

BRIEF NOTE

NEW DRAGONFLY (ODONATA) RECORDS FOR TUSCARAWAS COUNTY, INCLUDING A SPECIES NEW TO OHIO¹

JOSEPH K. BALCIUNAS, University of Florida, Aquatic Plant Management Laboratory, 3205 SW 70 Avenue, Fort Lauderdale, FL 33314

OHIO J. SCI. 80(2): 58, 1980

During the summer of 1970, I collected Odonata nymphs at 212 sites in the streams and rivers of Tuscarawas County in north-central Ohio. The location and a description of these sites along with an annotated list of all the species collected can be found in my thesis (Balciunas 1972). Previous collectors (Borror 1937, 1938; Alrutz 1961) had recorded only 23 species of Odonata from Tuscarawas County. My survey, while restricted to dragonfly nymphs in lotic habitats, resulted in 25 odonate species, 17 of which were new county records, and one that was new to Ohio. Almost 80% of the 1304 specimens collected during this survey belong to just 5 species: *Calopteryx maculata* Beauvois, 40% of my specimens; *Aeshna umbrosa* Walker, 13%; *Boyeria vinosa* (Say), 13%; *Enallagma antennatum* (Say), 7%; *Argia violacea* (Hagen), 6%. None of these 5 species had been previously recorded from Tuscarawas County. The following 12 species, none of which were common, were also new county records: *Gomphus lividus* Selys, *Stylogomphus albistylus* (Hagen), *Lanthus parvulus* (Selys), *Cordulegaster maculata* Selys, *Cordulegaster obliqua* (Say), *Neurocordulia yamaskanensis* (Provancher), *Somaiochlora linearis* (Hagen), *Libellula quadrimaculata* L., *Sympetrum obtrusum* (Hagen), *Chromagrion conditum* (Hagen), *Enallagma signatum* (Hagen), *Ischnura posita* (Hagen).

Lanthus parvulus had not yet been re-

corded from Ohio, although it had been collected in 9 of the 22 western counties of Pennsylvania (Ahrens *et al* 1968) and in Kentucky (Needham and Westfall 1955). A single nymph of *L. parvulus* was collected in Warwick township in a tiny (0.3 m wide, 0-15 cm deep) stream almost overgrown by grass, with a bottom composed of crushed-rock spoil from an old strip-mine operation. This collection brings the number of species of Odonata now known from Ohio to 152.

Acknowledgments. I would like to express my gratitude to Dr. Minter J. Westfall, Jr. for verifying my identifications of the Odonata nymphs and for his suggestions concerning the manuscript. I would also like to acknowledge the help of my advisor, Dr. Edwin Skoch, in gaining partial funding for this study.

LITERATURE CITED

- Ahrens, Carsten and G. H. and A. F. Beatty 1968 A survey of Odonata of western Pennsylvania. Pennsylvania Acad. Sci. Proc. 42: 103-109.
- Alrutz, Robert W. 1961 Notes and records of Ohio dragonflies and damselflies. Ohio J. Sci. 61(1): 13-24.
- Balciunas, Joseph K. 1972 The lotic naiads of Odonata in Tuscarawas County, Ohio. Unpubl. M.S. Thesis. John Carroll Univ., Cleveland. 57 pp.
- Borror, Donald J. 1937 An annotated list of dragonflies (Odonata) of Ohio. Ohio J. Sci. 37(3): 185-196.
- 1938 Additions to the Ohio list of dragonflies (Odonata). Ohio J. Sci. 38(6): 307-310.
- Needham, J. G. and Minter J. Westfall, Jr. 1955 A manual of the dragonflies of North America (Anisoptera), including the Greater Antilles and the Provinces of the Mexican Border. University of California Press, Berkeley. 615 pp.

¹Manuscript received 30 January 1979 (#79-7).