

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

Plant Abstract

Element Code: PDSOL0J030

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Margaranthus lemmonii* Gray

COMMON NAME: Lemon Globe Berry

SYNONYMS:

FAMILY: Solanaceae

AUTHOR, PLACE OF PUBLICATION: Gray. 1883. Proceedings of the American Academy of Arts and Sciences. 19:91-92.

TYPE LOCALITY: Southern Arizona in Cave Cañon, near Fort Huachuca.

TYPE SPECIMEN: GH! J.G. Lemmon 2847. Early 1880's.

TAXONOMIC UNIQUENESS: Possible that species not taxonomically valid and that type collection was aberrant form of *M. solanaceous*. Kearney and Peebles (1960) lists two species of this genus in Arizona.

DESCRIPTION: Small annual herb resembling *Physalis* (ground cherry or husk tomato). Spreading stems diffusely branched from base. Leaves petioled, thin, entire, or somewhat sinuate and ovate of lanceolate. Small, solitary white flowers have deeply cleft corolla with lobes at least as long as tube. Anthers are completely dehiscent longitudinally. Papery calyx encloses fruit at maturity.

AIDS TO IDENTIFICATION:

ILLUSTRATIONS: Line drawing (USFWS).

TOTAL RANGE: Cochise County, Arizona.

RANGE WITHIN ARIZONA: Known only from 1882 type specimen from Cave Canyon, Huachuca Mountains.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Herbaceous annual.

PHENOLOGY:

BIOLOGY:

HABITAT: Little is known about habitat as species known only from type collection at Cave Cañon. Cave Cañon is a dry wash that flows southwest from the Huachuca Mountains to the Mexican border. A grassland community with oak-pine islands occurs on the slopes above the drainage and riparian trees and shrubs grow along the banks. Several springs arise in the stream channel and flow short distances, but channel is primarily dry.

ELEVATION: Unknown

EXPOSURE: Unknown

SUBSTRATE: Unknown

PLANT COMMUNITY:

POPULATION TRENDS: Unknown

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None (USDI, FWS 1996)
[Category 2 USDI, FWS 1980]
[PTN-E USDI, FWS 1975]

STATE STATUS: None

OTHER STATUS: Forest Service Sensitive (USDA, FS Region 3 1990, 1999)

MANAGEMENT FACTORS:

PROTECTIVE MEASURES:

SUGGESTED PROJECTS: Survey completed in 1977 but plant not found. Barb and Art Phillips surveyed in 1982 but again, not found (Warren 1994).

LAND MANAGEMENT/OWNERSHIP:

SOURCES OF FURTHER INFORMATION

LITERATURE CITATIONS:

- Gray A. 1883. Miscellaneous genera and species. Proceedings of the American academy of arts and sciences 19:91-92.
- Kearney, T.H., R.H. Peebles with collaborators. 1960. Arizona flora. Second edition with supplement by J.T. Howell, E. McClintock and collaborators. University of California Press. Berkeley. p. 752.
- Phillips, A.M. III, B.G. Phillips, and N. Brian. 1982. Status report for *Margaranthus lemmonii*. Prepared for the U.S. Fish and Wildlife Service, Albuquerque, New Mexico.
- USDA, Forest Service Region 3. 1990. Regional Forester's Sensitive Species List.
- USDA, Forest Service Region 3. 1999. Regional Forester's Sensitive Species List.
- USDI, Fish and Wildlife Service. 1975. Threatened or Endangered Fauna or Flora. Federal Register 40(127):27828.
- USDI, Fish and Wildlife Service. 1980. Endangered and Threatened Wildlife and Plants; Review of Plant Taxa for Listing as Endangered or Threatened Species. Federal Register 45(242):82521.
- USDI, Fish and Wildlife Service. 1996. Endangered and Threatened Wildlife and Plants; Review of Plant and Animal Taxa that are Candidates for Listing as Endangered or Threatened Species; Notice of Review; Proposed Rule. Federal Register 61(40):7596-7613.
- Warren, P.L. 1994. Bureau of Land Management Safford District Rare Plant Workshop. November 14-16. Tucson, Arizona.

MAJOR KNOWLEDGEABLE INDIVIDUALS:

Barb Phillips - USFS Zone Botanist, Coconino, Kaibab and Prescott national forests. Flagstaff, Arizona.

ADDITIONAL INFORMATION:

Phillips' status report states species could be extinct, periodically rare in response to yearly rainfall, or be an invalid taxon.

Revised: 1990-12-26 (SR)
1994-10-19 (PLW)

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