

ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

Element Code: PDSCR1L4A0

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Penstemon nudiflorus*

COMMON NAME: Flagstaff beardtongue

SYNONYMS:

FAMILY: Scrophulariaceae

AUTHOR, PLACE OF PUBLICATION: A. Gray, Proc. Amer. Acad. Arts 20: 206. 1885.

TYPE LOCALITY: United States of America. Arizona. Coconino County. Flagstaff.

TYPE SPECIMEN: HT: GH, J.G. Lemmon 3227, 1884, flower and fruit.

TAXONOMIC UNIQUENESS: The species *nudiflorus* is 1 of 246 in the genus *Penstemon*.

DESCRIPTION: Herbaceous perennial with blue-whitish leaves and stems. Stems are solitary or few, 50-100 cm (20-39 in) tall, often puberulent toward the base, glabrous above. The leaf blades are mostly lanceolate, entire, 3-7 cm (1.18-2.8 in) long, the basal blades narrowed to a petiole, the cauline ones sessile and somewhat clasping. Lavender flowers in an open panicle, the divergent peduncles 1-3 cm long, the pedicels 5-20 mm long. The calyx is about 3 mm long, the lobes are oblong to nearly orbicular. The lavender corolla is 20-30 mm long and about 10 mm wide at the throat, pilose at the orifice, otherwise glabrous or nearly so; staminode bearded. (McDougall 1973).

AIDS TO IDENTIFICATION:

ILLUSTRATIONS:

TOTAL RANGE: Endemic to Arizona. Found in Apache, Coconino, Gila, Navajo, and Yavapai counties.

RANGE WITHIN ARIZONA: See "Total Range."

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Perennial forb/herb.

PHENOLOGY: Flowers in summer from June to August.

BIOLOGY:

HABITAT: Dry ponderosa pine (*Pinus ponderosa*) forests in mountainous regions south of the Grand Canyon, Arizona. 1370-2130 m elevation. (NatureServe 2002).

ELEVATION: 5,035 – 7,375 ft (1536-2250 m), based on record in the Heritage Data Management System (AGFD, unpublished data accessed 2003). NatureServe (2002) reports elevation range of 1370 – 2130 m (4,492-6,984 ft).

EXPOSURE:

SUBSTRATE:

PLANT COMMUNITY: In Arizona (select survey areas in the Prescott National Forest), associated plants SW of Pinetop Mountain includes: *Bouteloua gracilis*, *Cercocarpus montanus*, *Coryphantha vivipara*, *Hymenopappus filifolius*, *Juniperus deppeana*, *Penstemon linarioides*, *Pinus ponderosa*, *Psoralidium tenuiflora*, and *Quercus emoryi*. Associated plants on a hillside of basalt rocks on the north side of Horse Wash includes: *Arctostaphylos pungens*, *B. curtipendula*, *Eriogonum umbellatum*, *Forestiera pubescens*, *J. osteosperma*, *Lotus utahensis*, *Opuntia engelmannii*, *P. linarioides*, *Q. turbinella*, *Rhamnus crocea*, *Rhus trilobata*, *Senecio*, and *Yucca baccata*. (Baker and Wright 1994).

POPULATION HISTORY AND TRENDS: Not abundant in any known occurrences.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS:

STATE STATUS:

OTHER STATUS:

Forest Service Sensitive (USDA, FS Region 3 1999)

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: BIA – Fort Apache Reservation; USFS – Coconino, Kaibab, Prescott, and Tonto National Forests; Private.

SOURCES OF FURTHER INFORMATION

REFERENCES:

- Baker, M.A., and T. Wright. 1994. A botanical survey of the Camp Wood, Williamson Valley, Yolo North, and Yolo South grazing allotments of the Chino Valley Ranger District, Prescott National Forest, Arizona. Final Report. Written in fulfillment of Contract order No. 43-8191-3-0132.
- Harvard University Specimens. Index of Botanical Specimens. <http://brimsa.huh.harvard.edu/cms-wb/specimens.jsp>. Accessed: 2/26/2003.
- Integrated Taxonomic Information System (ITIS). Retrieved 2/26/2003 from ITIS, <http://www.itis.usda.gov>.
- Kearney, T.H., R.H. Peebles, and collaborators. 1951. Arizona Flora. University of California Press, Berkeley, California. P. 775.
- McDougall, W.B. 1973. Seed Plants of Northern Arizona. The Museum of Northern Arizona, Flagstaff, Arizona. P. 450.
- NatureServe Explorer: An online encyclopedia of life [web application]. 2002. Version 1.6. Arlington, Virginia, USA: NatureServe. Available: <http://www.natureserve.org/explorer>. (Accessed: February 26, 2003).
- USDA, Forest Service Region 3. 1999. Regional Forester's Sensitive Species List.
- USDA, NRCS. 2002. The PLANTS Database, Version 3.5 (<http://plants.usda.gov>). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

MAJOR KNOWLEDGEABLE INDIVIDUALS:

ADDITIONAL INFORMATION:

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