

**ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM**

Plant Abstract

Element Code: PDAST530R0

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Hymenoxys jamesii*
COMMON NAME: Jame's Rubberweed
SYNONYMS:
FAMILY: Asteraceae

AUTHOR, PLACE OF PUBLICATION: M.W. Bierner, Madroño 40(1): 38-46, f. 1. 1993.

TYPE LOCALITY: U.S.A. Arizona, Navajo County, Forest Road 504, road to Winslow from Heber, 5.9 miles northwest of highway 260, junction west of Heber.

TYPE SPECIMEN: HT: TEX. Bierner 91-87, 12 Aug 1991. IT: NY-180205, US-03241718.

TAXONOMIC UNIQUENESS: Species *jamesii* is 1 of 18 in the genus *Hymenoxys*.

DESCRIPTION: Herbaceous biennial are 3.5-11.4 dm (14-45 in) tall, excluding the root. NatureServe (2004) reports heights of mostly 4.3-7.7 dm (17-30 in). Stems usually 1, but sometimes 2-4. They are paniculately to corymbosely branched above, sulcate below becoming striate above, usually distinctly purple-red below becoming green above. Moderately to densely below, becoming sparsely to moderately pubescent above. Leaves are dotted with impressed glands, entire, and simple to pinnately or bipinnately divided into 3-9 linear segments. Basal leaves in a dense rosette, usually divided into 5-7 segments. Peduncles range 1.3-5.0 cm, strait, expanded apically. Numerous flower heads (usually 50-180) are subhemispheric to campanulate, excluding the rays. Involucral bracts in two morphologically distinct series; outer bracts usually 8 or 9 per head; inner bracts usually 10 \pm 2 per head. Ray florets carpellate, fertile, usually 8 per head; ligules yellow, 3-lobed, tube glabrous to sparsely pubescent. Disc florets hermaphroditic, fertile; corollas yellow with yellow lobes, 5-lobed, the lower one-fourth to one-third usually constricted into a narrower yellow-brown tube. Achenes narrowly obconic, densely pubescent with straight, forked, antrorse hairs, 1.6-2.1 x 0.4-0.7 mm. Pappus scales usually 5, obovate, apex acuminate into an acute point or short awn. (Bierner, 1993).

AIDS TO IDENTIFICATION:

ILLUSTRATIONS: Color photo of specimen (NYBG *in*

http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list?this_id=4389390)

Color photo of specimen (USNM *in*

<http://ravenel.si.edu/botany/types/fullRecords.cfm?myFamily=>)

TOTAL RANGE: Mogollon Plateau of eastern central Arizona.

RANGE WITHIN ARIZONA: Collected in Coconino, Gila, and Navajo counties.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Herbaceous biennial.

PHENOLOGY: Flowers July and August.

BIOLOGY:

HABITAT: General area is evergreen forest dominated by pines, especially Ponderosa pine (*Pinus ponderosa*).

ELEVATION: 5,370 - 7,500 ft (1638 - 2288 m).

EXPOSURE:

SUBSTRATE:

PLANT COMMUNITY: Pine dominated evergreen forest.

POPULATION HISTORY AND TRENDS: Unknown

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None

STATE STATUS: None

OTHER STATUS: None

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS: Studies to determine life history factors, population status, and distribution range need to be performed.

LAND MANAGEMENT/OWNERSHIP: USFS - Apache-Sitgreaves, Coconino, and Tonto National Forests; Private.

SOURCES OF FURTHER INFORMATION

REFERENCES:

- Bierner, M.W. 1993. *Hymenoxys jamesii* (Asteraceae: Heliantheae): A New Species from Arizona. *Madroño* 40(1): 38-46.
- Integrated Taxonomic Information System (ITIS). Retrieved 8/19/2004 from ITIS, <http://www.itis.usda.gov>.
- Missouri Botanical Garden – TROPICOS, Nomenclatural Data Base. *Hymenoxys jamesii* Bierner. http://mobot.mobot.org/cgi-bin/search_vast. Accessed: 2 Dec 2004.
- NatureServe. 2004. NatureServe Explorer: An online encyclopedia of life [web application]. Version 4.1. NatureServe, Arlington, Virginia. Available: <http://www.natureserve.org/explorer>. (Accessed: August 19, 2004, and December 2, 2004).
- SEINet. Collections Search Result. Accessed 12/2/2004 at <http://seinet.asu.edu/collections/list.jsp>.
- The New York Botanical Garden. NYBG Specimens Detailed Results. http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list. Accessed: 8/19/2004.
- U.S. National Herbarium Type Specimen Register (US). Accessed: 8/19/2004 from <http://ravenel.si.edu/botany/types/fullRecords.cfm?myFamily=>
- USDA, NRCS. 2004. 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: 2004-09-02 (AMS)
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