

ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

Element Code: PDAST95010

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Tetradymia argyraea* Munz and Roos

COMMON NAME: Silver felt thorn, striped horsebrush, striped cottonthorn.

SYNONYMS:

FAMILY: Asteraceae

AUTHOR, PLACE OF PUBLICATION: P.A. Munz and J.C. Roos, *Aliso* 2(3): 237-238. 1950.

TYPE LOCALITY: Kingston Mountains (alt. 6300 ft., 1920 m.), San Bernardino, California, USA.

TYPE SPECIMEN: HT: RSA-48171. J.C. Roos & R. Weatherby 3574, 02 Sep 1949. IT: Bureau of Plant Industry, CAS, UC, US.

TAXONOMIC UNIQUENESS: Species *argyraea* is 1 of 10 in the genus *Tetradymia* in North America, and 1 of 4 in Arizona. The other species of *Tetradymia* found in Arizona include *T. axillaries*, *T. canescens*, and *T. stenolepis*.

DESCRIPTION: A densely and rigidly branched, spiny shrub, less than 20 dm (79 in) tall, usually 6-15 dm (24-59 in). Old stems gray-black streaked with reddish brown. Younger branches with densely matted silvery-white wool, forming firm ridges on the internodes. Stems becoming glabrous in stripes below the spines. Main leaves 1-3 cm (0.39-1.18 in) long, canescent or becoming glabrous, linear, forming straight or upturned spines; clustered leaves are thread- to club-like, 3-20 mm long, glabrous. Fascicles of secondary leaves (5-12 mm long) are borne in the axils of the spines. Heads of inflorescence generally 2-5, with tomentose peduncles (no bracts), an obconic involucre, and 5 tomentose phyllaries that are narrowly elliptic. Florets 5 per capitulum. Corollas slender, pale yellow, about 9 mm long; throat slightly dilated; lobes narrowly lanceolate. Achenes slender, subcylindrical 2.5-3.5 mm long; tawny with 5 reddish brown ribs; glabrous. Pappus of about 75-100 fine, penicillate bristles, about 8 mm long.

AIDS TO IDENTIFICATION:

ILLUSTRATIONS: Line drawing (Strother, 1974: fig. 2, p. 185).

Color photo of Isotype (US-2216377, *in*

<http://ravenel.si.edu/botany/types/fullRecords.cfm?myFamily=>)

Color photo (Yulan Tong 2003, *in* CalPhotos at

http://elib.cs.berkeley.edu/cgi/img_query)

TOTAL RANGE: Eastern Mohave Desert in Arizona, California, and Nevada.

RANGE WITHIN ARIZONA: Mohave County: Mt. Tipton area north of Kingman; Cerbat Pinnacles, north end of Cerbat Mountains.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Perennial shrub/subshrub.

PHENOLOGY: Flowers late June to early August; Aug-Sep per Hickman (1993).
Reproduction is from wind-dispersed seeds and from sprouting of root crowns and rhizomes.

BIOLOGY:

HABITAT: Occurs on dry rocky slopes in pinyon-juniper woodlands.

ELEVATION: 4,800-7,000 ft. (1464-2135 m) for the range. Found at 4,800-5,400 feet (1464-1647 m) in Arizona. Elevation ranges from 4,593-6,890 ft (1400–2100 m) in California. (Hickman 1993).

EXPOSURE: Northern exposure on steep rocky hillside at a site in Nevada.

SUBSTRATE: Upper slopes of volcanic rock below actual pinnacles at 2 sites in Arizona.

PLANT COMMUNITY: Pinyon-juniper woodland in desert mountains of the Mohave Desert. In Arizona found associated with: *Agave*, *Chrysothamnus depressus* (long-flower rabbit-brush), *Ephedra viridis* (green Mormon-tea), *Ericameria linearifolia* (narrow-leaf golden-weed), *Eriogonum corymbosum* (crispleaf wild-buckwheat), *E. fasciculatum* (California wild buckwheat), *Fallugia paradoxa* (Apache-plume), *Fraxinus anomala* (single-leaf ash), *Galium* (bedstraw), *Pinus californiarum* (California pine), *Quercus turbinella* (shrub live oak), *Rhamnus crocea* (red-berry buckthorn), *Rhus trilobata* (sumac), and *Symphoricarpos* (snowberry). (SEINet, accessed 2005). Type specimen (in California) found growing with *Erigeron breweri* var. *porphyreticus*, *Eriogonum heermannii* var. *sulcatum* (Heermann's buckwheat), *Garrya flavescens* (ashy silktassel), and *Pinus monophylla* (single-leaf pine). (El Aliso, 1950).

POPULATION HISTORY AND TRENDS: Unknown. In 1992, reported as locally common in the Cerbat Mountains of Arizona.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None
STATE STATUS: None
OTHER STATUS: None (USDI, BLM AZ 2005)
[Bureau of Land Management Sensitive (USDI, BLM 2000)]

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: BLM – Kingman Field Office.

SOURCES OF FURTHER INFORMATION

REFERENCES:

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USDI, Bureau of Land Management. 2005. Arizona BLM Sensitive Species List.

MAJOR KNOWLEDGEABLE INDIVIDUALS:

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ADDITIONAL INFORMATION:

Revised: 2002-06-20 (SMS)
2005-08-25 (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.