

ARIZONA GAME AND FISH DEPARTMENT  
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

Element Code: PDPGN08380

Data Sensitivity: No

**CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE**

**NAME:** *Eriogonum jonesii*

**COMMON NAME:** A Wild-Buckwheat, Jones' Buckwheat

**SYNONYMS:**

**FAMILY:** Polygonaceae

**AUTHOR, PLACE OF PUBLICATION:** S. Watson, Proc. Amer. Acad. Arts. 21: 454. 1886.

**TYPE LOCALITY:** For Isotype: Cosnino, near San Francisco Mts., probably Walnut Canyon, Coconino County, Arizona, USA.

**TYPE SPECIMEN:** HT:? IT: NY-323342, M. E. Jones 4050, Aug 11, 1884. Additional IT: GH-36687, US-106107.

**TAXONOMIC UNIQUENESS:** There are about 225 species in the genus *Eriogonum*, mainly in western North America; USDA, NRCS (2004) reports 221 species. Kearney and Peebles (1951) reports 57 species of *Eriogonum* in Arizona, while Lehr (1978) reports 65 species.

**DESCRIPTION:** Perennial shrub with a branched caudex, scapose or subscapose, with leaves basal or near the base; stems 8 to 25 cm (3-10 in) tall or more, tomentose. Leaf blades 10 to 25 mm long, broadly ovate or rounded, or obtuse at the tip, truncate or somewhat cordate at the base, densely tomentose below, less so above, the petiole often twice as long as the blade. The inflorescence is a many branched, compound cyme, the branches ascending-spreading; involucre about 2 mm long or less, much surpassing the minute bracts, tomentose; involucre white, glabrous.

**AIDS TO IDENTIFICATION:**

**ILLUSTRATIONS:** Color photo of Isotype collection (Jones *in*

[http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail\\_list?this\\_id=2981178](http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list?this_id=2981178))

Color photo of Isotype collection (Jones *in*

<http://ravenel.si.edu/botany/types//printImage.cfm?mypic=00106107.jpg>)

**TOTAL RANGE:** Coconino, Mohave, and Navajo counties in Arizona.

**RANGE WITHIN ARIZONA:** See "Total Range."

### **SPECIES BIOLOGY AND POPULATION TRENDS**

**GROWTH FORM:** Perennial shrub/subshrub.

**PHENOLOGY:** August and September.

**BIOLOGY:**

**HABITAT:** Woody shrubland, to woodland.

**ELEVATION:** 4,000 - 7,000 ft (1220-2135 m).

**EXPOSURE:** Slope SE to SW 30+/- %

**SUBSTRATE:** Red, rocky sandy loam; limestone outcrops.

**PLANT COMMUNITY:** Woodland with Pinón, Juniper, *Ceanothus*, *Rhus* (sumac), *Coleogyne* (blackbush), *Salvia* (sage), *Cowania* (= *Purshia*, bitterbrush), *Yucca* (Gierisch 1979, in SEINet). Johnson in 1994 (in SEINet), collected this species in Upland Navajo Desert Area with *Yucca angustissima* (fine-leaf yucca), *Haplopappus acradenius* (= *Isocoma acradenia* var. *acradenia*, alkali goldenbush), *Oryzopsis* (= *Achnatherum*) *hymenoides* (Indian ricegrass), *Cercocarpus montanus* (alderleaf mountain mahogany), and *Artemisia* spp. (sagebrush).

**POPULATION HISTORY AND TRENDS:** According to RK Gierisch, in October of 1979, this species was locally common in Hidden Canyon of Mohave County.

### **SPECIES PROTECTION AND CONSERVATION**

**ENDANGERED SPECIES ACT STATUS:** None

**STATE STATUS:** None

**OTHER STATUS:** None

**MANAGEMENT FACTORS:**

**PROTECTIVE MEASURES TAKEN:**

**SUGGESTED PROJECTS:** Periodically monitor known populations, and perform surveys to determine current range and population size.

**LAND MANAGEMENT/OWNERSHIP:** BLM - Arizona Strip Field Office; NPS - Wupatki National Monument; USFS - Kaibab National Forest. Possibly BIA – Navajo Nation.

## **SOURCES OF FURTHER INFORMATION**

### **REFERENCES:**

- Harvard University Herbaria (HUH). 2001. Index of Botanical Specimens. Accessed: 5/27/2004, from <http://brimsa.huh.harvard.edu/cms-wb/specimens>.
- Jones, M.E. 1884. Available: [http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail\\_list?this\\_id=2981178](http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list?this_id=2981178).
- Integrated Taxonomic Information System (ITIS). Retrieved 5/27/2004 from ITIS, <http://www.itis.usda.gov>.
- Kearney, T.H., R.H. Peebles with collaborators. 1951. Arizona flora. Second edition with supplement by J.T. Howell, E. McClintock and collaborators. 1960. University of California Press, Berkeley. P. 242.
- Lehr, J.H. 1978. A catalogue of the flora of Arizona. Desert Botanical Garden. Phoenix, Arizona. p.41.
- McDougal, W.B. 1973. Seed Plants of Northern Arizona. The Museum of Northern Arizona. Flagstaff, Arizona. Pp: 135.
- Missouri Botanical Garden – TROPICOS, Nomenclatural Data Base. *Eriogonum jonesii* S. Watson. [http://mobot.mobot.org/cgi-bin/search\\_vast](http://mobot.mobot.org/cgi-bin/search_vast). Accessed: 27 May 2004.
- NatureServe. 2004. NatureServe Explorer: An online encyclopedia of life [web application]. Version 3.1. NatureServe, Arlington, Virginia. Available <http://www.natureserve.org/explorer>. (Accessed: April 28, 2004).
- NAZ Flora. Available: <http://www.nazflora.org/Polygonaceae.htm>.
- SEINet. Collections search result. Accessed 5/27/2004 from <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](http://scisun.nybg.org:8890/searchdb/owa/wwwcatalog.detail_list). Accessed: 5/27/2004.
- U.S. National Herbarium Type Specimen Register (US). Accessed: 5/27/2004 from <http://rathbun.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.
- Watson, S. 1886. Proc. Amer. Acad. Arts. 21: 454.

### **MAJOR KNOWLEDGEABLE INDIVIDUALS:**

### **ADDITIONAL INFORMATION:**

**Revised:** 2004-04-09 (AMS)  
2004-07-08 (SMS)

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.