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Conserving South Carolina's At-Risk Species:

Species facing threats to their survival

Harper's fimbristylis (Fimbristylis perpusilla)



Description

A small annual sedge reaching up to 8 cm life Service was petitioned to list the sper regular monitoring on established sites. tall (usually shorter), Harper's fimbristylis cies in April 2010 and in September 2011, Plants may not be visible at a pond for often forms tufts or mats. The leaves are published a substantial 90-day finding indi- years, then will re-appear when seasonal thread-like and have 3 prominent veins on cating listing may be warranted. Approxi- water fluctuations are favorable. Avoid the backside. The greenish-brown flower mately 55 occurrences are believed ex-draining or filling natural ponds. Allow spikelets (2-4 mm long) are borne on wiry tant, but only 24 of these have been ob- fires in surrounding uplands to burn across stalks; fruits are pitted and banana-shaped, served in the past 20 years. The South ponds. Avoid plowing fire lines or cutting 0.4-0.6 mm long. Flowering occurs in Carolina Department of Natural Re- roads around ponds. Exclude cattle from late summer with fruiting in the fall. The sources lists Harper's fimbristylis as a high natural ponds. Continue research, espesmall flowers of Harper's fimbristylis are priority species in the State Wildlife Ac- cially seed bank studies. wind-pollinated; seeds are probably dis- tion Plan. persed by waterfowl and small animals. The seeds can remain dormant for years until a dry year produces the muddy pond edges that it inhabits, creating the specific conditions for germination.

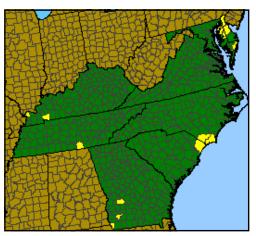
Range

Harper's fimbristylis is a regional endemic of the lower Coastal Plain from Delaware to Georgia with one disjunct site on the Cumberland Plateau in Tennessee. currences are sporadic, with highly variable year-to-year abundance at each site. known from Horry County.

Habitat for Harper's fimbristylis includes muddy shores and exposed bottoms of Threats

dried-up backwater sloughs. The plants draining, filling, and cattle trampling. are restricted to areas in ponds and rivers Fire suppression is also a threat. Logging, that are exposed, but not desiccated, dur- clearing or drainage for agriculture, and ing seasonal low-water periods. Many of other land-use conversion such as road these habitats are fragile and susceptible to construction have destroyed much of this hydrological disturbances. communities include flatwoods, pine bar- some sites. rens, cypress-gum forests, and moist/wet hardwood forests and woodlands.

Status



In South Carolina, the species is only Harper's fimbristylis (yellow counties - extant); Arlington, Virginia. Available http:// map generated from Kartesz, J.T. 2015. Floris- explorer.natureserve.org. tic Synthesis of North America, Version 1.0. Contact Biota of North America Program (BONAP).

limesinks, flatwoods, and farm ponds, One of the major threats to Harper's fim- april_punsalan@fws.gov

silty sandbars in blackwater rivers, and bristylis is the destruction of ponds by Surrounding species' habitat and continue to threaten

Management/Protection Needs

Increase survey efforts for the species. Surveys are best conducted during fruiting NatureServe's Rounded Global Status is (September-October) because mature G2 - Imperiled. The U.S. Fish and Wild-fruits are needed for identification. Begin

References

Georgia Department of Natural Resources - Rare Plant Species Profiles: http:// georgiawildlife.com/speciesinfo/plants

Kartesz, J.T., The Biota of North America Program (BONAP). 2015. North American Plant Atlas. (http://bonap.net/napa). Chapel Hill, N.C.

NatureServe. 2015. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe,

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