

**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: Jones's wild buckwheat, Jones's 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 250 species in the genus *Eriogonum*, mainly in western North America (Reveal 2005). 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://sweetgum.nybg.org/science/vh/specimen-details/?irn=217894>)

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-October.

BIOLOGY: As a fall-flowering buckwheat, it is a good source of food for insects, particularly honeybees (*Apis mellifera*) (Embrey et al. 2012).

HABITAT: Woody shrubland, to pinyon-juniper woodland.

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

EXPOSURE: Slope SE to SW 30+/- %

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

PLANT COMMUNITY: Woodland with Pinõn, Juniper, *Ceanothus*, *Rhus* (sumac), *Coleogyne* (blackbush), *Salvia* (sage), *Cowaniana* (=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). In its far western occurrences, this species grows in Joshua tree/blackbrush woodland (near Meadview, Arizona) (Embrey et al. 2012).

POPULATION HISTORY AND TRENDS: According to RK Gierisch, in October of 1979, this species was locally common in Hidden Canyon of Mohave County (in SEINet). Embrey et al. (2012) noted that this species was encountered in high numbers in areas that had been previously burned.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None

STATE STATUS: None

OTHER STATUS: None

MANAGEMENT FACTORS:

PROTECTIVE MEASURES TAKEN: In 2010, targeted surveys to locate additional localities were undertaken in Mohave County. These surveys expanded the westward

distribution of this species and encountered many new localities (Embrey et al. 2012). Adjacent Nevada was also surveyed, but no plants were found.

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:

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Plant Data Center, Baton Rouge, LA 70874-4490 USA.
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MAJOR KNOWLEDGEABLE INDIVIDUALS:

ADDITIONAL INFORMATION:

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