

## BRIEF NOTE

ADDITIONS TO STATE AND LOCAL LISTS OF DRAGONFLIES AND DAMSELFLIES (ODONATA)<sup>1</sup>

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A small but viable colony of *Ophiogomphus carolus* was discovered on Swine Creek, a clean, swift-flowing tributary to the Grand River, located in eastern Geauga County. This represents a new record for Ohio. Other states in which *O. carolus* has been collected are: Maine, Michigan, New Hampshire, New York, Pennsylvania, Vermont, Virginia, West Virginia, and Wisconsin (Carle 1981).

A total of 8 adult males of *O. carolus* was taken on 22 and 25 June 1980, and on 6 June 1981. No females and no nymphs were found, but one mating pair was observed flying up into vegetation bordering the stream. Mrs. Leonora Gloyd confirmed our find; 2 specimens were donated to the University of Michigan Museum of Zoology. We thank Mrs. Gloyd for her help.

The portion of Swine Creek examined averages from 2 to 3 m in width; greatest depth observed was about 0.66 m. The bottom is sand and silt interspersed with small rocks. Chemical data, taken with a LaMotte Test Kit (in parts per million) for the water are: calcium 130, magnesium 120, dissolved oxygen 13.5, silica 5, nitrate 0.88, carbon dioxide 0, and phosphate 0. The pH was 8.5. Other dragonflies associated with *O. carolus* were: *Boyeria vinosa*, *Cordulegaster maculatus*, *Lanthus albistylus*, and numerous *Gomphus lividus*.

The finding of *O. carolus* adds another species to the fauna of the Grand River system (Perry 1981). Also taken in Grand River territory were specimens of

*Enallagma hageni* and *Lestes dryas*, in 1979 and 1980. These 3, added to the original list of 77 species, result in a total of 80 (46 dragonflies, 34 damselflies).

At the Holden Arboretum in Lake and Geauga counties we originally took a total of 51 species (Perry 1975); to this list we have added 9 additional species. New species for Holden include: *Boyeria grafiana*, *Boyeria vinosa* (first listed as *Boyeria* species), *Somatochlora tenebrosa*, *Libellula quadrimaculata*, *Chromagrion conditum*, *Enallagma basidens*, *Enallagma boreale*, *Lestes congener*, *Lestes disjunctus*, and *Lestes forcipatus*. The Holden list of Odonata now stands at 60 (34 dragonflies, 26 damselflies), a large number for an area of about 2500 acres. Major dragonfly habitats at Holden consist mainly of small artificial lakes and ponds.

Northeastern Ohio (counties of Ashland, Ashtabula, Columbiana, Cuyahoga, Erie, Geauga, Huron, Lake, Lorain, Mahoning, Medina, Portage, Richland, Stark, Summit, Trumbull, Wayne, plus the Lake Erie islands) is indeed rich in the Odonata. Number of species taken in northeastern Ohio to date is 118.

## LITERATURE CITED

- Carle, F. L. 1981 A new species of *Ophiogomphus* from eastern North America, with a key to the regional species (Anisoptera: Gomphidae). *Odonatologica* 10: 272-278.
- Perry, T. E. 1975 The dragonflies and damselflies (Odonata) of the Holden Arboretum, Lake and Geauga Counties Ohio. *Ohio J. Sci.* 75: 14-18.
- \_\_\_\_\_ 1981 Dragonflies and damselflies (Odonata) of the Grand River system, northeastern Ohio 1974-1978. *Ohio J. Sci.* 81: 125-131.

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