U.S. Fish & Wildlife Service

January 2017





www.fws.gov/charleston www.fws.gov/southeast/candidateconservation

Conserving South Carolina's **At-Risk Species:**

Species facing threats to their survival

Septima's clubtail

(Gomphus septima)



Septima's clubtail/Photo credit: Will Cook

Description

The Septima's clubtail is a medium sized Researchers in NC indicate the species is riparian forest cover. Forestry operations dull green and brown dragonfly with near-clearly on the increase in the state, and is should follow best-management practices ly absent lateral thoracic stripes, no black now one of the more readily found for water quality. Outreach and educafacial stripes, and a small abdominal club clubtails along the larger rivers in the east-tion to developers and local governments which has small pale lateral spots. Larvae ern third of the Piedmont. of the species are undescribed. The flight period has moved forward by a week to 10 days over the past decade, once being quite rare before very late April. Now the flight period is mid-April to the end of May, and sparingly to mid-June - with peak during the first half of May. Males perch on the ground near rivers, but they also perch on rocks in the rivers.

Range

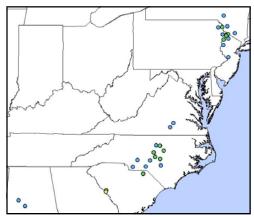
The species has a disjunct range, occurring in a narrow northeast-southwest band Septima's clubtail occurrences - accepted and from southern NY through central NC, pending (yellow dots) and sparingly southwest to central AL. Known from approximately 16 rivers Threats ties.

Habitat

Adults forage from the ground or trees.

Status

petitioned to list the species in April 2010 associated with agricultural practices, and published a substantial 90-day finding commercial and residential developments in September 2011 indicating listing may that result in sedimentation, bank destabibe warranted. Despite being uncommon lization and potential degradation of water and widespread with a rather limited quality from pesticide and fertilizer runrange, documented occurrences have been off. increasing in the past few years. Until about 15 years ago, the species was appar- Management/Protection Needs ently only known from NC and AL and Incentive programs to help farmers implewas one of the rarest dragonflies in the ment best-management practices could eastern United States. It has since been improve instream habitat by decreasing found far to the north in NY, PA, and NJ. sedimentation and runoff and increasing



MD, and GA. In SC, the species is known vironments. Depending on species, an Arlington, Virginia. Available http:// from Chesterfield and McCormick Coun- individual dragonfly may spend months to explorer.natureserve.org. years in the aquatic larval or nymph stage, South Carolina Department of Natural and only a few weeks as a flying adult. Resources—State Wildlife Action Plan: Many of the 154 species of dragonflies 2010-2015. Septima's clubtail breeds in clean, high-found in SC have specific habitat require- Contact quality, fast rivers and very large streams ments, and changes in the condition of U.S. Fish & Wildlife Service that are well oxygenated but not too cold. rivers, streams, ponds and swamps will South Carolina Field Office likely affect the assemblages. In that way, 843/727-4707 dragonflies can indicate the integrity of christopher_hernandez@fws.gov

freshwater habitats. Threats to the integ-The U.S. Fish and Wildlife Service was rity of those habitats include alterations

will assist with sharing information about minimizing the impacts from new home construction and commercial developments. There is also a need for additional surveys to document new populations and for periodic monitoring of known populations.

References

Abbott, J.C. 2006-2017. OdonataCentral: An online resource for the distribution and identification of Odonata. Available at http://www.odonatacentral.org. Dragonflies and Damselflies of North Carolina—Seventh Approximation; March 2016

NatureServe. 2015. NatureServe Explorer: An online encyclopedia of life [web (most in NC) it is absent so far from DE, Dragonflies are closely tied to aquatic en- application]. Version 7.1. NatureServe,