

Astragalus tiehmii Barneby (1984)**TIEHM MILKVETCH**

FAMILY: *Fabaceae*, the legume family.

STATUS: **Heritage Program SENSITIVE LIST, ranks: G3 S3**

USFWS/ESA: species of concern. **STATE OF NEVADA:** none. **BLM:** Special Status Species. **USFS:** none.

NNNPS: watch list.

POPULATION CENSUS: **26 occurrences mapped** at 1.0 km (0.6 mi) separation, OR **85 occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals 671,000+**, total estimated **area 163+ ha (403+ ac)**. **TREND:** unknown.

IMPACTS AND MAJOR THREATS: No summary available (see references).

INVENTORY EFFORT: Surveys are substantially complete. Most recent entered survey 1998, average year of last survey 1991. **Years since last entered survey** (percent of mapped records at various survey ages): **0-5 yrs:** 1.2%; **6-10 yrs:** 80%; **11-20 yrs:** 18.8%.

LAND MANAGEMENT in decreasing predominance: U. S. Bureau of Land Management, private lands.

RANGE: Humboldt and Washoe counties, Nevada. **Nevada endemic.** Maximum **range dimension 49.4 km (30.7 mi)** excluding most disjunct record. **Type specimen** collected in Washoe County.

ELEVATIONS RECORDED: 5280-5750 feet (1609-1753 meters).

HABITAT: Whitish fluviolacustrine volcanic ash deposits weathering to deep clay soils, generally on gentle slopes of any aspect, with *Chrysothamnus*, *Sphaeralcea*, *Stanleya viridiflora*, etc., and frequently with *Cryptantha schoolcraftii* and/or *Eriogonum crosbyae*.

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

LIFE-FORM AND HABIT: small short-lived perennial herb.

DESCRIPTION: A diminutive, prostrate perennial herb that forms dense mats of pallid foliage, 1-4.5 dm in diameter. Whitish flowers bloom in June and July.

PHOTOGRAPHS: Nevada Natural Heritage Program images web page (1998-present), slide collection (1986-present), and files.

ILLUSTRATIONS: Barneby (1989).

SPECIFIC REFERENCES:

Barneby, R. C. 1984. *Dragma hippomanicum* X: *Astragali* (Leguminosae) nevadenses novi criticive, singulo peruviano adjecto. *Brittonia* 36: 167-173.

Schoolcraft, G. 1989. Species management guide for *Eriogonum crosbyae*. Susanville, California: Bureau of Land Management.
