

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

Plant Abstract

Element Code:

PDSTE06010

Data Sensitivity:

No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Hermannia pauciflora* S. Wats.
COMMON NAME: Sparseleaf Hermannia, Santa Catalina Burstwort, Hierba del Soldado
SYNONYMS:
FAMILY: Sterculiaceae

AUTHOR, PLACE OF PUBLICATION: Watson, Sereno. 1882. Proc. Amer. Acad. 17: 368.

TYPE LOCALITY: Santa Catalina Mountains, Pima County, Arizona.

TYPE SPECIMEN: Pringle. 1881.

TAXONOMIC UNIQUENESS: The genus *Hermannia* contains approximately 300 species, mainly in Africa. *Hermannia pauciflora* is the only species recognized by Lehr (1978) as occurring in Arizona.

DESCRIPTION: Herbaceous perennial with a woody base and root with reddish-brown ascending stems up to 30 cm long; leaves deltoid or oblong-ovate with toothed margins; flowers yellow (or orange), 6-8 mm long, with 5 styles, hanging down on small stems from axils; calyx tube about half the length of the corolla, 5-cleft, the lobes longer than the tube; fruit ovoid with five ridges bearing stout teeth 1-2 mm long with 3-5 stellately arranged, horizontal or slightly recurved stout hairs.

AIDS TO IDENTIFICATION: Five distinct styles on the ovary in contrast to *Waltheria* and *Ayenia*, which have only one. Yellow flowers are solitary, pendulous.

ILLUSTRATIONS: Line Drawing (Rickett 1970: 342).

TOTAL RANGE: Southern Arizona (Pima County) and Sonora, Mexico (Guaymas, San Carlos, Nacapule Canyon, Hermosillo and Puerto Libertad areas).

RANGE WITHIN ARIZONA: Pima County: Santa Catalina and Tucson Mountains.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Herbaceous perennial.

PHENOLOGY: February-June, and September.

BIOLOGY: Stems die back to the rootcrown at the end of the growing season but persist through the winter and beyond. Plants are usually widely-scattered and appear to be rather short-lived, five years or less.

HABITAT: Dry rocky slopes, hillsides, alluvial fans and canyon bottoms.

ELEVATION: 2,400 to 4,280 feet (732 - 1305 meters).

EXPOSURE:

SUBSTRATE: Varies (gneiss, andesite, basalt, limestone).

PLANT COMMUNITY: Desertscrub, riparian.

POPULATION TRENDS: Collections of this species have been sporadic since its original collection in 1881. Records from the HDMS indicate collections from 1905, 1913, 1946, 1952, 1966, 1980, 1983, 1984, and 1989. The University of Arizona Herbarium collection contains specimens from 1991 and 1992. Bertelsen (2000) first observed the species in Finger Rock Canyon in 1984. He did not see it again until 1994, but has seen it every year since.

SPECIES PROTECTION AND CONSERVATION

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

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: NPS - Saguaro National Park; USFS - Coronado National Forest; Pima County - Tucson Mountain County Park; Private.

SOURCES OF FURTHER INFORMATION

LITERATURE CITATIONS:

- Benson, L. and R. A. Darrow. 1981. Trees and Shrubs of the Southwestern Deserts. Third Edition. The University of Arizona Press. Tucson. p. 105.
- Bertelsen, C.D. 2000. Personal communication in review of AGFD, HDMS draft abstract of *Hermannia pauciflora*.
- Darrow, R. A. 1948. Notes on the Arizona Flora. Leaflets of Western Botany. Vol. V. p. 97.
- Kearney, T.H., R.H. Peebles with collaborators. 1960. Arizona flora. Second Edition. University of California Press. Berkeley. p.555.
- Lehr, J.H. 1978. A catalogue of the Flora of Arizona. Desert Botanical Gardens, Phoenix, Arizona. p.97.
- Rickett, H. W. and collaborators. 1970. Wildflowers of the United States. Volume Four Part two of three. McGraw-Hill Book Company. New York. p. 342.
- Rondeau, R.J. 1991. Flora and vegetation of the Tucson Mountains, Pima County, Arizona. Unpublished Master's Thesis, University of Arizona. Tucson. p. 117.
- Shreve, F. and I.L. Wiggins. 1964. Vegetation and Flora of the Sonoran Desert Volume Two. Stanford University Press. Stanford. p. 921.
- USDA, Forest Service Region 3. 1999. Regional Forester's Sensitive Species List.

MAJOR KNOWLEDGEABLE INDIVIDUALS:

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ADDITIONAL INFORMATION:

Revised: 1999-11-16 (JCP)
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