

Astragalus mohavensis* S. Watson var. *hemigyris* (Clokey [1942]) Barneby*HALFRING MILKVETCH**

FAMILY: *Fabaceae*, the legume family.

SYNONYMS: *Astragalus hemigyris*

STATUS:

Heritage Program SENSITIVE LIST, ranks: G3 T2 S2

USFWS/ESA: species of concern. **STATE OF NEVADA:** FULLY PROTECTED. **BLM:** Special Status Species.

USFS: Humboldt-Toiyabe NF Sensitive Species. **NNNPS:** ENDANGERED.

POPULATION CENSUS: **30 occurrences mapped** at 1.0 km (0.6 mi) separation, **OR 42 occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals unknown**, total estimated **area 163+ ha (403+ ac)**.

TREND: unknown.

IMPACTS AND MAJOR THREATS: Some habitat is vulnerable to off-road vehicle use and other recreational activities, dumping, and feral horse and burro trampling.

INVENTORY EFFORT: Most recent entered survey 1999, average year of last survey 1993.

Years since last entered survey (percent of mapped records at various survey ages): **0-5 yrs:** 69.8%; **6-10 yrs:** 4.7%;

11-20 yrs: 18.6%; **21-30 yrs:** 4.7%; **51+ yrs or unknown:** 2.3%.

LAND MANAGEMENT in decreasing predominance: U. S. Bureau of Land Management, U. S. Fish and Wildlife Service, U. S. Department of Defense, Humboldt-Toiyabe National Forest, private lands (?).

RANGE: Clark, Lincoln, and Nye counties, Nevada; also in CA (extirpated). **Nevada endemic.** Maximum **range dimension 123.7 km (76.9 mi)** excluding most disjunct record. **Type specimen** collected in Clark County.

ELEVATIONS RECORDED: 3000-5600 feet (914-1707 meters).

HABITAT: Carbonate gravels and derivative soils on terraced hills and ledges, open slopes, and along washes in the creosote-bursage, blackbrush, and mixed-shrub zones.

PHENOLOGY: flowering early-spring. Range of most frequent **survey months:** April-June.

LIFE-FORM AND HABIT: annual or short-lived perennial herb.

DESCRIPTION: This variety is similar to *Astragalus mohavensis* var. *mohavensis*, but has slightly smaller flowers, and shorter, curved or coiled fruits.

PHOTOGRAPHS: Knight and Smith (1994), Knight et al. (1997), Niles et al. (1999), Weixelman and Atwood (1990); Nevada Natural Heritage Program files.

ILLUSTRATIONS: Mazingo and Williams (1980), Weixelman and Atwood (1990).

OTHER GENERAL REFERENCES (listed separately): Barneby (1964), Clokey (1951), Hickman (1993), Niles et al. (1998).

SPECIFIC REFERENCES:

Barneby, R. C. 1950. Pugillus astragalorum XII. Some problems in California. *Aliso* 2: 203-215.

Clokey, I. W. 1942. Notes on the flora of the Charleston Mountains, Clark County, Nevada. IV. *Astragalus*. *Madroño* 6: 211-222.

Jones, M. E. 1923. Revision of North American *Astragalus*. Salt Lake City, Utah: privately published. 288 pages.

Knight, T. A. 1989. Status report for *Astragalus mohavensis* S. Watson var. *hemigyris* (Clokey) Barneby. Carson City: Nevada Natural Heritage Program, prepared for the U. S. Fish and Wildlife Service, Reno.

Welsh, S. 1982. Status report for *Astragalus mohavensis* var. *hemigyris*. Portland, Oregon: U. S. Fish and Wildlife Service.

OF FURTHER INTEREST: Hickman (1993) and CAHP spell this A. MOJAVENSIS.
