

ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

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CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Tephrosia thurberi* (Rydb.) C. E. Wood

COMMON NAME: Thurber Hoarypea, Thurber's Hoarypea

SYNONYMS: *Cracca thurberi* Rydb.

FAMILY: Fabaceae (Leguminosae)

AUTHOR, PLACE OF PUBLICATION: Wood, C. E. 1949. *Rhodora* 51(610): 265. (*Cracca thurberi*: Rydberg. 1923. *North American Flora* 24(3): 165).

TYPE LOCALITY: Mexico: Mububi.*

TYPE SPECIMEN: NY-Columbia University. Thurber 410. 1851.*

TAXONOMIC UNIQUENESS: The genus *Tephrosia* contains over 19 species in North America. Three species of *Tephrosia* are recognized by Lehr (1978) as occurring in Arizona.

DESCRIPTION: Erect perennial shrub to about 91.5 cm (3 ft.) tall, with densely hairy stems, 0.1-1.0 mm or more, with the shorter being more retrorse. Leaves (including leaf stalk) 8-15 cm long, divided into (9-) 11-27 leaflets, these elliptic, 3-3.5 cm long, 1.5-2.0 cm wide. Racemes usually terminal. Inflorescence crowded with flowers, these in pairs, 14-16 mm long. Corolla apparently white, becoming lavender or purplish, the base of the blade of the banner with a green spot. Petals pink to dark pink, wings pink-purple. Calyx 5-6 mm, lobes somewhat unequal, longer or shorter than the tube, ventral longest. Pods dehiscent, flattened, straight, 3-6 cm long, 4 mm wide, with hairs.

AIDS TO IDENTIFICATION: *Tephrosia thurberi* is "distinguished by its erect herbaceous habit, barbellate style; and villosulous, almost velvety pods" (Isely, D pre-1980). In addition, *T. thurberi* has primary flower bracts filiform and scarcely exceeding 1 mm in width, whereas *T. leucantha* has lanceolate-acuminate primary flower bracts 2-3 mm wide (Isely, D. pre-1980).

ILLUSTRATIONS:

TOTAL RANGE: Southern Arizona and Mexico (Northern Sonora, Southwestern Chihuahua).

RANGE WITHIN ARIZONA: Cochise County: Chiricahua and Huachuca Mountains; Santa Cruz County: Atascosa, Patagonia and Santa Rita Mountains; and Pima County.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Herbaceous forb/herb Perennial.

PHENOLOGY: July - September.

BIOLOGY:

HABITAT: Dry rocky slopes among oaks and pines (Kearney et al, 1960), junipers, manzanitas, open hilltops, and grasslands. Roadsides. In Mexico, sometimes found on slopes near waterfalls (Martin, et al. 1998).

ELEVATION: 3,500 to 7,000 feet (1068 - 2135 meters).

EXPOSURE: South facing, southwest exposures.

SUBSTRATE: Granitic, silt loam, volcanic.

PLANT COMMUNITY: Pine-oak woodland, as well as juniper and manzanita.

POPULATION TRENDS:

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS:

STATE STATUS:

OTHER STATUS:

Forest Service Sensitive (USDA, FS Region 3 1999)

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: USFS Coronado National Forest, DOD Fort Huachuca Military Reservation.

SOURCES OF FURTHER INFORMATION**LITERATURE CITATIONS:**

- Isley, D. pre-1980. Rough Draft Manuscript. Unpublished.
- Kearney, T.H., R.H. Peebles with collaborators. 1960. Arizona flora. Second Edition. University of California Press. Berkeley. p. 440.
- Lehr, J.H. 1978. A catalogue of the Flora of Arizona. Desert Botanical Gardens, Phoenix, Arizona. p.82.
- Martin, P. S., Yetman, D., Fishbein, M., Jenkins, P., Van Devender, T. R., and R. K. Wilson. 1998. Gentry's Rio Mayo Plants. The University of Arizona Press. Tucson. p. 361.
- USDA, Forest Service Region 3. 1999. Regional Forester's Sensitive Species List.
- Wood, C. E. 1949. American Species of *Tephrosia*. *Rhodora* 51. p. 265-266.

MAJOR KNOWLEDGEABLE INDIVIDUALS:**ADDITIONAL INFORMATION:**

* "*Tephrosia thurberi* (Rydb.) C. E. Wood. Cited as cotype (with *Cracca thurberi*) by Rydberg but type is restricted to No. 410 from Mububi, Sonora, June 1851, annotation by C. E. Wood, Jr., 1948. [I don't understand what Wood means. How can the cotype not be a cotype if it is the same species? Check protologue. Commentary by T. Zanoni, 1994.] Ex Torrey Herb" (NYBG Online Database, 11/29/99).

"*T. thurberi* could reasonably be considered a northwestern phase of the more widely distributed and variable *T. leucantha* (Isley, D. pre-1980).

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