**\***֎***Ammannia robusta* Heer & Regel1 – grand redstem,** larger tooth-cup

**Lythraceae – Loosestrife family**

Account written by Beth Corbin, Dec 1, 2020֎\*

Rank **S1S2** Recommended by Rare Plant Working Group on December 4, 2020

**Current Conservation Status:**

\*NatureServe3: G5 SNR [WA & WY S1, MT S2; OR, NV, UT SNR]

2009 INPS rank²: Not listed

BLM: None

FS Reg 1: None

FS Reg 4: None

FS Reg 6: WA-Sensitive

FWS: None

**Taxonomy:** First published in Dec 1842 (Index Seminum Hort. Bot. Turic). Treated as a subspecies of *A. coccinea*  from 1880-1979.

*Synonyms:* None recently

*Other Subspecies/Varieties, if applicable:* NA

*Type Locality:* Piratininga, Rio de Janeiro, Brazil (A.F.M. Glaziou 8340; neotype by S.A. Graham 1985)

*\*Taxonomic key(s)7:* FPNW2 p 253, IMF Vol 3A p168

**Species Description (OPTIONAL):** Annual 2-10 dm tall with narrow, somewhat auriculate, opposite leaves. Inconspicuous pale lavender flowers and fruit virtually sessile in axils.

**Biology:** Annual forb; reproduces by seed; flowers in Idaho August to September (identifiable in fruit into October).

**Similar species:** *Ammannia coccinea*, *Rotala ramosior*.

**Habitat:** Elevation 800-2,726 feet; mudflats (or sand/gravel) along rivers, reservoirs [or alkaline slough].

*\*֎Environmental Specificity10:* Narrow (river/lake mudflats below 3,000 ft)

**Cultural and commercial values:** Unknown

**Landownership:**  Federal (USFWS refuge; BOR?); State (IDFG); & private

**Distribution:**

*Global Range*: N & S America (introduced elsewhere).

*\*Range Extent Descriptor6:* Sparse in Idaho

֎*Rank Calculator Idaho Range Extent:* Southern polygon about 743 (-1,264) km², northern (Nez Perce only) about 4 km² = C (250-1000 km²) D (1000-5000 km²)

֎*Area of Occupancy:* No more than 7 4-km² grid cells, probably fewer = CD

*\*Idaho Counties9:* Ada?, Canyon, Gem, Nez Perce, Owyhee, Payette

*Idaho Specimens:* See separate sheet for coordinates, elevation, ownership, EOs.

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| **Record source (Herbarium, IFWIS, person)** | **Date observed/ collected** | **Observer** | **County** | **Location** | **Abundance, threats, habitat condition** |
| ID | 9/23/2002 | C.R. Bjork #6863 | Nez Perce | Clearwater River, E of Catholic Ck | large seasonal pool between Hwy 12 & RR. |
| CIC | 10/3/2001 | D.H. Mansfield #01-380 | Canyon | Lake Lowell, S side | Open lakeshore |
| ID | 10/1999 | C.R. Bjork sn | Nez Perce | Clearwater River, 2 mi E of Spalding | Seasonal pools below Hwy 12; mud; common. |
| ID | 8/1996 | C.R. Bjork #1949 | Payette | Snake River at I84 crossing | Mud flats on river shore; rare. |
| SRP | 8/6/1990 | G.E. Larson #10327 | Owyhee | USGS river transect [Snake River near Marsing] | Sand & gravel bar on “Poison Ivy Island” |
| OSC ORE | 8/1/1897 | L.F. Henderson #4553 | Payette | Payette |  |
| WIS | 8/4/1890 | R.A. Harper sn | Payette | Payette |  |
| ID, NY | 8/6/1937 | J.H. Christ #8521 | Gem | 12 mi W of Emmett | Alkaline slough |
| The following specimen has not yet been processed or species definitively determined:  |
| TBD | 10/21/2015 | Ertter #22464 | Ada | Hubbard Reservoir | Drying mudflat with Typha, Marsilea, Bacopa; uncommon |

*Literature Records:* IMF & FPNW2 have general information, not specific records.

*Databases/Herbaria consulted (and query date):* CPNWH 11/9/20; Consortium Intermountain Herbaria 11/9/20; SEINet 11/9/20; CCH2 11/9/20.

*Research Notes:*

* Bjork’s 1999 and 2002 collections from Nez Perce appear to be the same location (or within ¼ mile) [0.5 km E of Catholic Ck and 2 mi E of Spalding on Clearwater River], so are assigned the same EO.
* Christ’s 1937 collection from 12 mi W of Emmett **was** labelled *A. coccinea* at ID, but the duplicate at NY is annotated to *A. robusta*. Ben Legler annotated the ID collection to *A. robusta*.
* Harper’s 1890 and Henderson’s 1897 collections are both from “Payette”; not specific, but assume the same EO.
* Ertter’s 2015 collection has not been definitely identified to species. If it is A*. coccinea*, then we’ll need to rank that species separately.

**Abundance:**

*\*֎Number of Occurrences8:* Up to 7, some very old. AB

*֎Population Size:* Unknown. Most records without estimates (one says common, one uncommon, and one says rare); plant numbers for an annual in this type of habitat can be quite variable.

*֎Number of Occurrences with Good Viability:* No more than 7 and probably fewer. BC

**Conservation concerns:**

*֎Threats (include scope, severity and timing, if known):* Potentially private land development and/or agriculture. Invasive species. Water diversion and storage affecting shoreline mud availability. Railroad track and highway road maintenance at Clearwater site.

*\*֎Overall Threat Rank11:* High

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

**Population trend:**

*֎Short:* Unknown

*֎Long:* Unknown

**Proposed rank information:**

*\*Date Ranked5:* Preliminary 11/14/2020 Confirmed by SI RPWG 12/4/2020

*\*Proposed Rank:* S1S2 (same as calculated)

*\*Proposed INPS Status2:* Add as RARE

*\*Comments12:* Discuss with RPWG – “There's the quandary of distinguishing between declining natives and sporadic shufflings among wetlands for aquatics in general.” Ertter 11/10/20

RPWG Comments 12/4/20: Discussion about natural versus man-made habitats (reservoirs, etc.) and the inherent temporal quality of wetland plant distributions; the consensus was to rank it as rare, but management would need to be tailored to the specific site and agency objectives (including the value of wetlands whether native or created). As Barbara said “It’s complicated”.

**\*Recommended actions13:** Recommend USFWS Refuge manage as special status.