*Pyrrocoma racemosa var. panicultata* – clustered goldenweed

[Asteraceae](http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=10074) – Aster family

 Sandy Smith 02/01/2022

S1 Recommended Rank assigned by South Idaho Rare Plant Working Group on 2/5/2021

**Current Conservation Status:**

\*NatureServe3: G5T4 S1

2009 INPS rank²: S review

BLM: No status

FS Reg 1: out of range

FS Reg 4: not listed

FS Reg 6: not listed

FWS: not listed

**Taxonomy:** **Pyrrocoma** **racemosa** (Nuttall) Torrey & A. Gray **var.** **paniculata** (Nuttall) Kartesz & Gandhi, Phytologia. 71: 610. 1991.

*Synonyms:* Haplopappus paniculatus var. virgatus, Haplopappus racemosus subsp. brachycephalus, Haplopappus racemosus subsp. duriuscula, Haplopappus racemosus subsp. glomeratus, Haplopappus racemosus subsp. halophilus, Haplopappus racemosus subsp. prionophyllus, Haplopappus racemosus var. glomerellus, Haplopappus racemosus var. paniculatus, Haplopappus racemosus var. prionophyllus, Homopappus paniculatus

*Other Subspecies/Varieties:* This is the only variety of P. racemosa to have been found in Idaho so ranking applies to the species as well as the variety for Idaho.

*Type Locality:* Grande Ronde prairie, Oregon, specimen at [***Royal Botanic Garden Edinburgh***](http://elmer.rbge.org.uk/bgbase/vherb/bgbasevherb.php?cfg=bgbase/vherb/bgbasevherb.cfg&specimens_barcode=E00413338)

*\*Taxonomic key(s)7:* FPNW edit. 2, Flora of Idaho, IMF Vol. 5 (as Haplopappus)

**Species Description (OPTIONAL):** **Plants** 20–75 cm. **Stems** glabrous. **Leaves:** basal blades oblanceolate to elliptic, 50–250 × 5–25 mm, rather thick and succulent, margins entire or denticulate, faces glabrous, often glaucous. **Heads** pedunculate or sessile, often crowded distally, in narrowly paniculiform, racemiform, or spiciform arrays. Flowers yellow. **Involucres** hemispheric, 6–8 × 8–12 mm. **Phyllaries:** bases pale, margins sometimes ciliate, apices erect, green, acute, faces glabrous. **Cypsela faces** glabrous or densely sericeous. **2*n*** = 12, 24.

**Biology:** Perennial, forb, reproduces by seed, flowers in July to October

**Similar species:** Pyrrocoma racemosa var. racemosa (not in Idaho per FPNW 2nd edition); Pyrrocoma integrifolia, Pyrrocoma insecticrusis

**Habitat:** Elevation 100-2500m; in Idaho 2350’ to 5720’.; Plant communities; moist, alkaline (calcareously derived) soil

*Environmental Specificity10:* Narrow - only found in moist alkaline sites or saline meadows

**Cultural and commercial values:** none

**Landownership:**  Federal and private, other. Hooper Springs is city or county park. Soda Point/Anderson Reservoir is BLM or private. Emmett and Idahome presumably private.

**Distribution:**

*Global Range*: Western North America - Oregon, Nevada, California, Idaho and Utah

*Range Extent Descriptor:* Peripheral in Idaho

*Rank Calculator Idaho Range Extent:* 7200 square miles historically; recent records only in Caribou County in about 3 square miles. AE

*Area of Occupancy:* Up to 2 4-km sq– other sites extirpated. = AB

*\*Idaho Counties9:* Caribou. Previously found in Cassia and Gem counties.

*Idaho Specimens:*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Record source**  | **Date observed/ collected** | **Observer** | **County** | **Location** | **Abundance, threats, habitat condition** |
| BRYV 0251452 | 1982-08-08 | Elizabeth Neese    | Caribou | Soda Pt. Res, ca. 30 mi NW of Montpelier along Hwy 30. | May be only extant site but as yet not relocated. |
| WTU 162919 | 20/7/1952 | W H Baker | Caribou | Hooper Springs near Soda Springs | Not found at site check 2021 |
| WTU 162915 & WTU 162917 | 27/8/1951 | W H Baker | Cassia | Idahome | Extirpated (site checked 8/2020)  |
| NYBG | 7/8/1937 | J H Christ | Gem  | Emmett | Not relocated or noted in area since original collection |

**Records Determined Not to be P. racemosa var paniculata**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Record source**  | **Date observed/ collected** | **Observer** | **County** | **Location** | **Abundance, threats, habitat condition** |
| CIC | 14/8/2020 | Sandy Smith | Lemhi | Canyon Cr site of Bjork collection | Identified as Pyrrocoma integrifolia – S Smith & D Mansfield Sept 2020 |
| ID 3234493 | 20/7/2002 | Curtis Bjork | Lemhi | Canyon Cr | Confirned to be P. integrifolia by B. Legler Jan.2021 |
| ID 2820770 | 13/7/1953 | W H Baker  | Elmore | Dixie | Reviewed and annotated as P. insecticruris by B. Legler Jan. 2021 |

*Literature Records:* General Reference - Kartesz, J.T. 1994. A synonymized checklist of the vascular flora of the United States, Canada, and Greenland. 2nd edition. 2 vols. Timber Press, Portland, OR.

*Databases/Herbaria consulted (and query date):* CPNWH 2/1/2022, SEINet 2/1/22, Consortium of Intermountain Herbaria 2/2021, IDF&G 2/2021

*Research Notes:*  See above notes regarding collections reviewed

IFWIS records turned out to be specimens that were determined not to be P. racemosa.

BONAP shows numerous southern Idaho counties that are no longer supported by verified specimens, and doesn’t include Caribou County.

**Abundance:**

*Number of Occurrences8:* EO’s – 1 or 2 potentially still extant (Caribou Co.); 2 extirpated = A

*Population Size:* unknown

*Number of Occurrences with Good Viability:* unknown, but no more than 1 = AB

**Conservation concerns:** Species not found at some previous collection sites: Idahome site revisited (2020) and habitat is destroyed (crested wheatgrass seeding) so population presumably extirpated. Emmett site most likely converted to agriculture and also extirpated at this site. Hooper Springs site converted to lawn (2021), but still a small amount of potential habitat. Soda Point Reservoir (Anderson Reservoir) presumably still has potential habitat (not checked).

*Threats*: Site conversion to agriculture or recreation site. Invasive weeds. Much of the potential habitat is private land; some BLM.

*Overall Threat Rank:* High

**Population trend:** Presumably declined from historic range within Idaho.

**Proposed rank information:**

*\*Date Ranked5:* Feb. 5, 2020 by SIRPWG; rank calculator re-done 2/1/2021 version 3.2.

*\*Proposed Rank:* S1

*\*Proposed INPS Status2:* S1 Move from REVIEW to RARE.

*\*Comments*: This is the only variety found in Idaho so the species Pyrrocoma racemosa is also S1

**Recommended actions:**

Additional review of potential sites around the Soda Springs area (Anderson Reservoir) may move this species to SH status.