**Astragalus johannis-howellii** Barneby

**LONG VALLEY MILKVETCH**

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

**STATUS:** *Heritage Program SENSITIVE LIST, ranks: G2 S1*

- USFWS/ESA: none.
- STATE OF NEVADA: none.
- BLM: Special Status Species in California.
- USFS: Inyo NF watch list.
- NNNPS: none.

**POPULATION CENSUS (NEVADA):** 5 occurrences mapped; total estimated **individuals 5282+**, total estimated **area 12.6+ ha (31.1+ ac)**. **TREND:** unknown.

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

**INVENTORY EFFORT (NEVADA):** Not yet systematically surveyed in Nevada. Most recent entered survey 1993, average year of last survey 1984. **Years since last entered survey** (percent of mapped records at various survey ages): 6-10 yrs: 20%; 11-20 yrs: 80%.


**RANGE:** Mineral County, Nevada; also in CA. Maximum Nevada **range dimension 20.2 km (12.5 mi)** excluding most disjunct record.

**ELEVATIONS RECORDED (NEVADA):** 7080-8430 feet (2158-2569 meters).

**HABITAT (NEVADA):** Sandy rhyolitic soils on flats and gentle slopes of mountain sagebrush (*Artemisia tridentata var. vaseyana)*.

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

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

**DESCRIPTION:** not available (see references).

**PHOTOGRAPHS:** Nevada Natural Heritage Program images web page (1998-present).

**ILLUSTRATIONS:** Barneby (1989).


**SPECIFIC REFERENCES:**