

SCIENTIFIC NOTE

**NOTABLE RECORDS OF EPHEMEROPTERA
(BAETIDAE, LEPTOPHLEBIIDAE, METRETOPODIDAE)
FROM INDIANA, U.S.A.¹**Luke M. Jacobus² and W. P. McCafferty²

We present new records for three Ephemeroptera species recently collected from the state of Indiana. First state records are presented for two species (*), and one species is reported for the first time in over 50 years (†). All material is deposited in the Purdue University Entomological Research Collection, West Lafayette, Indiana, USA.

Baetidae*** *Plauditus gloveri* McCafferty and Waltz**

Material Examined. Bartholomew Co., White Cr., approx. 4 mi. east of Waymansville, private farm crossing south of Co. Rd. 930 S., 39°03'03"N, 85°58'02"W, 5-V-2004, LM Jacobus, two larvae.

Remarks. This small and apparently often overlooked species has been reported only relatively recently from Manitoba, Montana, New York, Saskatchewan, South Carolina, and Texas (McCafferty and Waltz 1998, Jacobus and McCafferty 2001, McCafferty and Jacobus 2001, McCafferty et al., 2004, Webb et al., 2004). It remains known only from the larval stage. Other baetid species seldomly reported from the USA Midwest, such as *Centroptilum bifurcatum* McDunnough, have been collected from White Creek (McCafferty et al., 2004).

Leptophlebiidae**† *Paraleptophlebia sticta* Burks**

Material examined. Bartholomew Co., White Cr., approx. 4 mi. east of Waymansville, private farm crossing south of Co. Rd. 930 S., 39°03'03"N, 85°58'02"W, 29-IV-2000, LM Jacobus, three male adults.

Remarks. This is the first report of *P. sticta* since its original description (Burks 1953). The type material still exists in the Illinois Natural History Survey Insect Collection (INHS) (Webb 1980; Ed Dewalt, pers. comm.). The species is known only from southern Indiana and central Illinois, and the larva remains unknown. Although our data confirm the species is not extinct, we suggest that the present global environmental ranking of the species should be retained at G1G3 (NatureServe 2003), because the species is known from so few populations within a limited range of distribution. The specimens reported here were

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collected swarming over debris in the stream at midday. At the collection site, White Creek flows through private property composed of woodlands and land cultivated for farming. Other *Paraleptophlebia* Lestage species collected from this stream include *P. jeanae* Berner, *P. ontario* (McDunnough), and *P. prae-pedita* (Eaton). The identification of each of these latter three species was confirmed by rearing.

Metretopodidae

* *Siphloplecton basale* (Walker)

Material examined. Fulton Co., Tippecanoe R. at Talma, opposite IN25, 41°09'12"N, 86°08'22"W, 13-III-2005, RE DeWalt [2005–010], three larvae.

Remarks. Burks (1953) reported *S. basale* from Indiana, and Jackson (1997) subsequently listed it as state endangered. However, Burks' (1953) anecdotal report cannot be considered as an actual Indiana record (sensu McCafferty 2000), because no data were given. Furthermore, the report cannot be verified, because no specimens of this species have been located in the INHS (Favret and DeWalt 2002; Ed DeWalt, pers. comm.), where B. D. Burks deposited his material. The new record above shows that *S. basale* exists in at least one drainage in north-central Indiana, and this record extends the Midwestern range of *S. basale* southward from Wisconsin and Michigan, where it is relatively common (Berner 1978, Randolph and McCafferty 1998). *Siphloplecton interlineatum* (Walsh) remains the more commonly collected species of the genus in both Indiana and Illinois.

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