

**Enceliopsis nudicaulis** (A. Gray) A. Nelson **var. *corrugata*** Cronquist (1972)**ASH MEADOWS SUNRAY**

**FAMILY:** *Asteraceae*, the sunflower family.

**STATUS:** **Heritage Program SENSITIVE LIST, ranks: G5 T2 S2**

**USFWS/ESA:** LISTED THREATENED. **STATE OF NEVADA:** FULLY PROTECTED. **BLM:** Special Status Species in Nevada. **USFS:** none. **NNNPS:** THREATENED.

**POPULATION CENSUS:** **11 occurrences mapped** at 1.0 km (0.6 mi) separation, OR **15 occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals 1849+**, total estimated **area 10.9+ ha (26.9+ ac)**. **TREND:** unknown.

**IMPACTS AND MAJOR THREATS:** Development, agriculture, proposed missile system.

**INVENTORY EFFORT:** Surveys substantially complete. Most recent entered survey 1986, average year of last survey 1979. **Years since last entered survey** (percent of mapped records at various survey ages): **11-20 yrs:** 60%; **21-30 yrs:** 6.7%; **31-50 yrs:** 33.3%.

**LAND MANAGEMENT** in decreasing predominance: U. S. Fish and Wildlife Service, U. S. Bureau of Land Management, private lands.

**RANGE:** Nye County, Nevada; also in CA (?). Apparently endemic to the Ash Meadows area, with a few intermediate populations found beyond. Maximum **range dimension 9.7 km (6.0 mi)** excluding most disjunct record. **Type specimen** collected in Nye County.

**ELEVATIONS RECORDED (NEVADA):** 2200-2360 feet (671-719 meters).

**HABITAT:** Dry to somewhat moist, open, hard, whitish, strongly alkaline silty to clay soils, often on or near low calcareous outcrops, in spring and seep areas in the creosote-bursage and shadscale zones with *Atriplex confertifolia*, *Haplopappus acradenius*, *Distichlis spicata*, *Gutierrezia sarothrae*, *Krameria*, *Cryptantha confertiflora*, *Arctomecon merriamii*, *Mentzelia leucophylla*, *Astragalus phoenix*, *Ivesia kingii eremica*, *Grindelia fraxinopratisensis*, etc.

**PHENOLOGY:** flowering early-spring. Range of most frequent **survey months:** April-August.

**LIFE-FORM AND HABIT:** perennial cushion.

**DESCRIPTION:** A perennial herb with grayish, basal leaves and leafless flower stalks, 1-4 dm high, each bearing a single yellow flower head. Flowers in April and May.

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

**ILLUSTRATIONS:** Mozingo and Williams (1980).

**OTHER GENERAL REFERENCES** (listed separately): Beatley (1976), Beatley (1977), Beatley (1977).

**SPECIFIC REFERENCES:**

Cronquist, A. 1972. A new variety of *Enceliopsis nudicaulis* (Asteraceae) from southern Nevada. *Bulletin of the Torrey Botanical Club* 99: 246-247.

**OF FURTHER INTEREST:** Reported from Death Valley in California, but these may represent intermediate populations, and need to be further verified.

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