

Astragalus robbinsii* (Oakes) A. Gray var. *occidentalis* S. Watson*LAMOILLE CANYON MILKVETCH**

FAMILY: *Fabaceae*, the legume family.

STATUS: **Heritage Program SENSITIVE LIST, ranks: G5 T2T3 S2S3**
USFWS/ESA: species of concern. **STATE OF NEVADA:** none. **BLM:** Special Status Species. **USFS:** Humboldt-Toiyabe NF Sensitive Species. **NNNPS:** watch list.

POPULATION CENSUS: **30 extant occurrences mapped** at 1.0 km (0.6 mi) separation, OR **37 extant and 1 extirpated occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals 3214+**, total estimated **area unknown**. **TREND:** unknown.

IMPACTS AND MAJOR THREATS: Habitat outside wilderness area vulnerable to recreational use and development, livestock grazing and trampling and resulting long-term habitat degradation, road construction and maintenance, possible mineral exploration and development.

INVENTORY EFFORT: Surveys have been substantial, but considerable potential habitat likely remains to be examined. Most recent entered survey 1997, average year of last survey 1985. **Years since last entered survey** (percent of mapped records at various survey ages): **0-5 yrs:** 7.9%; **6-10 yrs:** 34.2%; **11-20 yrs:** 50%; **21-30 yrs:** 2.6%; **51+ yrs or unknown:** 5.3%.

LAND MANAGEMENT in decreasing predominance: Humboldt-Toiyabe National Forest, designated wilderness, private lands, Nevada state lands (?), U. S. Bureau of Land Management (?).

RANGE: Elko County, Nevada. Endemic to the Ruby Mountains. Maximum **range dimension 57.2 km (35.6 mi)** excluding most disjunct record.

ELEVATIONS RECORDED: 6050-10000 feet (1844-3048 meters).

HABITAT: Moist to seasonally dry sandy loam soils in seeps, riparian strips or edges, near stream banks, or higher-elevation meadow margins, in *Salix*, *Populus*, and/or *Potentilla fruticosa* communities with *Carex*, *Juncus*, etc. Aquatic or wetland-dependent.

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

LIFE-FORM AND HABIT: perennial herb.

DESCRIPTION: not available (see references).

PHOTOGRAPHS: Anderson et al. (1991), Smith (1988); Nevada Natural Heritage Program slide collection (1986-present) and files.

ILLUSTRATIONS: Anderson et al. (1991), Barneby (1989), Mozingo and Williams (1980).

OTHER GENERAL REFERENCES (listed separately): Barneby (1964).

SPECIFIC REFERENCES:

Goodrich, S. 1979. Status report on *Astragalus robbinsii* var. *occidentalis*. Portland, Oregon: U. S. Fish and Wildlife Service.

Smith, F. J. 1988. Status report for *Astragalus robbinsii* var. *occidentalis* Wats. Carson City: Nevada Natural Heritage Program.

OF FURTHER INTEREST: Distinct taxon.
