

Astragalus pseudiodanthus Barneby**TONOPAH MILKVETCH****FAMILY:** *Fabaceae*, the legume family.**SYNONYMS:** *Astragalus iodanthus* var. *pseudiodanthus***STATUS:****Heritage Program SENSITIVE LIST, ranks: G2Q S2**

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

POPULATION CENSUS (NEVADA): 15 occurrences mapped; total estimated **individuals 1420+**, total estimated **area unknown.** **TREND:** unknown.**IMPACTS AND MAJOR THREATS (NEVADA):** No summary available (see references).**INVENTORY EFFORT (NEVADA):** Substantial surveys have been conducted in potential habitat, but likely remain incomplete in Nevada. Most recent entered survey 1998, average year of last survey 1977.**Years since last entered survey** (percent of mapped records at various survey ages): **0-5 yrs:** 6.7%; **11-20 yrs:** 33.3%; **21-30 yrs:** 46.7%; **51+ yrs or unknown:** 13.3%.**LAND MANAGEMENT (NEVADA)** in decreasing predominance: U. S. Bureau of Land Management, Nevada state lands, Native American lands, private lands, U. S. Department of Defense (?), Humboldt-Toiyabe National Forest (?).**RANGE:** Churchill, Esmeralda, Lyon (?), Mineral, and Nye counties, Nevada; also in CA. Maximum Nevada **range dimension 184.5 km (114.7 mi)** excluding most disjunct record.**ELEVATIONS RECORDED (NEVADA):** 4535-6000 feet (1382-1829 meters).**HABITAT (NEVADA):** Deep loose sandy soils of stabilized and active dune margins, old beaches, valley floors, or drainages, with *Sarcobatus vermiculatus* and other salt desert shrub taxa. Dependent on sand dunes or deep sand in Nevada.**PHENOLOGY:** flowering late-spring. Range of most frequent **survey months:** May-June.**LIFE-FORM AND HABIT:** perennial herb from a buried root crown.**DESCRIPTION:** not available (see references).**PHOTOGRAPHS:** none known.**ILLUSTRATIONS:** Barneby (1989), Mozingo and Williams (1980).**OTHER GENERAL REFERENCES** (listed separately): Barneby (1964), Goodrich (1981), Hickman (1993), Isely (1998), Rhoads et al. (1979).**SPECIFIC REFERENCES:**Barneby, R. C. 1942. *Pugillus astragalorum nevadensium*. Leaflets of Western Botany 3: 97-114.Pavlik, B. 1985. Sand dune flora of the Great Basin and Mojave Deserts of California, Nevada, and Oregon. *Madroño* 32: 197-213.Pavlik, B. M. 1989. Phytogeography of sand dunes in the Great Basin and Mojave deserts. *Journal of Biogeography* 16: 227-238.**OF FURTHER INTEREST:** Isely (1998) treats this taxon as a variety of *A. iodanthus*.