Population Size:* Unknown **(U)**

*֎Number of Occurrences with Good Viability:* Population viability not assessed so between zero and seven **(AC)**

**Conservation concerns:**

*֎Threats (include scope, severity and timing, if known):* No information on threats

*\*֎Overall Threat Rank11:* Unknown **(U)**

*֎Intrinsic Vulnerability:* (Optional; Used only if Threats unknown. A= highly, B=moderately, C=not intrinsically vulnerable.)

**Population trend:**

*֎Short:*

*֎Long:*

**Proposed rank information:**

*\*Date Ranked5:* Reviewed by North Idaho Rare Plant Working Group on 2/10/2021

*\*Proposed Rank:* S2

*\*Proposed INPS Status2:* Rare

*\*Comments12:*

**\*Recommended actions13:**

**Information Sources:**

Consortium of Pacific Northwest Herbaria. (<http://www.pnwherbaria.org>, February 2021).

Consortium of North American Byrophyte Herbaria. (<https://bryophyteportal.org/portal>, February 2021).

Flora of North America, Volume 28.

McClune, B. and M. Hutten. 2018. *Common Mosses of Western Oregon and Washington*. 148pp.

NatureServe Explorer. (<http://explorer.natureserve.org>, February 2021)