

ADDITIONS TO THE LIST OF ODONATA FROM TENNESSEE

JAMES T. GOODWIN¹

Department of Zoology and Entomology,
The University of Tennessee,
Knoxville, Tennessee

As of 1960, there were 106 species of Odonata recorded from Tennessee. This figure is based upon the following literature. The late Mike Wright (Kormondy 1955) recorded 50 Anisoptera and 25 Zygoptera from Tennessee in his review of literature (Wright 1938a). Subsequent papers by Wright (1938b and 1943), Wright and Shoup (1945), Wright (1946a and 1946b) and Cook (1947) increased the list to 63 Anisoptera and 29 Zygoptera. Kormondy (1957) added 13 new species records and removed *Enallagma pollutum* (Hagen) from the list as being the same as *E. vesperum* Calvert. Kormondy (1960) added two additional species to the list bringing it to a total of 106 species which included 75 Anisoptera and 31 Zygoptera.

Trogdon (1961) in his unpublished dissertation listed 120 species which included 83 Anisoptera and 37 Zygoptera, although he did not include the two Anisoptera added by Kormondy in 1960. Therefore, the records of Trogdon and the author now bring the total Odonata fauna to 127 species which includes 90 Anisoptera and 37 Zygoptera. Following is an alphabetical list of the records of Trogdon and the author. The locals and dates of collection follow each species name. All records are based upon adult specimens except *Ophiogomphus mainensis* Packard which is based upon a series of nymphs collected in 1965.

ANISOPTERA

Aeschnidae

- Anax longipes* Hagen: Blount, Cocke, Dyer, Knox, Weakley; 24 June - 14 August.
Gomphiaeschna antilope Hagen: Sevier; mid-May.

Gomphidae

- Gomphus exilis* Selys: Cumberland, Henry; 11 - 14 May.
Gomphus submedianus Williamson: Henry, Obion; 2 - 11 June.
Gomphus ventricosus Walsh: Sullivan; 9 June.
Gomphus villosipes Selys: Coffee, Cumberland, Morgan, Overton; 14 - 20 June.
Gomphus viridifrons Hine: Blount; 21 May.
Ophiogomphus mainensis Packard: Polk; based upon several nymphal collections.

Libellulidae

- Macromia alleghaniensis* Williamson: Green, Hawkins, Monroe, Sevier; 27 June - 25 August.
Epicordulia regina Hagen: Knox; 20 May.
Tetragoneuria williamsoni Muttikowski: Henry; 11 June.
Celithemis fasciata Kirby: Blount, Knox, Monroe; 31 May - 11 August.
Celithemis monomolaena Williamson: Haywood, Henry, Knox; 21 May - 11 June.
Erythrodiplax minuscula (Rambur): Johnson, Monroe; 19 - 20 August.
Ladona deplanata (Rambur): Knox; 17 April - 2 May.
Ladona exusta Say: Knox; 29 May.

Agrionidae

- Calopteryx dimidiata* Burmeister: Monroe; 27 - 28 June.
Calopteryx amata Hagen: Blount; 6 - 20 August.

Coenagrionidae

- Argia bipunctulata* (Hagen): Carroll, Claiborne, Dickson, Jackson; 2 June - 19 August.
Amphiargion saucium (Burmeister): Blount, Claiborne, Hawkins, Johnson, Knox, Sullivan; 29 April - 25 August.
Enallagma divagans Selys: Cocke; 17 June.
Enallagma traviatum Selys: Blount, Campbell, Coffee, Cumberland, Dickson, Jackson, Jefferson, Johnson, Overton; 3 June - 19 August.

ZYGOPTERA

Of the above species, *Gomphiaeschna antilope* Hagen, has not been verified by anyone other than the author. The following four pairs of species require additional comment: 1) *Celithemis fasciata* Kirby & *C. monomolaena* Williamson, 2) *Epicordulia princeps* Hagen & *E. regina* Hagen, (3) *Ladona deplanata* Rambur & *L. exusta* Say, (4) *Tetragoneuria cynosura* Say & *T. williamsoni* Muttikowski. Specimens have been assigned readily to both species of each pair but intermediates which can not be readily assigned to one or the other species have been found. As this condition has occurred in other areas, it may be found that each pair is in reality a single species with extreme north-south variation in wing infuscation which is the character upon which species separations are made. The author wishes to thank Dr. M. J. Westfall, Jr., Biology Department, University of Florida, Gainesville, for confirming identifications; also Dr. David A. Etnier, Department of Zoology and Entomology, University of Tennessee, Knoxville, for furnishing some of the specimens upon which the records in this paper are based.

LITERATURE CITED

- Cook, C., 1947. Notes on the genus *Somatochlora* collected in Kentucky and Tennessee. (Odonata: Cordulinae). Ent. News, 58: 127-131.
Kormondy, E. J., 1955. In Memorium, Mike Wright, 1914-1953. Jour. Tenn. Acad. Sci., 30: 193-194.
———, 1957. New Knowledge of the Odonata of Tennessee. Jour. Tenn. Acad. Sci., 32: 106-115.
———, 1960. New North American records of Anisopterous Odonata. Ent. News, 71: 121-130.
Trogdon, R. P., 1961. A survey of the adult Odonata of Tennessee. Unpublished Dissertation — University of Tennessee.
Wright, Mike, 1938a. A review of the literature on the Odonata of Tennessee. Jour. Tenn. Acad. Sci., 13: 26-33.
———, 1938b. Notes on the dragonflies of Reelfoot Lake, Tennessee. Jour. Tenn. Acad. Sci., 13: 104-108.
———, 1943. Additions to the list of Odonata from Tennessee. Jour. Tenn. Acad. Sci., 18: 211-212.
———, 1946a. Dragonflies collected in Central Tennessee during 1945. Jour. Tenn. Acad. Sci., 21: 268-280.
———, 1946b. Notes on nymphs of the dragonfly genus *Helocordulia uhleri* Needham. Ohio Jour. Sci., 46: 337-339.
——— and C. S. Shoup, 1945. Dragonfly nymphs from the Obey River drainage and adjacent streams in Tennessee. Jour. Tenn. Acad. Sci., 20: 266-278.

¹ Present address: Biology Dept. Memphis States University, Memphis, Tenn. 38111.