

***Angelica scabrida*** Clokey & Mathias ex Clokey (1938)

**ROUGH ANGELICA**

**FAMILY:** *Apiaceae*, the carrot family.

**STATUS:** **Heritage Program SENSITIVE LIST, ranks: G2 S2**

**USFWS/ESA:** species of concern. **STATE OF NEVADA:** none. **BLM:** Special Status Species. **USFS:** Humboldt-Toiyabe NF Sensitive Species. **NNNPS:** THREATENED.

**POPULATION CENSUS:** **12 occurrences mapped** at 1.0 km (0.6 mi) separation, **OR 21 occurrences mapped** at 0.16 km (0.1 mi) separation; total estimated **individuals 3781+**, total estimated **area 55.3+ ha (137+ ac)**. **TREND:** unknown.

**IMPACTS AND MAJOR THREATS:** Recreational use of the area where species is found.

**INVENTORY EFFORT:** Surveys have been extensive and are largely complete. Most recent entered survey 1995, average year of last survey 1985. **Years since last entered survey** (percent of mapped records at various survey ages): **6-10 yrs:** 57.1%; **11-20 yrs:** 14.3%; **21-30 yrs:** 9.5%; **31-50 yrs:** 19%.

**LAND MANAGEMENT** in decreasing predominance: U. S. Bureau of Land Management, Humboldt-Toiyabe National Forest, private lands, designated wilderness, Nevada state lands (?).

**RANGE:** Clark County, Nevada. Endemic to the Spring Mountains. Maximum **range dimension 27.7 km (17.2 mi)** excluding most disjunct record. **Type specimen** collected in Clark County.

**ELEVATIONS RECORDED:** 4040-9350 feet (1231-2850 meters).

**HABITAT:** Moist rocky calcareous drainages, canyon bottoms, or seepy or north-facing slopes over carbonate or sandstone rock in the interior chaparral, mountain brush, and montane coniferous forest zones. Aquatic or wetland-dependent.

**PHENOLOGY:** flowering summer. Range of most frequent **survey months:** June-August.

**LIFE-FORM AND HABIT:** robust perennial herb.

**DESCRIPTION:** A tall perennial herb, up to 15 dm high, with globular clusters of white flowers blooming July-September. This species is a nectar source for the endemic Carole silverspot (*Speyeria zerene carolae*).

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

**ILLUSTRATIONS:** Mozingo and Williams (1980), Weixelman and Atwood (1990).

**OTHER GENERAL REFERENCES** (listed separately): Clokey (1951), Sada and Nachlinger (1996).

**SPECIFIC REFERENCES:**

Atwood, N. D. 1980. Status report for *Angelica scabrida*. Provo, Utah: U. S. Forest Service, Region 4. 5 pages.

Clokey, I. W. 1938. Notes on the Flora of the Charleston Mountains, Clark County, Nevada. Bulletin of the Southern California Academy of Sciences 37: 1-11.

WESTEC Services, Inc. 1980. Field research of rare plants in Las Vegas ES area, Clark County, Las Vegas, Nevada. Las Vegas: Bureau of Land Management.

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