

ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

Element Code: PDAST170A0

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Berlandiera monocephala* (B.L. Turner) Pinkava

COMMON NAME: A Daisy

SYNONYMS: *Berlandiera lyrata* var. *monocephala* B.L. Turner

FAMILY: Asteraceae

AUTHOR, PLACE OF PUBLICATION: (B.L. Turner) Pinkava, Journal of the Arizona-Nevada Academy Science 36(1): 8. 2003.

TYPE LOCALITY: Yepachic, Chihuahua, Mexico, North America.

TYPE SPECIMEN: HT: TEX-287464. C.W. Pennington 1, 21 Jun 1970.

TAXONOMIC UNIQUENESS: One of two *Berlandiera* spp. in Arizona. *B. monocephala* was only recognized and elevated to species status in Arizona in 2003.

DESCRIPTION: Scapose perennial herb, with oblanceolate individual basal leaves and elongate scapes with whitish matted hairs, each bearing 1(-3) radiate heads with fresh disc corollas that are yellow and fresh ray corollas that are yellow with green abaxial veins. (Pinkava, 2003).

AIDS TO IDENTIFICATION: *Berlandiera monocephala* differs from *B. lyrata*, in that the later has wart-like (reddish and bulbous-based) trichomes, pinnatifid, and red to maroon abaxial veins of ray corollas. (Pinkava, 2003).

ILLUSTRATIONS:

Herbarium Mount (Holotype): <http://plants.jstor.org/specimen/tex00373760?s=t>

TOTAL RANGE: Southern Arizona, and Chihuahua and Sonora, Mexico.

RANGE WITHIN ARIZONA: Cochise Co.: Huachuca Peak. Pima Co.: Buenos Aires National Wildlife Refuge. Pima/Santa Cruz Co.: foothills of the Santa Rita Mountains. Santa Cruz Co.: Harshaw's Camp; Canelo Hills; Sonoita; and near Santa Cruz River, S of Sonoita and E of Patagonia. (Pinkava, 2003).

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Perennial herb.

PHENOLOGY: Flowering: May to October.

BIOLOGY:

HABITAT: In meadows and along streams, and in mesquite grasslands.

ELEVATION: Generally collected between 3,500-4,500 ft (1066-1373 m), but also collect on Huachuca Peak at 7620 ft (2324 m). (Pinkava, 2003).

EXPOSURE:

SUBSTRATE:

PLANT COMMUNITY: In grasslands, sometimes found with oak, pinyon and juniper.

POPULATION HISTORY AND TRENDS: Unknown. Considered critically imperiled in Arizona (S1).

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None

STATE STATUS: None

OTHER STATUS: None

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS: Surveys to determine current distribution.

LAND MANAGEMENT/OWNERSHIP: FWS – Buenos Aires National Wildlife Refuge

SOURCES OF FURTHER INFORMATION

REFERENCES:

Flora of North America, Vol. 21, pp. 84-85. Accessed 4/24/2013.
http://www.efloras.org/florataxon.aspx?flora_id=1&taxon_id=250066219.

International Plant Name Index (IPNI). <http://www.ipni.org/ipni/plantsearch>. Accessed: 6/15/2005.

Missouri Botanical Garden – TROPICOS, Nomenclatural Data Base. *Berlandiera monocephala* (B.L. Turner) Pinkava. <http://mobot.mobot.org/>. (Accessed: 24 April 2013).

NatureServe.

<http://www.natureserve.org/explorer/servlet/NatureServe?searchSciOrCommonName=berlandiera+monocephala&x=6&y=8>. Accessed 6/20/2013.

Pinkava, D.J. 2003. *Berlandiera monocephala* (Asteraceae) newly recognized for Arizona and the United States. *Journal of the Arizona-Nevada Academy of Science* 36(1): 8.

SEINet. Collections Search Result: <http://seinet.asu.edu/collections/list.jsp>. Accessed 6/19/2013.

MAJOR KNOWLEDGEABLE INDIVIDUALS:

Dr. Donald J. Pinkava - Professor Emeritus, Arizona State University, Tempe, Arizona.

ADDITIONAL INFORMATION: Roots of *B. monocephala* are sold in local Mexican drugstores for stomach and lung troubles, and for insect and snake bites.

Revised: 2005-06-30 (SMS)
2013-06-20 (BDT)

To the user of this abstract: you may use the entire abstract or any part of it. We do request, however, that if you make use of this abstract in plans, reports, publications, etc. that you credit the Arizona Game and Fish Department. Please use the following citation:

Arizona Game and Fish Department. 20XX (= **year of last revision as indicated at end of abstract**). X...X (= **taxon of animal or plant**). Unpublished abstract compiled and edited by the Heritage Data Management System, Arizona Game and Fish Department, Phoenix, AZ. X pp.