An Annotated List of the Stoneflies of Ohio (Plecoptera)

Gaufin, Arden R.
AN ANNOTATED LIST OF THE STONEFLIES OF OHIO
(PLECOPTERA)

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While stoneflies constitute one of the smaller orders of insects, they are nevertheless one of the most important groups to both fisheries and sanitary biologists. In mountain streams, they are one of the principal sources of food for trout. Because of their preference for clean, well aerated water, they are becoming increasingly important to sanitary biologists as indicators of clean water conditions in pollutional surveys.

From 1950 to 1953, the author made extensive collections of stoneflies from many of the rivers and smaller streams in southern Ohio. Specimens in the insect museums of the Illinois Natural History Survey, Ohio State University, and Ohio University were also made available for study by the curators of those collections.

The first extensive list of the stonefly fauna of Ohio was published by Walker (1947). In that paper, he reported twenty-four species which he collected during his survey of the stoneflies of southeastern Ohio. In addition, he listed seven other species not taken in that region but reported for elsewhere in the state in publications of Needham and Claassen (1925), Claassen (1931), and Frison (1937, 1942). Seven other species are recorded for the state in publications of Claassen (1939) and Ricker (1952). Eighteen additional species are reported in this paper. Each of these species is indicated by an asterisk preceding the species name. The systematic arrangement followed in this paper is that of Ricker (1950, 1952).

The recorded distribution of each species in the state is given by counties. The names of collectors other than the writer are indicated by initials in parentheses following the county record. Two asterisks following a county name indicates that the writer as well as the collector cited has taken the species in that county. The dates following the lists of counties are the earliest and latest dates of observation or capture of adults of the species in Ohio. Specimens collected by the writer are in his personal collection; all other specimens are in the insect museums previously listed.

The following initials are used for collectors. The abbreviations following each collector's name indicate the location of the collections.

<table>
<thead>
<tr>
<th>Initials</th>
<th>Name and Institution</th>
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<tr>
<td>CHK</td>
<td>C. H. Kennedy (OSU)</td>
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<td>WER</td>
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</tr>
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<td>WPP</td>
<td>W. P. Porter (OU)</td>
</tr>
</tbody>
</table>

1Present address: Department of Zoology, University of Utah, Salt Lake City.

### List of Species

#### Family Pteronarcidae

1. *Pteronarcyys dorsata* Say.

   Reported for Ohio in Needham and Claassen (1925). No county given.

#### Family Nemouridae

**Subfamily Nemourinae**

   Clark, Clifton (JNK), Clinton, Delaware (JNK), Greene, Miami, Montgomery. May 7 to July 1.


5. *Nemoura varshavae* Ricker.

   Greene. June 7 to 11, 1953.

7. *Nemoura truncata* Claassen.
   Athens (JDW). April 25, 1941.

8. *Nemoura similis* Hagen.
   Athens (WCS, JDW).

   Athens (WCS, JDW), Delaware (JNK), Franklin (JNK), Greene (JNK), Hocking (JNK, JDW), Tuscarawas (JDW), Vinton (JDW), Washington (WCS). April 25 to June 4.

**Subfamily Leuctrinae**

    Hocking** (JDW), Montgomery (LRE). May 23 to June 28.


    Athens (WCS, JDW), Greene, Hamilton, Hocking (JDW), Tuscarawas (JDW), Vinton (JDW), Washington (WCS). March 27 to May 22.

**Subfamily Capniinae**

    Athens (WCS), Butler, Clinton, Hamilton, Miami. January 4 to March 11.

    Athens (WCS), Butler, Clark** (THF), Champaign, Clermont, Franklin (THF), Greene, Hocking (THF), Logan, Miami, Montgomery, Preble (THF). December 9 to March 10.

15. *Allocapnia pygmaea* (Barmeister).
    Athens (WCS, THF, JDW), Franklin (RCO), Hocking (THF). February 18 to March 6.

    Clinton, Greene, Hocking (RCO), Logan, Miami, Montgomery. November 6 to March 29.

17. *Allocapnia rickeri* Frison.
    Athens (THF), Clermont, Greene, Miami, Muskingum (HHR), Montgomery. January 16 to March 6.


19. *Allocapnia viviparia* (Claassen).
    Athens (WCS, THF, JDW), Ashtabula (THF), Butler, Clark** (THF), Clermont, Champaign, Clinton, Fairfield (THF), Franklin ** (HRD, THF), Greene, Hamilton** (THF), Hocking** (THF), Logan, Miami** (THF), Montgomery, Preble (THF), Pickaway (THP), Shelby, Tuscarawas (JDW), Warren. November 2 to May 2.

