

***Astragalus yoder-williamsii* Barneby (1980) OSGOOD MOUNTAINS MILKVETCH**

**FAMILY:** *Fabaceae*, the legume family.

**STATUS:** **Heritage Program SENSITIVE LIST, ranks: G3 S1**

**USFWS/ESA:** species of concern. **STATE OF NEVADA:** FULLY PROTECTED. **BLM:** Special Status Species in Nevada. **USFS:** Humboldt-Toiyabe NF Sensitive Species. **NNNPS:** watch list.

**POPULATION CENSUS (NEVADA):** **2 occurrences mapped;** total estimated **individuals 3625**, total estimated **area 8.9 ha (22.0 ac)**. **TREND:** unknown.

**IMPACTS AND MAJOR THREATS (NEVADA):** Mineral exploration and development, road maintenance and off-road vehicle use, trampling by livestock and feral animals, competition from invasive weeds.

**INVENTORY EFFORT (NEVADA):** Extensive targeted surveys have been conducted but remain largely incomplete in Nevada. Most recent entered survey 1999, average year of last survey 1998. **Years since last entered survey** (percent of mapped records at various survey ages): **0-5 yrs: 100%**.

**LAND MANAGEMENT (NEVADA)** in decreasing predominance: U. S. Bureau of Land Management, private lands (?), Native American lands (?).

**RANGE:** Elko and Humboldt counties, Nevada; also in ID. Maximum Nevada **range dimension 107.4 km (66.8 mi)**. **Type specimen** collected in Humboldt County.

**ELEVATIONS RECORDED (NEVADA):** 5660-7300 feet (1725-2225 meters).

**HABITAT (NEVADA):** Dry, open, coarse decomposed granodiorite soils among boulders on flats and gentle slopes (recently also found in loose silty soils on a moderate south slope) in healthy sagebrush steppe vegetation with *Artemisia arbuscula*, *A. tridentata* ssp. *vaseyana*, *Chrysothamnus nauseosus*, *Poa secunda* var. *secunda*, *Agropyron spicatum*, *Stipa thurberiana*, *Stipa comata*, *Festuca idahoensis*, *Elymus cinereus*, etc.

**PHENOLOGY:** flowering late-spring to summer. Range of most frequent **survey months:** June-July.

**LIFE-FORM AND HABIT:** small perennial herb.

**DESCRIPTION:** A dwarf perennial herb that forms dense clumps up to 7 cm tall, Flowers (summer) are inconspicuous, whitish.

**PHOTOGRAPHS:** Anderson et al. (1991), Knight (1991); Nevada Natural Heritage Program images web page (1998-present) and files.

**ILLUSTRATIONS:** Anderson et al. (1991), Barneby (1980), Barneby (1989).

**SPECIFIC REFERENCES:**

- Barneby, R. C. 1980. *Dragma hippomanicum* VI: A new Tragacanthoid *Astragalus* from Nevada and Idaho. *Brittonia* 32: 30-32.
  - Barneby, R. C. 1980. *Dragma hippomanicum* V. Two new *Astragali* from intermountain United States. *Brittonia* 32: 24-29.
  - Knight, T. A. 1991. Status report for *Astragalus yoder-williamsii* Barneby. Carson City: Nevada Natural Heritage Program, prepared for the Bureau of Land Management, Winnemucca District, Winnemucca, Nevada.
  - Rosentreter, R. 1986. Sensitive and uncommon plants in the Boise District Bureau of Land Management. Boise, Idaho: Bureau of Land Management Technical Bulletin. 87 pages.
  - Yoder-Williams, M. 1980. Status report for *Astragalus yoder-williamsii*. Portland, Oregon: U. S. Fish and Wildlife Service.
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