U.S. Fish & Wildlife Service





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

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

Species facing threats to their survival

Edmund's snaketail

(Ophiogomphus edmundo)



Female Edmund's snaketail

Description

eyes are blue-green to green, and the face much of their lives in the treetops. is green. The legs are mostly black, but often have a very small yellow or pale area **Status** near the base of the thigh. The abdomen Currently known from four rivers and for periodic monitoring of known populais very dark brown, with yellow dorsal streams in eastern Tennessee, adjacent tions. markings on all segments that shorten pos- areas of North Carolina, and Georgia, the teriorly and are usually only represented Edmund's snaketail is considered critically References as a spot on segments 8 - 9. Lateral yel- imperiled in those states but is not ranked Beaton, G. 2007. Dragonflies and damsellow markings of the male are present on in South Carolina. The U.S. Fish and flies of Georgia and the southeast. Universegments 1 - 3, absent on segments 4 - 6, Wildlife Service was petitioned to list the sity of Georgia Press, Athens. 368 pp. small on segment 7, becoming large spots species in April 2010 and published a subon the edge of segments 8 - 9, and most of stantial 90-day finding in September 2011 NatureServe. 2015. NatureServe Explorsegment 10. The female is similar but the indicating listing may be warranted. abdomen is thicker, with yellow lateral markings on every segment, but smaller Threats on segments 7 - 9 than on male. The club Dragonflies are closely tied to aquatic enabsent in females.

Range

olina) really only represent single popula- to the integrity of those habitats include tions. This species was thought extinct in alterations associated with agricultural the 1970s and 1980s, but was rediscov- practices, commercial and residential deered in North Carolina in 1994. Surveys velopment that result in sedimentation, during 2006-2008 documented healthy bank destabilization and potential degradaes of both the upper Conasauga and upper fertilizer runoff. Chattooga Rivers. The Chattooga, a designated National Wild and Scenic River, Management/Protection Needs supports a healthy population of Ed- Incentive programs to help farmers implemund's snaketail and other rare Odonate ment best-management practices could species.

Habitat

The Edmund's snaketail is a rare, green Larvae are found in medium- to large- should follow best-management practices snaketail of the southern Blue Ridge. sized, clear streams and rivers with mod- for water quality. Outreach and educa-Adults are typically 44 - 48 mm (1³/₄ -1⁷/₈ erately fast currents. Adult males are tion to developers and local governments inches) in total length with a bright green found mostly on rocks in riffles or rapids will assist with sharing information about thorax and two lateral brown stripes. The while territorial, but appear to spend minimizing the impacts from new home

-shaped tip on the abdomen is virtually vironments. Depending on species, an individual dragonfly may spend months to South Carolina Department of Natural years in the aquatic larval, or nymph, Resources-State Wildlife Action Plan: stage, and only a few weeks as a flying 2010-2015. This species is restricted to the southern adult. Many of the 154 species of dragon-Blue Ridge of North Carolina, Tennessee, flies found in South Carolina have specific Contact South Carolina, and Georgia, where it is habitat requirements, and changes in the U.S. Fish & Wildlife Service known from only eight counties. Two of condition of rivers, streams, ponds and South Carolina Field Office the adjacent county pairs (Murray in swamps will likely affect the assemblages. 843/727-4707 Georgia and Polk in Tennessee; and Ra- In that way, dragonflies can indicate the christopher_hernandez@fws.gov

bun in Georgia and Oconee in South Car- integrity of freshwater habitats. Threats populations occurring within long stretch- tion of water quality from pesticide and

improve instream habitat by decreasing sedimentation and runoff and increasing riparian forest cover. Forestry operations construction and commercial developments. There is also a need for additional surveys to document new populations and

er: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available http:// explorer.natureserve.org.