

**ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM**

Plant Abstract

Element Code: PDASTES010

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Roldana hartwegii* (Benth.) H.E. Robins & Brett.

COMMON NAME: Harweg's Groundsel, Seemann groundsel, Geranio del Campo

SYNONYMS: *Roldana carlomasonii* (B. L. Turner & T. M. Barkley) C. Jeffrey, *Senecio carlomasonii* B. Turner & T. Barkley

FAMILY: Asteraceae

AUTHOR, PLACE OF PUBLICATION: B.L. Turner, & T.M. Barkley, 1989. *Phytologia* 67: 390-393. 1989.

TYPE LOCALITY: Mexico: Sonora: Along the road between Tapachic and Yecora.

TYPE SPECIMEN: HT: TEX. S. Sundberg 2839, 24 September 1984. IT: CAS, MEXU.

TAXONOMIC UNIQUENESS: Following Kartesz (1999) and FNA (2006, vol. 20), *Senecio carlomasonii* is included in a more broadly treated *Roldana hartwegii*. *Senecio hartwegii* is a synonym of *Roldana hartwegii* in Kartesz (1999). *Senecio hartwegii* and *S. carlomasonii* were treated as distinct species in Kartesz (1994). *Senecio seemannii* is a synonym of *Senecio hartwegii* sensu stricto (e.g., Turner and Barkley 1989).

DESCRIPTION: Suffruticose perennial herb or subshrub to 2.5 m (8.2 ft) high. Hollow stems terete, puberulent to glabrate, purple or purple-maculate, arising loosely clustered from a stout branching rhizome. Mid-stem leaves alternate, 10-20 cm (4-8 in) long overall, 6-12 cm (2.4-4.7 in) wide; petioles 2-8 cm (0.8-3 in) long, puberulent to glabrate. Leaf blades broadly oval (somewhat wider than long) to elliptic-ovate (longer than broad), sparsely puberulent beneath to glabrous, 5-9 (-7) palmately veined from or near the base, the margins with 9-13 shallow lobes. Barkley (1978) reports 5-11 marginal lobes. Heads (often 80+) radiate, numerous in a pyramidal-corymbose capitulescence, the ultimate peduncles puberulent (glabrate with age), mostly 3-10 mm long. Involucres are narrowly campanulate, 4-6 mm high, the bracts 10-13, glabrous or nearly so, and the calyculus of 3-6 short, linear, bracts. Ray florets mostly 5, the ligules yellow, 3-4 (-7) mm long. Disk florets 10-20, the corollas yellow. Achenes broadly fusiform, about 2 mm long, decidedly short pubescent throughout, the pappus of numerous white, readily deciduous bristles 4-6 mm long. (Barkley, 1978; Turner et al. 1989).

AIDS TO IDENTIFICATION: *Senecio octobracteatus* is readily distinguished from *S. carlomasonii* by its glabrous achenes.

ILLUSTRATIONS:

Color photos of plant and habitat (Tom Newman 2001).

Color photo of plant (Tom Newman 2002)

TOTAL RANGE: Southern Arizona and Mexico (Sonora, Chihuahua, Nayarit). Arizona is the northern limit of an extensive distribution in Mexico. For those who follow this plant under *Roldana hartwegii*, then include Texas in the range as well.

RANGE WITHIN ARIZONA: The Chiricahua, Huachuca, and Baboquivari mountains in Cochise County; the Santa Rita, Pajarito, and Pena Blanca mountains in Santa Cruz County; and the Santa Rita Mountains in Pima County.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Suffruticose/herbaceous/woody forb/herb/subshrub/shrub perennial.

PHENOLOGY: September-November.

BIOLOGY:

HABITAT: Shaded or partially shaded canyon bottoms.

ELEVATION: 2,950 to about 7,875 feet (900-2400 m). In Arizona, from 3,700 to about 7,200 feet (1130-2196 m).

EXPOSURE: North-facing forks, as well as northeast-facing canyons.

SUBSTRATE: Rich loamy soil along canyon bottoms; rocky and sandy soil on canyon sides.

PLANT COMMUNITY: Oak and pine-oak woodland, mixed-conifer/hardwood forest. Associated species may include: *Ageratina herbacea* (Fragrant thorough-wort), *Choisya dumosa* (Mexican orange), *Hedeoma dentatum* (mock-pennyroyal), *Hymenothrix wrightii* (Wright Hymenothrix), *Quercus arizonica* (Arizona oak), *Q. hypoleucoides* (silver-leaf oak), and *Rhus* sp. (sumac).

POPULATION TRENDS: Unknown.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None
STATE STATUS: None
OTHER STATUS: Forest Service Sensitive (USDA, FS Region 3 1999)

MANAGEMENT FACTORS: No threats to this species are currently known. The only potential threat to its habitat is possible trampling by hikers.

PROTECTIVE MEASURES TAKEN: The TNC Ramsey Canyon Preserve has mapped the population within the preserve, and annual monitoring is being conducted (ANHP 1986).

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: BIA - Tohono O'odham Reservation; DOD - Fort Huachuca Military Reservation; USFS - Coronado National Forest; TNC Ramsey Canyon Preserve; Private.

SOURCES OF FURTHER INFORMATION**REFERENCES:**

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MAJOR KNOWLEDGEABLE INDIVIDUALS:

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ADDITIONAL INFORMATION:

This species had been erroneously placed within the fabric of *Senecio hartwegii*, until 1989, when it was recognized as a separate species (Turner et al. 1989).

Revised: 2000-02-10 (JCP)
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