

Phacelia beatleyae Reveal & Constance (1972)**BEATLEY SCORPION PLANT**

FAMILY: *Hydrophyllaceae*, the waterleaf family.

STATUS: **Heritage Program SENSITIVE LIST, ranks: G3 S3**

USFWS/ESA: species of concern. **STATE OF NEVADA:** none. **BLM:** Special Status Species. **USFS:** none.

NNNPS: watch list.

POPULATION CENSUS: **15 occurrences mapped** at 1.0 km (0.6 mi) separation, OR **25 occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals 40,000+**, total estimated **area 482+ ha (1191+ ac)**. **TREND:** unknown.

IMPACTS AND MAJOR THREATS: Loose substrate, engineering activities, consumption of seeds by wildlife.

INVENTORY EFFORT: Surveys have been fairly extensive, but more undocumented occurrences likely remain to be found. Most recent entered survey 1993, average year of last survey 1989. **Years since last entered survey** (percent of mapped records at various survey ages): **6-10 yrs:** 76%; **21-30 yrs:** 24%.

LAND MANAGEMENT in decreasing predominance: U. S. Department of Energy, U. S. Department of Defense, U. S. Fish and Wildlife Service, U. S. Bureau of Land Management (?).

RANGE: Lincoln and Nye counties, Nevada. **Nevada endemic.** Maximum **range dimension 25.3 km (15.7 mi)** excluding most disjunct record. **Type specimen** collected in Nye County.

ELEVATIONS RECORDED: 3540-5500 feet (1079-1676 meters).

HABITAT: Dry, open, nearly barren scree and loose gravelly soils on slopes and bases of white to brownish volcanic tuff outcrops on all slopes and aspects, and in adjacent drainages, in the mixed-shrub, blackbrush, shadscale, and upper creosote-bursage zones.

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

LIFE-FORM AND HABIT: small annual.

DESCRIPTION: An annual herb, 5-10 cm tall, with a reddish stem and slightly fleshy, dark green leaves. Flowers (April and May) are borne on one side of a coiled flowering stalk. The petals are lavender with a yellow, tubular base.

Distinguishing features: Might be confused with *Phacelia parishii*, and undescribed *Phacelia*, and other similar species on casual inspection.

PHOTOGRAPHS: Blomquist et al. (1995), Knight and Smith (1995), Knight et al. (1997); Nevada Natural Heritage Program files.

ILLUSTRATIONS: Cronquist et al. (1984), Mozingo and Williams (1980), Reveal and Constance (1972).

OTHER GENERAL REFERENCES (listed separately): Ackerman (1981), Beatley (1976), Beatley (1977), Cochrane (1979), Rhoads et al. (1979).

SPECIFIC REFERENCES:

Henifin, M. S. 1978. Status report for *Phacelia beatleyae*. Portland, Oregon: U. S. Fish and Wildlife Service.

Reveal, J. L. and L. Constance. 1972. A new *Phacelia* (*Hydrophyllaceae*) from southern Nevada. *Brittonia* 24: 199-201.
