

Penstemon fruticiformis* Coville *ssp. amargosae* Keck*DEATH VALLEY BEARDTONGUE**

FAMILY: *Scrophulariaceae*, the figwort family.

STATUS:

Heritage Program SENSITIVE LIST, ranks: G4 T3 S2

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

USFS: Humboldt-Toiyabe NF Sensitive Species. **NNNPS:** THREATENED.

POPULATION CENSUS (NEVADA): **17 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 unknown**, total estimated **area 91.7+ ha (227+ ac)**.
TREND: unknown.

IMPACTS AND MAJOR THREATS (NEVADA): No summary available (see references).

INVENTORY EFFORT (NEVADA): Surveys have been extensive and are ongoing, but remain incomplete. Most recent entered survey 1999, average year of last survey 1990. **Years since last entered survey** (percent of mapped records at various survey ages): **0-5 yrs:** 56.5%; **6-10 yrs:** 26.1%; **11-20 yrs:** 4.3%; **21-30 yrs:** 4.3%; **31-50 yrs:** 4.3%; **51+ yrs or unknown:** 4.3%.

LAND MANAGEMENT (NEVADA) in decreasing predominance: U. S. Bureau of Land Management, U. S. Department of Energy, private lands, Humboldt-Toiyabe National Forest.

RANGE: Clark (?) and Nye counties, Nevada; also in CA. Maximum Nevada **range dimension 46.5 km (28.9 mi)** excluding most disjunct record.

ELEVATIONS RECORDED (NEVADA): 3100-6332 feet (945-1930 meters).

HABITAT: no summary available (see references).

PHENOLOGY: no summary available. Range of most frequent **survey months:** April-June.

DESCRIPTION: not available (see references).

PHOTOGRAPHS: Blomquist et al. (1995), Niles et al. (1999), Weixelman and Atwood (1990); Nevada Natural Heritage Program images web page (1998-present) and files.

ILLUSTRATIONS: Cronquist et al. (1984), Mozingo and Williams (1980), Weixelman and Atwood (1990).

OTHER GENERAL REFERENCES (listed separately): Beatley (1976), Hickman (1993), Niles et al. (1998).

SPECIFIC REFERENCES:

Crosswhite, F. S. 1965. Four new Nevadan species of *Penstemon* (Scrophulariaceae). *Leaflets of Western Botany* 10: 168-172.

Keck, D. D. 1937. Studies in *Penstemon* V. The section *Peltanthera*. *American Midland Naturalist* 18: 790-829.

Woodbury, K. 1980. Status report for *Penstemon francisci-pennellii*. Portland, Oregon: U. S. Fish and Wildlife Service.

OF FURTHER INTEREST: USFWS tracks as synonym 01 - *PENSTEMON FRUTICIFORMIS* var. *AMARGOSAE* (9/93).
