

Arabis pinzliae Rollins (1982)**PINZL ROCKCRESS**

FAMILY: *Brassicaceae*, the mustard family.

STATUS:

Heritage Program SENSITIVE LIST, ranks: G2 S2

USFWS/ESA: species of concern. **STATE OF NEVADA:** none. **BLM:** none. **USFS:** Inyo NF Sensitive Species.
NNNPS: watch list.

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 2350, total estimated area 15.8 ha (39.0 ac).

TREND: unknown.

IMPACTS AND MAJOR THREATS (NEVADA): Minimal due to inaccessible habitat, limited to foot traffic from recreationists, pack horses, and feral horses, and small population numbers and areas. The species has some tolerance for loose shifting soils.

INVENTORY EFFORT (NEVADA): Surveys in Nevada are substantially complete; more work is needed in California. Most recent entered survey 1993, average year of last survey 1993. **Years since last entered survey** (percent of mapped records at various survey ages): **6-10 yrs:** 100%.

LAND MANAGEMENT (NEVADA) in decreasing predominance: designated wilderness, Inyo National Forest.

RANGE: Esmeralda County, Nevada; also in CA. In Nevada known only from the Boundary Peak area of the White Mountains. Maximum Nevada **range dimension 2.1 km (1.3 mi)** excluding most disjunct record. **Type specimen** collected in Esmeralda County.

ELEVATIONS RECORDED (NEVADA): 9880-11540 feet (3011-3517 meters).

HABITAT (NEVADA): Deep, loose, sandy to gravelly granitic scree or alluvium in mostly steeply-sloped dry drainages, avalanche chutes, and snow depressions on north to east aspects, with a sparse cover of other species such as *Ericameria suffruticosa*, *Eriophyllum lanatum* var. *integrifolium*, *Erysimum capitatum*, *Arabis platysperma*, and *Raillardella argentea*, in the subalpine conifer forest, subalpine sagebrush, and alpine fell-field zones.

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

LIFE-FORM AND HABIT: small perennial herb.

DESCRIPTION: A small perennial herb, 3-8 cm high, with disproportionately large purple fruit (pods), which are sometimes as large or larger than the entire plant. Flowers are purple tinged; fruits in July and August.

PHOTOGRAPHS: Morefield (1994), Weixelman and Atwood (1990); Nevada Natural Heritage Program slide collection (1986-present) and files.

ILLUSTRATIONS: Weixelman and Atwood (1990).

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

SPECIFIC REFERENCES:

Morefield, J. D., and D. W. Taylor. 1990. Noteworthy collections, California. *Madroño* 37: 64-65.

Morefield, J. D. 1994. Status report for *Arabis pinzliae* Rollins. Carson City: Nevada Natural Heritage Program, prepared for the Inyo National Forest, Bishop, CA.

Rollins, R. C. 1982. Studies on *Arabis* (Cruciferae) of western North America II. Contributions from the Gray Herbarium 212: 103-114.

OF FURTHER INTEREST: May be only varietally distinct from *Arabis platysperma*.
