

A New Record for Cicindela scabrosa (Coleoptera: Carabidae: Cicindelinae) from Hardee County, Florida

Author: Mosley, Jackson

Source: Florida Entomologist, 92(3): 516-517

Published By: Florida Entomological Society

URL: https://doi.org/10.1653/024.092.0319

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

A NEW RECORD FOR CICINDELA SCABROSA (COLEOPTERA: CARABIDAE: CICINDELINAE) FROM HARDEE COUNTY, FLORIDA

JACKSON MOSLEY

Paynes Creek Historic State Park 888 Lake Branch Rd, Bowling Green, FL 33834

The Florida Scrub Tiger Beetle Cicindela scabrosa Schaupp, a species precinctive to Florida, has not previously been recorded from Hardee County, Florida. Cicindela scabrosa is known from Alachua, Brevard, Broward, Dade, Highlands, Indian River, Levy, Orange, Polk, Putman, St. Johns, Taylor, and Volusia counties (Peck & Thomas, 1998). Cicindela scabrosa, once considered a variety of Cicindela abdominalis Fabricius. was raised to species rank by Choate (1984). The 2 species are generally similar in appearance, but may be separated (Choate 1984) by the presence in C. scabrosa of white apical lunule markings with small medial white marks and heavily punctured elytra, flattened white hairs on the underside of the abdomen and numerous conspicuous white hairs on sides of the pronotum (Fig. 1).

Cicindela scabrosa was first recorded in Hardee County in 2004 at Paynes Creek Historic State Park located in Bowling Green, FL. Paynes Creek Historic State Park is a 410-acre state park of historic significance that first opened to the public in 1981. The park contains several distinct natural plant communities, including small, isolated patches of scrub, scrubby flatwoods, and pine flatwoods. The park's resource management

goals involve the use of prescribed fire in 3- to 5-year intervals and annual treatment plans to reduce the occurrence invasive exotic plant species. The park maintains a system of foot trails, fire lanes, and services roads that meander throughout the park providing general access and assist with resource management needs.

These access routes serve as ideal sites to monitor and record the presence of tiger beetle species in the park. In May 2004, monthly monitoring surveys were initiated to establish the occurrence and range of tiger beetle species within the park boundaries. The park's current *Cicindela* fauna includes 5 species (Table 1). *Cicindela scabrosa* is restricted to a single sandy trail through scrubby flatwoods and pine flatwoods habitat. A summer species, *C. scabrosa* is active May-Sep, and shares its range with *C. hirtilabris* and *C. punctulata*. Voucher specimens of *C. scabrosa* are at Paynes Creek Historic State Park.

SUMMARY

Cicindela scabrosa is reported here for the first time at Paynes Creek Historic State Park. Efforts have been initiated to minimize distur-



Fig. 1. Pinned specimen of *Cicindela scabrosa* Schaupp showing characteristic white apical lunule markings and white hairs on pronotun and abdomen (note arrows).

TABLE 1. CICINDELA SPECIES FOUND IN PAYNES CREEK PARK AND THEIR HABITAT.

Cicindela Species from Paynes Creek	Habitat preference in park
Cicindela hirtilabris LeConte	Scrub and Scrubby Flatwoods
Cicindela punctulata Olivier	On trails of most habitats
Cicindela scabrosa Schaupp	Scrubby Flatwoods
Cicindela scutellaris unicolor Dejean	Scrub and Scrubby Flatwoods
Cicindela trifasciata ascendens LeConte	Mud flats near river and creek

bance in the area where *C. scabrosa* populations occur. Fire lanes and foot trails adjacent to current *C. scabrosa* habitat will be managed with the goal of making them suitable for *C. scabrosa*. According to Deyrup & Franz (1994), *C. scabrosa* populations are mostly small and isolated throughout its range. This seems consistent with the present distribution of *C. scabrosa* in Paynes Creek Historic State Park. Observations during 2008 revealed the presence of *C. scabrosa* in the park, in which the population range remains isolated to 1 area of the park.

REFERENCES CITED

- CHOATE, P. M., JR. 2003. Tiger Beetles: A Field Guide and Identification Manual for Florida and Eastern U.S. University Press of Florida, Gainesville, FL. pp. 91-92.
- CHOATE, P. M., JR. 1984. A new species of *Cicindela* Linnaeus (Coleoptera: Cicindelidae) from Florida, and elevation of *C. abdominalis scabrosa* Schaupp to species level. Entomol. News 95: 73-82
- DEYRUP, MARK, AND FRANZ, R. 1994. Rare and Endangered Biota of Florida. University Press of Florida, Gainesville, FL. pp. 366-368.
- PECK, S. B., AND THOMAS, M. C. 1998. A Distributional Checklist of the Beetles (Coleoptera) of Florida. Arthropods of Florida and Neighboring Land Areas. Volume 16. Florida Dept. Agric. and Consumer Services, Div. Plant Industry, Gainesville. viii + 180 pp.