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Conserving South Carolina's At-Risk Species:

Species facing threats to their survival

Boykin's lobelia

(Lobelia boykinii)



Boykin's lobelia/Photo credit: Jerry Bright

Description

Boykin's lobelia is a perennial herb, 40-80 cm tall, with inconspicuous bract-like leaves. Flowers are blue with a white eye at the throat. It blooms mostly from May into August and flowering is apparently dependent on fluctuating water levels. It is distinguished from other species by its blue corolla with a tube 7 mm long or less; central stem leaves less than 0.5 mm wide, pedicels without bracteoles; subtending bracts present and plant perennial by rhizomes; leaves less than 1.0 mm wide or, to 0.8 mm wide.

Range

is known from the following counties: genotypes available for cross-pollination. Allendale, Bamberg, Barnwell, Berkeley, Also, inbreeding depression effects (e.g., Charleston, Chesterfield, Colleton, Florence, Hampton, Marion, typically more severe in small populations Orangeburg, Sumter, and Williamsburg of self-incompatible species, such as Counties.

Habitat

only seasonally very moist or inundated.

Status

G2 - Imperiled. The U.S. Fish and Wild- around populations of the plant. life Service was petitioned to list the species in April 2010 and published a substan- References tial 90-day finding in September 2011 in- Georgia Department of Natural Resources dicating listing may be warranted.

Threats

common in the southeast but are now lim- Colleton, Dorchester, Horry, and ited in number due to drainage for agri- Jasper Counties, South Carolina, Septemculture and development. In addition, ber, 1984. S.C. Wildlife and Marine Remany southeastern wetlands are threat- sources Department. ened by a drawdown in the regional water table, a result of intense development NatureServe. 2015. NatureServe Explorover the last 10-20 years. Lack of disturb- er: An online encyclopedia of life [web ance, leading to succession, is also a application]. Version 7.1. NatureServe, threat. Fire suppression and destruction Arlington, Virginia. Available http:// of wetland transition zones by road con- explorer.natureserve.org. struction and has also had an effect on the habitat. Pesticide spraying in fields near University of South Carolina A.C. Moore populations of Boykin's lobelia reduces Herbarium: http:// the number of insect pollinators necessary herbarium.biol.sc.edu/ The range of Boykin's lobelia is restricted for reproduction. It is also possible there to scattered populations in the southeast- has been a reduction in genetic diversity Contact ern Coastal Plain with a few disjunct oc- due to clonal growth and obligate out- U.S. Fish & Wildlife Service currences in New Jersey and Delaware. crossing breeding system. This type of South Carolina Field Office Approximately 70 occurrences are be-breeding system may limit seed produc- 843/727-4707 lieved extant, mostly in South Carolina tion in small populations, as small popula- april_punsalan@fws.gov

and Georgia. In South Carolina, the plant tions typically have a reduced number of Clarendon, lower seed set, reduced germination) are Boykin's lobelia.

Management/Protection Needs

Boykin's lobelia inhabits cypress-gum de- Protect depression wetlands from clearpressions or ponds, wet pine savannahs ing, draining, and filling. Protect natural and flatwoods. Some sites have continu- water table levels from excessive drawous, shallow standing water; others are down. Allow fires in adjacent uplands to periodically burn into and across wet-Avoid placing firebreaks in the transition zones between uplands and wet-NatureServe's Rounded Global Status is lands. Establish pesticide-free buffers

- Rare Plant Species Profiles: http:// georgiawildlife.com/speciesinfo/plants

The species' wetland habitats were once Inventory of Botanical Natural Areas in