

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

Plant Abstract

Element Code: PDSTE010C0

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Ayenia jaliscana* S. Wats.

COMMON NAME: Ayenia

SYNONYMS: *Ayenia truncata* Rose

FAMILY: Sterculiaceae

AUTHOR, PLACE OF PUBLICATION: Watson, S., Proc. Amer. Acad. Arts 26: 133. 1891.

TYPE LOCALITY: Mexico: South-Western Chihuahua (LT (GH) – designated by Cristóbal, 1962, in Tropicos, accessed 1/26/2010). GH directions – Mexico, Chihuahua, Hacienda San Miguel near Batopilas.

TYPE SPECIMEN: LT: GH 62743. Edw. Palmer 19, Aug 1885 – Nov 1885 (Sep 1885). GH designated as Syntype. ILT: NY.

TAXONOMIC UNIQUENESS: According to Hickman (1993), the genus *Ayenia* contains approximately 50 species worldwide; Cristóbal (1960), recognizes 67 species. Four species of *Ayenia* are recognized by Lehr (1978) as occurring in Arizona. In the past, there has been confusion to what species of *Ayenia* occurs in Arizona. However, in a personal communication with Phil Jenkins (U Ariz) (14 Jan 2010), “*A. glabra* S. Watson is in Sonora and south, as is *jaliscana*. Ours was misidentified partly as a more likely range extension, and final determination was made by Carmen (Cristobal) as *A. jaliscana*..... *A. truncata* Rose is not any longer recognized, but is considered synonymous with *jaliscana*.” Other species of *Ayenia* in Arizona include *A. filiformis* S. Watson, and *A. microphylla* A. Gray (Jenkins, 2010).

DESCRIPTION: A shrub or herbaceous perennial to ca. 2 meters (6.56 ft) in height. For the **species:** Plants have a stout taproot, and erect stems that are much-branched at the base, 1-4dm; hairs on stems are stellate or absent. The leaves are ovate-obovate, unlobed, and serrate. Inflorescence is 1(-2) in the axils. Flowers are generally <3 mm wide with narrowly ovate spreading sepals; petal claw is thread-like, coiled, the limb obcordate, incurved, and parachute-like. The sinus has an anther below and a stalked, gland-like appendage above. The filament tube is cup- or urn-shaped at the top, surrounding the ovary, with 5 short, stalked anthers that are bent outward and downward; staminoides 5, < stamens. The ovary is stalked above the receptacle, and the fruit consists of 1-seeded chambers. (<http://ucjeps.berkeley.edu/> accessed 2010).

AIDS TO IDENTIFICATION: *Ayenia jaliscana* is “seldom seen, probably because they look like an unidentifiable *Abutilon*... People looking for it should carefully study the trichomes on the collected specimens before going into the field.” (Jenkins, 2010).

ILLUSTRATIONS:

Color photo of Isotype collections (222156 & 222157, in NYBG, <http://sweetgum.nybg.org/vh/specimen.php>)

TOTAL RANGE: Mexico (Chiapas, Chihuahua, Jalisco) and southern Arizona.

RANGE WITHIN ARIZONA: Pima County, Las Guijas Mountains, and Santa Cruz County, Santa Rita Mountains.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Woody shrub perennial.

PHENOLOGY: Flowers from August – October, main peak September.

BIOLOGY: Tops die off in winter and sprout again about May.

HABITAT: Rocky slopes, hillsides, and canyon bottoms, and in grassy plains.

ELEVATION: Las Guijas Mountains: collected at 1200 - 1210m (3937-3970 ft); Santa Rita Mts.: collected at 1194 – 1207m (3920-3960 ft).

EXPOSURE: SW facing slope (Las Guijas Mts.).

SUBSTRATE: Rocky slopes (Las Guijas Mts.); canyon bottoms.

PLANT COMMUNITY: Lower Sonoran Zone. Associated species include: Las Guijas Mts. – *Eysenhardtia*, *Janusia*, *Mimosa dysocarpa*, Ocotillo and *Prosopis* (mesquite); Santa Rita Mts. – *Acacia greggii*, *Celtis*, *Dodonaea*, *Ericameria*, *Eysenhardtia orthocarpa*, *Nissolia*, *Prosopis velutina*. (SEINet, accessed 1/14/2010).

POPULATION TRENDS: Unknown.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None

STATE STATUS: None

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS: Distribution, ecology, and habitat studies are needed.

LAND MANAGEMENT/OWNERSHIP: USFS - Coronado National Forest; USFWS –
Buenos Aires NWR.

SOURCES OF FURTHER INFORMATION

REFERENCES:

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MAJOR KNOWLEDGEABLE INDIVIDUALS:

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ADDITIONAL INFORMATION:

Revised: 1999-11-09 (JCP)
2000-02-16 (JCP)
2004-03-05 (SMS)
2010-01-26 (SMS)

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Arizona Game and Fish Department. 20XX (= **year of last revision as indicated at end of abstract**). X...X (= **taxon of animal or plant**). Unpublished abstract compiled and edited by the Heritage Data Management System, Arizona Game and Fish Department, Phoenix, AZ. X pp.