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The Type Localities of the  
Ephemeroptera of North America  
North of Mexico

BY

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## INTRODUCTION

The systematic study of North American mayflies (Ephemeroptera) can develop in an orderly and vigorous manner only when there is an adequate knowledge of the described species. When published descriptions are inadequate for revisionary studies, the first recourse is to the examination of types. Type specimens are at times quite inadequate for sound revisionary study as they may be poorly preserved, represented by inadequate series, or known in only one sex and life history stage. In such cases, new collections from the type locality may be invaluable in providing further data on a poorly known species. Unfortunately, systematic works are not usually organized in such a way as to direct attention to type localities when a collector has the opportunity to make new collections.

To facilitate the re-collection of type localities this list of type localities is arranged by state or province, or country only if the type locality is not in the United States or Canada. For each species the type locality and date of collection are listed. To further aid entomologists revising a given taxon this geographical list is cross-indexed with a revised check list of the mayfly species of North America north of Mexico.

It is hoped that this catalogue will stimulate Ephemeropterists to seek collections of poorly known species when collecting in areas that have served as collection sites for the types of various species. Topotypical collections of well known species may seem unnecessary, but these may be of special value if the species should prove to be polytypic.

In the systematic list all synonyms are indented and placed in italics under the valid name. In the case of species renamed because of homonymy the type locality of the rejected homonym is automatically the type locality. In the geographical list the type localities of synonyms are included because topotypical series of some species now in synonymy are valuable for checking the correctness of accepted synonymies. Complete references on literature citations in the list of species are included in the bibliography only when they have not been included in Needham, Traver and Hsu (1935) or in Edmunds and Allen (1957).

### Systematics and Nomenclatural Changes

Since the publication of the check list by Edmunds and Allen (1957) several changes have taken place in the nomenclature and systematics of North American mayflies. All of these changes are incorporated in the present systematic list of species and the papers are cited in the references.

Three secondary homonyms were rejected by Eaton (1883-1888) and new names were provided. The rejected names were subsequently reinstated and used by American workers. With the generous aid of D. E. Kimmins of the British Museum (Natural History), I have re-investigated each of these cases. The reinstatement of these names was improper under the current and previous rules of the International Commission of Zoological Nomenclature. Further delay in recognizing the proper names for these species can result only in further confusion. These secondary homonyms are herein rejected and the names provided by Eaton are used as follows, *Baetis hageni* Eaton replaces *B. unicolor* (Hagen), *Rhithrogena hageni* Eaton replaces *R. brunnea* (Hagen), and *Paraleptophlebia memorialis* Eaton replaces *P. pallipes* (Hagen). As will be seen below two of these names are also involved in new synonymies.

My study of North America Ephemeroptera has resulted in the discovery of several new synonymies. It seems best to make these changes here rather than perpetuate the errors.

*Siphonurus occidentalis* Eaton (= *Siphonurus inflatus* McDunnough. *New Synonymy*). *Siphonurus inflatus* was described from female specimens from Cameron Lakes, Waterton Lakes, Alberta. Although the males have never been described, several males in the collection of the American Museum of Natural

History bear determination labels as "*Siphonurus inflatus* McDunnough, Det. J. McDunnough." These males are indistinguishable from *S. occidentalis* Eaton. Subsequently, at my request Dr. Richard K. Allen kindly compared some pinned female *S. occidentalis* from our collection with the type of *S. inflatus* in the Canadian National Collection. In his opinion, the females were conspecific. The evidence thus seems adequate the *S. inflatus* is a junior synonym of *S. occidentalis*.

*Rhithrogena hageni* Eaton (= *Rhithrogena brunnea* Hagen not Rambur, *Rhithrogena doddsi* McDunnough. *New synonymy*). Day (1957) has described the great variation in the penes of *Rhithrogena hageni* (as *R. brunnea*) through a study of a topotypical series and has concluded that *R. doddsi* is possibly only a Rocky Mountain subspecies of *R. brunnea*. He presented little evidence that the Rocky Mountain populations were morphologically differentiated and after study of the type of *R. brunnea* at the Museum of Comparative Zoology, I have concluded that *R. doddsi* is a synonym of *R. hageni* (= *R. brunnea*).

*Baetis hageni* Eaton (= *Baetis unicolor* (Hagen) not Curtis, *Baetis herodes* Burks, *New synonymy*.) The type specimen of *Baetis hageni* from Washington, D.C. has always been considered unidentifiable because the only exposed hind wing was rolled up and its venation was not determinable. In September, 1960, I removed the minute hind wing from the type at the Museum of Comparative Zoology and mounted in on a slide. The dry rolled-up wing was dropped onto distilled water just as the water came to a boil, then quickly floated onto a glass slide, and covered with a cover glass that was secured with gummed paper and allowed to dry. The resulting slide revealed that this female specimen had a hind wing similar to *Baetis herodes* Burks, a species known only from males from Illinois. In December, 1960, at the American Museum of Natural History, I found numerous associated males and females collected from widely distributed localities in eastern North America by Herman T. Spieth. These specimens had been labeled as the closely allied western species *Baetis parvus* Dodds. The nymph described from Ontario by Ide (1930) as *B. parvus* is quite obviously the nymph of *Baetis hageni*.

