

Potentilla basaltica Tiehm & Ertter**SOLDIER MEADOW CINQUEFOIL**

FAMILY: *Rosaceae*, the rose family.

STATUS:

Heritage Program SENSITIVE LIST, ranks: G1 S1

USFWS/ESA: species of concern, formerly CANDIDATE or PROPOSED. **STATE OF NEVADA:** none.

BLM: Special Status Species in Nevada. **USFS:** none. **NNNPS:** THREATENED.

POPULATION CENSUS (NEVADA): **2 occurrences mapped** at 1.0 km (0.6 mi) separation, **OR 9 occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals 84,000+**, total estimated **area 26.7+ ha (66.0+ ac)**.

TREND: unknown.

IMPACTS AND MAJOR THREATS (NEVADA): Recreational use of habitat by bathers, hunters, and others, off-road vehicle use, water diversions and alteration of hydrology, competition with invasive weeds, etc.

INVENTORY EFFORT (NEVADA): Surveys in Nevada are substantially complete, but some potential habitat may remain unexamined, given the species' recent discovery in California. Most recent entered survey 1990, average year of last survey 1990. **Years since last entered survey** (percent of mapped records at various survey ages): **11-20 yrs: 100%**.

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

RANGE: Humboldt County, Nevada; also in CA. In Nevada restricted to the Soldier Meadows area in the northern Black Rock Desert. Maximum Nevada **range dimension 2.6 km (1.6 mi)** excluding most disjunct record.

ELEVATIONS RECORDED (NEVADA): 4380-4580 feet (1335-1396 meters).

HABITAT (NEVADA): Moist salt-crust clay in alkaline meadows above, and cooled outflow stream margins below, thermal springs, generally on slight southeast slopes, with *Juncus balticus*, *Scirpus maritimus*, *S. acutus*, *Triglochin maritima*, *Distichlis spicata*, *Sisyrinchium halophilum*, *Nitrophila occidentalis*, *Carex* spp., *Pyrrocoma racemosa*, *Solidago spectabilis*, *Sphaeromeria potentilloides*, *Astragalus argophyllus*, *Lotus purshianus*, *Ericameria nauseosa*, *Sarcobatus vermiculatus*, etc. Aquatic or wetland-dependent in Nevada.

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

LIFE-FORM AND HABIT: perennial herb.

DESCRIPTION: An herbaceous perennial with prostrate stems 5 dm long extending from rosette-forming basal leaves. Bright yellow flowers occur in loose clusters at the end of the stems.

PHOTOGRAPHS: Knight (1990); Nevada Natural Heritage Program images web page (1998-present), slide collection (1986-present), and files.

ILLUSTRATIONS: Cronquist et al. (1997), Tiehm and Ertter (1984).

OTHER GENERAL REFERENCES (listed separately): Hickman (1993).

SPECIFIC REFERENCES:

Knight, T. A. 1990. Status report for *Potentilla basaltica* Tiehm and Ertter. Carson City: Nevada Natural Heritage Program, prepared for the U. S. Fish and Wildlife Service, Reno.

Tiehm, A. and B. Ertter. 1984. *Potentilla basaltica* (Rosaceae), a new species from Nevada. *Brittonia* 36: 228-231.
