

The Great Lakes Entomologist

Volume 17

Number 3 - Fall 1984 *Number 3 - Fall 1984*

Article 3

October 1984

A Checklist of Megaloptera and Neuroptera (Planipennia) of Indiana

H. R. Lawson
Chadron State College

W. P. McCafferty
Purdue University

Follow this and additional works at: <http://scholar.valpo.edu/tgle>



Part of the [Entomology Commons](#)

Recommended Citation

Lawson, H. R. and McCafferty, W. P. (1984) "A Checklist of Megaloptera and Neuroptera (Planipennia) of Indiana," *The Great Lakes Entomologist*: Vol. 17 : No. 3 , Article 3.

Available at: <http://scholar.valpo.edu/tgle/vol17/iss3/3>

This Peer-Review Article is brought to you for free and open access by the Department of Biology at ValpoScholar. It has been accepted for inclusion in The Great Lakes Entomologist by an authorized administrator of ValpoScholar. For more information, please contact a ValpoScholar staff member at scholar@valpo.edu.

A CHECKLIST OF MEGALOPTERA AND NEUROPTERA (PLANIPPENIA) OF INDIANA¹

H. R. Lawson² and W. P. McCafferty³

ABSTRACT

Sixty-five species of the insect orders Megaloptera and Neuroptera have been confirmed as being distributed in the state of Indiana, with the majority representing new state records.

A first list of Indiana Neuroptera (Montgomery and Trippel 1933) included 15 species. Ross (1937) included Indiana records for five species of Megaloptera. Otherwise, only scattered and piecemeal Indiana records of Megaloptera and Neuroptera have since appeared in the literature. The present checklist includes 65 nominal species, of which 36 represent first published records for the state (they are asterisked in list). Twelve of the 13 North American families are represented.

The checklist is based primarily on the study of specimens held at the Purdue Entomological Research Collections and collected under the auspices of that program, mostly since 1968. Collections at Earlham College, Eastern Illinois University, Illinois Natural History Survey, Indiana University, Indiana State University, and Valparaiso University were also examined. Additional species will undoubtedly be found in Indiana in the future and are expected to include many of those reported for one or more surrounding states. Only species with verified Indiana records are included herein. No attempt has been made to explain intrastate distribution records for species, since these records are heavily biased by certain seasonal periods, habitats, and faunal provinces being much more comprehensively sampled than others. For identifying midwestern species of Neuroptera and Megaloptera see especially Banks (1927), Brigham (1982), Carpenter (1940), Chandler (1956), Cuyler (1958), Meinander (1972), Neunzig (1966), Parfin and Gurney (1956), Ross (1937), Stange (1970), and Thorne (1971a,b).

We thank the officers of the above mentioned collections, Dr. Ellis G. MacLeod (University of Illinois), and Dr. Mark Deyrup (Archbold Biological Station, Florida) for their generous assistance in this study.

Order MEGALOPTERA

Family SIALIDAE

- | | |
|--|---|
| * <i>Sialis americana</i> (Rambur)
<i>S. hasta</i> Ross
<i>S. infumata</i> Newman
* <i>S. iola</i> Ross | <i>S. itasca</i> Ross
<i>S. mohri</i> Ross
<i>S. vagans</i> Ross
* <i>S. velata</i> Ross |
|--|---|

Family CORYDALIDAE

- | | |
|---|--|
| <i>Chauliodes pectinicornis</i> (L.)
<i>C. rastricornis</i> Rambur
<i>Corydalus cornutus</i> (L.) | <i>Neohermes concolor</i> (Davis)
<i>Nigronia fasciatus</i> (Walker)
<i>N. serricornis</i> (Say) |
|---|--|

¹Purdue Agriculture Experiment Station Journal No. 9817.

²Division of Science and Mathematics, Chadron State College, Chadron, NE 69337.

³Department of Entomology, Purdue University, West Lafayette, IN 47907.

Order NEUROPTERA (PLANIPENNIA)

Family CONIOPTERYGIDAE

- | | |
|---|--|
| * <i>Coniopteryx simplicior</i> Meinander | * <i>Helicoconis walshi</i> (Banks) |
| * <i>C. tineiformis</i> Curtis | * <i>Semidalis inconspicua</i> Meinander |
| * <i>C. westwoodi</i> (Fitch) | * <i>S. vicina</i> (Hagen) |
| * <i>Conwentzia pineticola</i> Enderlein | |

Family MANTISPIDAE

- | | |
|----------------------------------|--------------------------|
| <i>Climaciella brunnea</i> (Say) | * <i>M. uhleri</i> Banks |
| * <i>Mantispa interrupta</i> Say | |