*Callibaetis coloradensis* Banks (= *Callibaetis fuscus* Dodds, *New synonymy*.) In 1952 I examined the type of *Callibaetis fuscus* Dodds at the Academy of Natural Sciences of Philadelphia and in 1960 the type of *Callibaetis coloradensis* Banks at the Museum of Comparative Zoology. Despite the great variation and taxonomic difficulties in this section of the genus there is little or no doubt that the two names apply to the same species. I am familiar with *C. coloradensis* in nature as it is abundant in the mountains of Utah, Wyoming and Colorado.

Edmunds (1955) and Edmunds and Allen (1957) have synonymized a number of species without explaining the basis for such synonymy. The reasons for these synonymies are as follows. The characteristics of the type specimens of *Cinygmula hyalina* and *C. par* are completely connected by a continuous series of intermediates in color and size; the principal cause of the variation is probably water temperature of the streams where the nymphs develop. *Cinygmula atlantica* was synonymized with *C. subaequalis* after study of the type of the latter; there is no basis on which to recognize two separate species. *Epeorus sancta-gabriel* was synonymized with *E. hesperus* after comparison of the type of *E. hesperus* and near-topotypes of *E. sancta-gabriel*. There is some reason to believe that the type locality of *E. hesperus* is Pacoima, California rather than "Pacoima, Washington," a locality unknown to me. If so, the type localities of *E. hesperus* and *E. sancta-gabriel* are quite near to one another. *Baetis bicaudatus* and *B. minimus* were synonymized after study of the types of both species and by comparison with series of reared specimens from Utah. *Ephemerella angusta* was synonymized with *E. tibialis* and *Tricorythodes fallacina* was synonymized with *T. minutus* after study of newly-collected topotypical series of *E. angusta* and *T. minutus* and comparison with the much-faded type specimens.



# CHECKLIST OF SPECIES

## Superfamily **HEPTAGENIOIDEA**

### Family SIPHLONURIDAE

#### SUBFAMILY SIPHLONURINAE

##### Ameletus Eaton, 1885: 210.

aequivocus McDunnough, 1934: 164. Colorado  
alticolus McDunnough, 1934: 163. Alberta  
amador Mayo, 1939: 149. California  
browni McDunnough, 1933: 278. Quebec  
celer McDunnough, 1934: 161. Alberta  
celeroides McDunnough, 1934: 162. British Columbia  
connectina McDunnough, 1939: 50. British Columbia  
connectus McDunnough, 1936: 209. British Columbia  
cooki McDunnough, 1929: 174. Montana  
dissitus Eaton, 1885: 210. California  
exquisitus Eaton, 1885: 212. Oregon  
facilis Day, 1952: 24. California  
falsus McDunnough, 1938: 30. Arizona  
imbellis Day, 1952: 23. California  
lineatus Traver, 1932: 194. North Carolina  
ludens Needham, 1905: 36. New York  
monta Mayo, 1952: 93. British Columbia  
oregonensis McDunnough, 1933: 157. Oregon  
querulus McDunnough, 1938: 29. British Columbia  
shepherdi Traver, 1934: 238. California  
similior McDunnough, 1928: 9. Alberta  
sparsatus McDunnough, 1931: 89. Alberta  
subnotatus Eaton, 1885: 211. Colorado  
suffusus McDunnough, 1936: 210. British Columbia  
tertius McDunnough, 1938: 27. Nova Scotia  
tuberculatus McDunnough, 1939: 50. British Columbia  
validus McDunnough, 1923: 50. Alberta  
vancouverensis McDunnough, 1933: 157. British Columbia  
velox Dodds, 1923: 105. Colorado  
vernalis McDunnough, 1924: 115. British Columbia

##### Edmundsius Day, 1953: 19.

agilis Day, 1953: 22. California

##### Acanthametropus Tshernova, 1948: 1453.

pecatonica (Burks, 1953: 147).

##### Parameletus Bengtsson, 1908: 242.

chelifer Bengtsson, 1908: 242. Sweden

columbiae McDunnough, 1938: 31. British Columbia

croesus (McDunnough, 1923: 48). Ontario  
 midas (McDunnough, 1923: 49). Ontario

Siphlonisca Needham, 1909: 72.

aerodromia Needham, 1909: 72. New York

Siphonurus Eaton, 1868: 89.

