

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%.

LAND MANAGEMENT (NEVADA) in decreasing predominance: Humboldt-Toiyabe National Forest, U. S. Bureau of Land Management.

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).

OTHER GENERAL REFERENCES (listed separately): Barneby (1964), Hickman (1993).

SPECIFIC REFERENCES:

Morefield, J. D. 1994. Current knowledge and conservation status of *Arabis bodiensis* Rollins (Brassicaceae), Bodie Hills rockcress, in Nevada. Carson City: Nevada Natural Heritage Program, status report prepared for the U. S. Fish and Wildlife Service, Reno.
