

ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM

Plant Abstract

Element Code: PDSCR06080

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Bacopa rotundifolia*
COMMON NAME: Roundleaf Water-hyssop, Disk Water-hyssop
SYNONYMS: *Monniera rotundifolia* (Basionym), *Herpestis rotundifolia*
FAMILY: Scrophulariaceae (Plantaginaceae)

AUTHOR, PLACE OF PUBLICATION: Wettstein, Richard von. Die Natürlichen Pflanzenfamilien IV. 3b: 76. 1891.

TYPE LOCALITY: Sandy muddy fresh tidal shore of Chickahominy River, Graves Landing, north of Holdcraft (Charles City, VA).

TYPE SPECIMEN: MO 503761. M. L. Fernald and B. Long #13749. Sept. 10, 1941. (Type).

TAXONOMIC UNIQUENESS: The genus *Bacopa* has seven species. Two of these, *B. monnieri* and *B. rotundifolia*, are found in Arizona.

DESCRIPTION: Fibrous-rooted perennial; stems succulent, branched, 1-4 dm (4-15.75 in.); distally-floating and spreading-hairy; leaves opposite, sessile, entire, palmately several-nerved, broadly rotund-obovate to suborbicular, 1-3 cm (0.4-1.2 in.) long, glabrous; pedicels stout, 0.5-2 cm (0.2-0.8 in.) long; sepals 3-5 mm (0.12-0.2 in.) long, the outer one broad, rotund-elliptic, the others much narrower; corolla white with yellow throat, narrowly-campanulate, 5-10 mm (0.2-0.4 in.) long, the lobes equalling, or a little shorter than the tube.

AIDS TO IDENTIFICATION: The combination of opposite, nearly circular leaves and small flowers with a united tube and 5 equal lobes separate this species from other mud flat or shallow aquatic herbs. A hand lens may be necessary for positive determination.

ILLUSTRATIONS:

Photos, Line drawings and herbarium mounts: <http://eol.org/pages/579133/media>.

TOTAL RANGE: Occurs primarily from Indiana to Minnesota and Montana, extends north to Saskatchewan, south to Mississippi and Texas, with disjunct populations in Idaho, California, Virginia, Maryland, northern Mexico, Paraguay, and Argentina.

RANGE WITHIN ARIZONA: Known from a single collection in the upper Sulphur Springs Valley, Graham County.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Fibrous-rooted perennial herb with branched, succulent stems.

PHENOLOGY: Flowers from May to August in California.

BIOLOGY:

HABITAT: Muddy places, in wet soil or rooted and floating in shallow water.

ELEVATION: 4425 feet (1350m) at only collection made in Arizona.

EXPOSURE: Not specified, presumed open.

SUBSTRATE: Moist or saturated soils.

PLANT COMMUNITY: Unspecified aquatic plant communities. Two plants noted from Arizona collection are *Sagittaria* and *Alsima*.

POPULATION HISTORY AND TRENDS: Unknown. *B. rotundifolia* is known in Arizona from only a single collection made in 1979.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS: None.

STATE STATUS: None.

OTHER STATUS: None.

MANAGEMENT FACTORS: None specified.

PROTECTIVE MEASURES TAKEN: None specified.

SUGGESTED PROJECTS: Verify if species is still extant at the original collection site.

LAND MANAGEMENT/OWNERSHIP: The single collection location in Arizona is from a private land holding in Graham County.

SOURCES OF FURTHER INFORMATION

REFERENCES:

- Encyclopedia of Life, accessed 5-07-2014, <http://eol.org/pages/579133/details>.
Jepson eFlora, accessed 5-07-2014, http://ucjeps.berkeley.edu/cgi-bin/get_IJM.pl?tid=15391.
JSTOR| Global Plants, accessed 5/07-2014,
<http://plants.jstor.org/specimen/mo-503761?s=t#close>.
NatureServe Explorer, an Encyclopedia of Life, accessed 5-07-2014,
<http://explorer.natureserve.org/servlet/NatureServe?searchSciOrCommonName=Bacopa+&x=13&y=11>.
Tropicos, accessed 5-07-2014, <http://www.tropicos.org/Name/29201606>.

MAJOR KNOWLEDGEABLE INDIVIDUALS:

ADDITIONAL INFORMATION: Native to the central and eastern U.S., considered naturalized in California, where it is often associated with rice cultivation (Jepson eFlora).

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