

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

**Plant Abstract**

**Element Code:** PDAST8H3W0

**Data Sensitivity:** No

**CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE**

**NAME:** *Senecio carlomasonii* B. Turner & T. Barkley  
**COMMON NAME:** Seemann groundsel, Geranio del Campo  
**SYNONYMS:** *Roldana carlomasonii* (B. L. Turner & T. M. Barkley) C. Jeffrey, *R. hartwegii* (Benth.) H.E. Robins & Brett.  
**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:** The genus *Senecio* contains approximately 1,500 species worldwide (Hickman 1993). Seventeen species are recognized by Lehr (1978 and Lehr et al. 1980, 1982) as occurring in Arizona. According to NatureServe (2004), Kartesz (1999) considers *S. carlomasonii* a synonym of *Roldana hartwegii*, along with *Senecio hartwegii*, and *R. carlomasonii*. Kartesz also considers *S. seemannii* a synonym of *S. hartwegii* sensu stricto (e.g., Turner and Barley 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:**

- ANHP-Arizona Natural heritage Program. 1986. Ramsey Canyon Preserve Special Element Plant Abstract, prepared by G. Babb.
- Barkley, T.M. 1978. *Senecio*. North American Flora, Series 11, Part 10, pp. 135-136.
- Hickman, J.C., ed. 1993. The Jepson manual, higher plants of California. University of California Press. Berkeley, California. P. 336.
- Integrated Taxonomic Information System (ITIS). Retrieved 4/19/2004 from ITIS, <http://www.itis.usda.gov>.
- Kearney, T.H., and R.H. Peebles with collaborators. 1951. Arizona flora. Second edition with supplement by J.T. Howell, E. McClintock and collaborators. 1960. University of California Press. Berkeley, California. P. 948.
- Lehr, J.H. 1978. A catalogue of the flora of Arizona. Desert Botanical Gardens. Phoenix, Arizona. Pp. 172-173.
- Lehr, J.H. and D.J. Pinkava. 1980. A catalogue of the flora of Arizona. Supplement I. Journal of the Arizona-Nevada Academy of Science 15:29.
- Lehr, J.H. and D.J. Pinkava. 1982. A catalogue of the flora of Arizona. Supplement II. Journal of the Arizona-Nevada Academy of Science 17:24.
- Missouri Botanical Garden – TROPICOS, Nomenclatural Data Base. *Senecio carlomasonii* B.L. Turner & T.M. Barkley. [http://mobot.mobot.org/cgi-bin/search\\_vast](http://mobot.mobot.org/cgi-bin/search_vast). Accessed: 19 Apr 2004.
- NatureServe. 2004. NatureServe Explorer: An online encyclopedia of life [web application]. Version 3.0. NatureServe, Arlington, Virginia. Available: <http://www.natureserve.org/explorer>. (Accessed: April 19, 2004).

Rickett, H.W., ed. 1970. Wild Flowers of the United States. Volume Four-Part Three of Three Parts. The New York Botanical Garden. New York. Pp. 637, 639.

SEINet. Collections Search. Accessed 4/19/2004 at <http://seinet.asu.edu/collections/list.jsp>.

The New York Botanical Garden. NYBG Specimens Detailed Results.

[http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail\\_list](http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list). Accessed: 4/19/2004.

Turner B.L. and T.M. Barkley. 1989. New species, names and combinations in *Senecio*, sect. *Palmatinervii* (Asteraceae). *Phytologia* 67(5). Pp. 390-393.

USDA, Forest Service Region 3. 1999. Regional Forester's Sensitive Species List.

USDA, NRCS. 2002. The PLANTS Database, Version 3.5 (<http://plants.usda.gov>). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

#### 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).

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