

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

Plant Abstract

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Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Lupinus huachucanus* Jones

COMMON NAME: Huachuca Mountain Lupine

SYNONYMS: *Lupinus plantanophilus*

FAMILY: Fabaceae, Bean Family

AUTHOR, PLACE OF PUBLICATION: Jones, Marcus E. 1908. Contr. W. Bot. 12: 10.

TYPE LOCALITY: Santa Rita Mountains, Arizona.

TYPE SPECIMEN: Marcus E. Jones.

TAXONOMIC UNIQUENESS: The genus *Lupinus* contains about 200 species worldwide (Hickman 1993). Lehr (1978) recognizes 25 species in Arizona. C.P. Smith (1938) identified two varieties, var. *huachucanus* and var. *praescaposus*.

DESCRIPTION: Herbaceous perennial; leaves prostrate to ascending, in a rosette; leaflets 5-7, with long, spreading hairs, acute on both ends; flowers born in racemes above leaves on ascending or erect stalks up to 22 cm long; corolla 7-9 mm long, banner and wings violet-blue, wings yellow toward center, keel white, tipped in purple, with fine hairs on margin.

AIDS TO IDENTIFICATION: Relatively small plant with extremely hairy leaves, ciliate keel, racemes surpassing foliage. Similar in appearance to *Lupinus concinnus* Agardh., which has a more erect habit, pink flowers, and a non-ciliate keel, but this species is not found in the same habitat. (Note: the racemes of *L. concinnus* often do **not** surpass the foliage.)

ILLUSTRATIONS: Line Drawing (USFWS).

TOTAL RANGE: Southern Arizona and Mexico (Sonora: Sierra de las Ajos; Chihuahua: northernmost portion of Sierra Madre Occidental; Durango: Santiago Papasquiro).

RANGE WITHIN ARIZONA: Cochise County: Chiricahua and Huachuca Mountains; Santa Cruz County: Santa Rita Mountains.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Acualescent herbaceous forb/herb perennial.

PHENOLOGY: Flowers from March to May.

BIOLOGY: Frost tolerant, often seen with ice crystals on leaflet hairs in early spring. Population size and distribution is tied to spring rains, usually with scattered populations but can be locally common.

HABITAT: Found in pine forest on moderate to steep slopes in the US, and in oak-pine forest in Mexico. Most common in canyon bottoms and along roadsides.

ELEVATION: US: 5,000 to 6,700 ft. (1524 to 2044 m) Mexico: 6,080 to 7,600 ft. (1600 to 2000 m).

EXPOSURE:

SUBSTRATE:

PLANT COMMUNITY: Associated plant species may include: *Quercus hypoleucoides*, *Q. arizonica*, *Pseudotsuga*, *Pinus engelmannii*.

POPULATION TRENDS: Unknown. Can be locally common, but populations are quite scattered.

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: DOD - Fort Huachuca Military Reservation; USFS - Coronado National Forest.

SOURCES OF FURTHER INFORMATION

LITERATURE CITATIONS:
Arizona Rare Plant Guide (in Prep.)

- Bertelsen, C.D. 1999. *Lupinus huachucanus* M.E. Jones (Huachuca Mountain Lupine), Fabaceae. Draft abstract from Arizona Rare Plant Book, in prep.
- Bertelsen, C.D. 2000. Personal communication in review of AGFD, HDMS draft abstract of *Lupinus huachucanus*.
- Bowers, J.E. and S.P. McLaughlin. 1996. Flora of the Huachuca Mountains, a botanically rich and historically significant sky island in Cochise County, Arizona.
- Hickman, J.C. ed. 1993. The Jepson manual, higher plants of California. University of California Press. Berkeley. p. 1073
- Isely, D. 1998. Native and naturalized Leguminosae (Fabaceae) of the United States.
- Kearney, T.H. and R.H. Peebles with collaborators. 1960. Arizona Flora. Second Edition. University of California Press. Berkeley. p 418.
- Lehr, J. H. 1978. A Catalogue of the Flora of Arizona. Desert Botanical Garden, Phoenix, Arizona. p. 141-2.
- Martin, P.S., et. al. 1998. Gentry's Rio Mayo Plants The tropical deciduous forest and environs of Northwest Mexico. University of Arizona Press. Tucson. p. 353.
- Missouri Botanical Garden Web site- w³TROPICO; http://mobot.mobot.org/cgi-bin/search_pick
- Smith, C.P. 1938. Species Lupinorum 3:41.
- USDA, Forest Service Region 3. 1999. Regional Forester's Sensitive Species List. USDA Plants database Web site-POFPF2; <http://plants.usda.gov/plants/index.html>

MAJOR KNOWLEDGEABLE INDIVIDUALS:

ADDITIONAL INFORMATION:

Revised: 1999-11-23 (RHB)
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