Family HEMEROBIIDAE

- | | |
|--------------------------------------|---------------------------------------|
| * <i>Boriomyia fidelis</i> (Banks) | <i>Micromus posticus</i> (Walker) |
| * <i>Hemerobius conjunctus</i> Fitch | * <i>M. subanticus</i> (Walker) |
| <i>H. humulinus</i> L. | * <i>M. variolosus</i> Hagen |
| * <i>H. pacificus</i> Banks | * <i>Psectra diptera</i> (Burmeister) |
| * <i>H. pinidumus</i> Fitch | * <i>Symphorobius amicus</i> (Fitch) |
| <i>H. stigma</i> Stephens | * <i>S. barberi</i> (Banks) |
| * <i>Kimminsia disjuncta</i> (Banks) | * <i>S. occidentalis</i> (Fitch) |
| * <i>K. subnebulosa</i> (Stephens) | |

Family CHRYSOPIDAE

- | | |
|---|---------------------------------------|
| * <i>Ceraeochrysa lineaticornis</i> (Fitch) | <i>C. quadripunctata</i> Burmeister |
| <i>Chrysopa carnea</i> Stephens | <i>C. rufilabris</i> Burmeister |
| <i>C. harrisi</i> Fitch | <i>Leucochrysa insularis</i> (Walker) |
| * <i>C. incompleta</i> Banks | * <i>Mallada luctuosa</i> (Banks) |
| <i>C. nigricornis</i> Burmeister | * <i>Meleoma signoretti</i> Fitch |
| <i>C. oculata</i> Say | * <i>Nodita pavidata</i> (Hagen) |

Family DILARIDAE

- **Nallachius americanus* (McLachlan)

Family BEROETHIDAE

- | | |
|------------------------------------|----------------------------------|
| * <i>Lomamyia banksi</i> Carpenter | * <i>L. flavicornis</i> (Walker) |
|------------------------------------|----------------------------------|

Family POLYSTOECHOTIDAE

- **Polystoechotes punctatus* (Fabricius)

Family SISYRIDAE

- | | |
|-------------------------------------|----------------------------|
| <i>Climacia areolaris</i> (Hagen) | <i>S. vicaria</i> (Walker) |
| * <i>Sisyra fuscata</i> (Fabricius) | |

Family MYRMELEONTIDAE

- | | |
|--|-------------------------------------|
| <i>Brachynemurus abdominalis</i> (Say) | <i>Dendroleon obsoletum</i> (Say) |
| * <i>B. longicaudus</i> (Burmeister) | <i>Glenurus gratus</i> (Say) |
| * <i>B. nebulosus</i> (Oliver) | <i>Myrmeleon immaculatus</i> DeGeer |

Family ASCALAPHIDAE

Ululodes quadrimaculata (Say)

LITERATURE CITED

- Banks, N. 1927. Revision of nearctic Myrmeleontidae. Bull. Mus. Comp. Zool. Harvard, 68:1-84.
- Brigham, W. U. 1982. Megaloptera, p. 7.1-7.12 in A. R. Brigham, W. U. Brigham, and A. Gnika (eds.), Aquatic insects and oligochaetes of North and South Carolina. Midwest Aquatic Enterprises, Mahomet, IL.
- Carpenter, F. M. 1940. Revision of nearctic Hemerobiidae, Berothidae, Sisyridae, Polystoechotidae and Dilaridae. Proc. Amer. Acad. Arts Sci. 74:193-208.
- Chandler, H. P. 1956. Megaloptera, p. 229-233 in R. L. Usinger (ed.), Aquatic insects of California. Univ. California Press, Berkeley.
- Cuyler, R. D. 1958. The larvae of *Chauliodes* Latreille (Megaloptera: Corydalidae). Ann. Entomol. Soc. Amer. 51:582-586.
- Meinander, M. 1972. A revision of the family Coniopterygidae. Acta Zool. Fenn. 136:1-357.
- Montgomery, B. E. and A. W. Trippel. 1933. A preliminary list of Indiana Neuroptera. Entomol. News 44:258-261.
- Neunzig, H. H. 1966. Larvae of the genus *Nigronia* Banks (Neuroptera: Corydalidae). Proc. Entomol. Soc. Washington 68:11-16.
- Parfin S. and A. B. Gurney. 1956. The spongillafly, with special reference to those of the western hemisphere (Sisyridae, Neuroptera). Proc. U.S. Natl. Mus. 105:451-529.
- Ross, H. H. 1937. Studies of Nearctic aquatic insects. I. Nearctic alder flies of the genus *Sialis* (Megaloptera, Sialidae). Bull. Illinois Nat. Hist. Surv. 21:57-78.
- Stange, L. A. 1970. Revision of the ant-lion tribe Brachynemurini of North America (Neuroptera: Myrmeleontidae). Univ. California Publ. Entomol. 55:1-192.
- Thorne, A. L. 1971a. The Neuroptera—suborder Planipennia of Wisconsin. Part I—Introduction and Chrysopidae. Michigan Entomol. 4:65-78.
- . 1971b. The Neuroptera—suborder Planipennia of Wisconsin. Part II—Hemerobiidae, Polystoechotidae, and Sisyridae. Michigan Entomol. 4:79-87.