    Athens (THF), Hocking (THF), Scioto (WER). March 6 to 19.
Hocking (THF, JNK).  March 5 to 22.

Franklin (LSR), Hocking (JNK).

23. *Capnia vernalis* (Newport).  
Franklin (LSR).

Subfamily Taeniopteryginae

Athens (WCS), Butler, Clark, Clermont, Franklin (RCO), Miami, Montgomery, Shelby, Warren.  December 17 to March 16.

Athens (WCS, HWS, JDW), Butler, Champaign, Clark** (THF), Clermont, Clinton, Franklin, (JSH, THF, HRD, LRE), Greene, Hocking (JNK, RCO, THF), Jefferson (THF), Logan** (THF), Hamilton, Miami, Montgomery, Shelby, Warren.  November 6 to March 29.

Family Perlodidae

Subfamily Isogeninae

26. *Isogenus duplicatus* Banks.  
Athens (WCS, JDW), Hocking (JNK, JDW), Logan, Tuscarawas (JDW), Vinton (JDW).  March 16 to May 22.

Subfamily Isoperlinae

27. *Isoperla bilineata* (Say).  
Athens (WCS, JDW), Butler, Franklin (RCO, 1899), Hamilton, Hocking** (WCS, JDW), Licking (CRN), Miami, Montgomery, Tuscarawas (JDW).  April 27 to July 11.

Butler.  April 28, 1953.

29. *Isoperla confusa* Frison.  
Athens (WCS, JDW), Clermont, Clinton, Hamilton, Miami, Shelby, Tuscarawas (JDW).  January 9 to April 25.  Adults taken only on April 25.

30. *Isoperla decepta* Frison.  

31. *Isoperla munda* (Banks).  
Champaign, Clark, Clinton, Darke, Franklin (RCO, JNK), Greene, Licking (RCO), Logan, Miami, Preble.  April 10 to June 16.

32. *Isoperla orata* Frison.  
Hocking, Logan.  May 30 to June 28.

33. *Isoperla transmarina* (Newman).  
Logan.  May 19 to 22.

34. *Isoperla clia* Newman.  
Greene (CHK).  1934.

Family Chloroperlidae

Subfamily Chloroperlinae

35. *Alloperla imbecilla* (Say).  

Hocking.  May 23, 1953.

37. *Alloperla caudata* Frison.  

38. *Alloperla mediana* Banks.  
Logan.  May 12, 1953.

Athens (JDW), Hocking** (JNK, WCS), Logan.  May 12 to 30.

Family Perlidae

Subfamily Perlinae

40. *Neoperlca clymene* (Newman)  
Athens (WCS), Adams (CRN), Butler, Clermont, Clinton, Franklin (CHK), Miami, Montgomery, Ottawa (CHK), Ross (CHK), Warren.  May 2 to August 15.
41. *Neophasanophora capitata* (Pictet). Athens (JDW), Butler, Clermont, Clinton, Delaware (JNK), Franklin (CHK), Greene, Miami, Montgomery, Pickaway (JSC), Preble, Shelby, Warren. May 2 to July 23.


45. *Perlesta placida* (Hagen). Athens (JNK), Athens (WCS, RPT), Butler, Champaign, Clermont, Clinton, Clark, Delaware (JNK), Franklin (JNK, DJB), Greene** (JNK), Hamilton, Hocking** (JNK), Holmes (RPT), Knox (DJB), Logan, Lucas (WCS), Medina (JNK), Miami, Montgomery, Preble, Ross (CHK), Scioto (CHK), Shelby, Warren. March 21 to July 19.


47. *Acroneuria arida* (Hagen). Athens (WCS), Adams (CHK), Franklin (CHK), Greene (JNK), Holmes (RPT), Hocking (JDW), Ross (CHK), Ottawa (PSS, RCO, CHK). May 30 to July 7.


49. *Acroneuria evoluta* Klapalek. Adams (CRN), Athens (JCH), Butler, Clark, Clermont, Clinton, Delaware (JNK), Darke, Greene, Hamilton, Hocking, Logan, Miami, Montgomery, Preble, Ottawa (RCO), Shelby, Warren. May 20 to August 30.


55. *Acroneuria ruralis* (Hagen). Franklin (RCO), Hamilton (JTL). June 1 to July 12.


LITERATURE CITED


