

**FOUR NEW DRAGONFLY RECORDS IN  
ILLINOIS: CORDULEGASTER DIASTATOPS  
(Selys), ERYTHRODIPLAX CONNATA  
MINUSCULA (Rambur), CELITHEMIS  
VERNA Pritchard, CELITHEMIS  
MONOMELAENA Williamson (ODONATA:  
CORDULEGASTRIDAE, LIBELLULIDAE)**

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**ABSTRACT**

Four dragonfly species representing new Illinois records were discovered in the entomology collection at the Illinois State Natural History Survey in Champaign, Illinois. *Cordulegaster diastatops* (Selys), *Erythrodiplax connata minuscula* (Rambur), *Celithemis verna* Pritchard, and *Celithemis monomelaena* Williamson were represented by single adults.

**INTRODUCTION AND METHODS**

A recent examination of the Anisoptera in the entomology collection at the Illinois State Natural History Survey in Champaign, Illinois revealed specimens of four species collected, but unreported for Illinois.

The following specimens were examined, measured, and identified or confirmed by the authors using keys in Carle (1983), Needham and Westfall (1955), Walker (1958), and Walker and Corbet (1975). Measurements of total length and abdomen include caudal appendages or ovipositor.

## NEW RECORDS

1. *Cordulegaster diastatops* (Selys)  
 LABEL DATA: Algonquin, McHenry Co., Illinois; June 25, 1904; collected by W.A. Nason; female; determined by William J. Webb, 1985.  
 MEASUREMENTS: Total length, 62.5 mm; abdomen, 46.5 mm; hind wing, 42 mm.  
 COMMENTS: This species is generally distributed throughout the north-eastern United States and southeastern Canada according to Carle (1983).
2. *Erythrodiplax connata minuscula* (Rambur)  
 LABEL DATA: Champaign, Champaign Co., Illinois; September 1, 1957; in a garden at 510 S. State Street; collected by Roger S. Gloyd; male; determined by Leonora K. Gloyd, 1957.  
 MEASUREMENTS: Total length, 27 mm; abdomen, 17 mm; hind wing, 19.5 mm.  
 COMMENTS: Bordering states with records of this species are Indiana and Kentucky (Montgomery, 1967).
3. *Celithemis verna* Pritchard  
 LABEL DATA: Ridge Lake, Fox Ridge State Park, Coles Co., Illinois; June 26, 1964; collected by George W. Bennett; male; determined by Leonora K. Gloyd, 1964.  
 MEASUREMENTS: Total length, 36.5 mm; abdomen, 24 mm; hind wing, 26.5 mm.  
 COMMENTS: With the collection data was the following observation: "Several seen between 9 and 10:00 am but none in the pm." Needham and Westfall (1955) recorded this species for Kentucky and noted that this species is ". . . difficult to capture, for it kept well out from land near the outer fringe of shore vegetation and was very alert and active." Montgomery (1967) records this species for Indiana and Kentucky. Vogt and McPherson (1985) report its presence in Missouri.
4. *Celithemis monomelaena* Williamson  
 LABEL DATA: Ridge Lake, Fox Ridge State Park, Coles Co., Illinois; July 1, 1965; collected by George W. Bennett and H.W. Adkins; male; determined by Leonora K. Gloyd, 1965.  
 MEASUREMENTS: Total length, 35 mm; abdomen, 23.5 mm; hind wing with tips missing, approximately 29 mm (estimated).  
 COMMENTS: S.W. Dunkle (pers. comm.) in Vogt and McPherson (1985) mentions the possibility that this species is conspecific with *C. fasciata* Kirby which has been reported for Illinois (Vogt and McPherson, 1985). However, the taxonomic status of *C. monomelaena* is unresolved at this writing. Gloyd noted with the collection data that this specimen was a state record. Bordering states with records of this species are Wisconsin, Indiana, and Missouri (Montgomery, 1967).

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