

ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

Element Code: PDAST3M530

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Erigeron sivinskii*
COMMON NAME: Sivinski's fleabane; Sivinsk's erigeron.
SYNONYMS:
FAMILY: Asteraceae

AUTHOR, PLACE OF PUBLICATION: G.L. Nesom, *Phytologia* 71(5):416. 1991 [1992].

TYPE LOCALITY:

TYPE SPECIMEN: HT: UNM, R.C. Sivinski 1687 and K. Lightfoot. IT: TEX.

TAXONOMIC UNIQUENESS: The species *sivinskii* is 1 of 171 in the genus *Erigeron*.

DESCRIPTION: Perennial herb arising from a thick taproot with numerous caudex branches. Stems erect, 5-8 cm tall (2-3 in), unbranched, green, sparsely short strigose with white, stiff, closely appressed trichomes. Leaves green, arising in basal clusters, linear, 9-34 mm long, 0.5-0.8 mm wide, erect to ascending. Heads solitary, terminal, involucre cup-shaped, 10-14 mm wide. Ray flowers 21-33, white, drying pinkish, corollas 7-10 mm long. Phyllaries green, thin, and herbaceous, in 2-3 subequal series, 5-7 mm long. Achenes 2(-3) nerved, narrowly oblong, 2.8-3.1 mm long, the faces glabrous, the margins sparsely ciliate.

AIDS TO IDENTIFICATION: *Erigeron sivinskii* is similar to *E. consimilis*, however, the stems, leaves, and phyllaries of *E. consimilis* are gray green; its stems are scapose, and its phyllaries are thickened along the margins (ARPC 2001).

ILLUSTRATIONS: B&W drawing (Lange 1995 in ARPC 2001, and <http://nmrareplants.unm.edu/drawings/erisiv.htm>)
Color photos of plant and habitat (Daniela Roth/NNHP in ARPC 2001)
Color photos of plant and habitat (P. Tonne in <http://nmrareplants.unm.edu/photoimages/collage/erisiv.htm>)
Color photos of plant and habitat (R. Sivinski in <http://nmrareplants.unm.edu/photoimages/collage/erisiv.htm>)

TOTAL RANGE: Narrow endemic to an area of about 104 square km in McKinley County, New Mexico and adjacent Arizona.

RANGE WITHIN ARIZONA: Carrizo Mountains, Northern Apache County.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Perennial forb/herb.

PHENOLOGY: Flowers from late May through June.

BIOLOGY:

HABITAT: “Steep, barren, shale slopes of the Chinle Formation, at 6,100-7,381 ft (1860-2250 m) elevation, in desertscrub and pinyon-juniper woodland communities” (ARPC 2001). NatureServe (2002) reports plants occurring in “Pinyon-juniper woodland on selenium bearing soils in Chinle Shale outcrops at 2225-2440 m elevation.”

ELEVATION: 6,100-7,381 ft (1860-2250 m). NatureServe (2002) reports elevation range of 7,295 – 8,000 ft (2225-2440 m). From 2 records in Arizona, elevation ranges from 5,800-5,900 ft (1769-1800 m) (unpublished data, Heritage Data Management, AGFD).

EXPOSURE:

SUBSTRATE: Restricted to Chinle Shale, on selenium bearing soils.

PLANT COMMUNITY: Desertscrub and pinyon-juniper woodland communities.

POPULATION HISTORY AND TRENDS: Locally abundant.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS:

STATE STATUS:

OTHER STATUS:

Group 4 (NNDFW, NESL 2005)
[Group 4 (NNFWD, NESL 2000)]

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: BIA – Navajo Nation.

SOURCES OF FURTHER INFORMATION

REFERENCES:

- Arizona Rare Plant Committee (ARPC). 2001. Arizona Rare Plant Field Guide. U.S. Printing Office.
- Integrated Taxonomic Information System (ITIS). Retrieved 1/22/2003 from ITIS, <http://www.itis.usda.gov>.
- Missouri Botanical Garden – TROPICOS, Nomenclatural Data Base. *Erigeron sivinskii* G.L. Nesom. <http://mobot.mobot.org/>. Accessed: 24 Jan 2003.
- NatureServe Explorer: An online encyclopedia of life [web application]. 2002. Version 1.6. Arlington, Virginia, USA: NatureServe. Available: <http://www.natureserve.org/explorer>. (Accessed: January 22, 2003).
- Navajo Nation, Fish and Wildlife Department. 2000. Navajo Endangered Species List.
- Navajo Nation Department of Fish and Wildlife. 2005. Navajo Endangered Species List. The Navajo Nation. Window Rock, Arizona. P. 3.
- Tonne, P. 1999. *Erigeron sivinskii* (Sivinski's fleabane). <http://nmrareplants.unm.edu/reports/erisiv.htm>.
- 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:

Revised: 2003-02-06 (SMS)

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