alternatus (Say, 1824: 304). Northwest Territory

*annulata* (Walker, 1853: 567). New York

autumnalis McDunnough, 1931: 89. Alberta

barbaroides McDunnough, 1929: 174. Quebec

barbarus McDunnough, 1924: 225. New York

columbianus McDunnough, 1925: 187. British Columbia

decorus Traver, 1932: 182. North Carolina

luridipennis (Burmeister, 1839: 801). Ontario

marginatus Traver, 1932: 179. North Carolina

marshalli Traver, 1934: 236. Arkansas

mirus Eaton, 1885: 221. New Hampshire

noveboracana (Lichtenstein, 1796: III, 193, 52). *nomen dubium*.  
 New York

occidentalis Eaton, 1885: 218. Colorado

*inflatus* McDunnough, 1931: 90. Alberta

phyllis McDunnough, 1923: 49. Alberta

quebecensis (Provancher, 1878: 127). Quebec

*triangularis* Clemens, 1915: 250. New York

rapidus McDunnough, 1924: 75. Massachusetts

securifer McDunnough, 1926: 301. Ontario

spectabilis Traver, 1934: 233. California

*maria* Mayo, 1939: 145. California

typicus Eaton, 1885: 222. Massachusetts

*berenice* McDunnough, 1923: 49. Quebec

*novangliae* McDunnough, 1924: 75. Massachusetts

#### SUBFAMILY ISONYCHIINAE

Isonychia Eaton, 1871: 134.

annulata Traver, 1932: 204. North Carolina

arida (Say, 1839: 42). Indiana

aurea Traver, 1932: 224. North Carolina

bicolor (Walker, 1853: 552). Ontario

*albomanicatus* (Needham, 1905: 31). New York

christina Traver, 1934: 240. New York

circe Traver, 1934: 242. Georgia

diversa Traver, 1934: 244. Tennessee

fattigi Traver, 1934: 245. Georgia

georgiae McDunnough, 1931: 159. Florida

harperi Traver, 1934: 246. New York

intermedia (Eaton, 1885: 207). Arizona

matilda Traver, 1934: 248. New York

*notata* Traver, 1932: 210. North Carolina  
*obscura* Traver, 1932: 217. North Carolina  
*pacoleta* Traver, 1932: 218. North Carolina  
*pictipes* Traver, 1934: 250. Georgia  
*rufa* McDunnough, 1931: 162. Iowa  
*sadleri* Traver, 1934: 251. New York  
*sayi* Burks, 1953: 110. Illinois  
*serrata* Traver, 1932: 222. North Carolina  
*sicca campestris* McDunnough, 1931: 161. Alberta  
*sicca manca* Eaton, 1871: 134. Texas  
*sicca sicca* (Walsh, 1862: 371). Illinois  
*similis* Traver, 1932: 213. North Carolina  
*thalia* Traver, 1934: 253. North Carolina  
*tusculanensis* Berner, 1948: 117. Tennessee  
*velma* Needham, 1932: 273. California

## Family BAETIDAE

## SUBFAMILY BAETINAE

*Apobaetis* Day, 1955: 126.

*indepressus* Day, 1955: 127. California

*Baetis* Leach, 1815: 137.

*adonis* Traver, 1935: 680. California

*akataleptos* McDunnough, 1926: 188. Alberta

*alius* Day, 1954: 32. California

*amplus* (Traver, 1932: 233). North Carolina

*anachris* Burks, 1953: 133. Illinois

*australis* Traver, 1932: 230. North Carolina

*baeticatus* Burks, 1953: 129. Illinois

*bicaudatus* Dodds, 1923: 110. Colorado

*minimus* Dodds, 1923: 113. Colorado

*brunneicolor* McDunnough, 1925: 173. Ontario

*caurinus* Edmunds and Allen, 1957: 58. Oregon

*cingulatus* McDunnough, 1925: 216. Quebec

*cleptis* Burks, 1953: 130. Illinois

*curiosus* (McDunnough, 1923: 43). Ontario

*devinctus* Traver, 1935: 684. California

*diablus* Day, 1954: 30. California

*elachistus* Burks, 1953: 127. Illinois

*endymion* Traver, 1935: 686. Oklahoma

*ephippiatus* Traver, 1935: 687. Georgia

*erebus* Traver, 1935: 687. Arizona

*flavistriga* McDunnough, 1921: 120. Ontario

*foemina* McDunnough, 1936: 33. Northwest Territory

*frivulus* McDunnough, 1925: 174. Quebec

*frondalis* McDunnough, 1925: 173. Quebec

- hageni Eaton, 1885: 169. Renamed.  
     *unicolor* (Hagen, 1861: 54), not Curtis, 1834: 121.  
     District of Columbia  
     *herodes* Burks, 1953: 130. Illinois  
 harti McDunnough, 1924: 7. Illinois  
 hiemalis Leonard, 1950: 155. Michigan  
 hudsonicus Ide, 1937: 221. Manitoba  
 incertans McDunnough, 1925: 220. Quebec  
 insignificans McDunnough, 1926: 300. British Columbia  
 intercalaris McDunnough, 1921: 118. Ontario  
     *lasallei* Banks, 1924: 425. Wisconsin  
 intermedius Dodds, 1923: 110. Colorado  
 jesmondensis McDunnough, 1938: 25. British Columbia  
 lapponica (Bengtsson, 1912: 111). Sweden  
 leechi Day, 1954: 29. California  
 levitans McDunnough, 1925, 216. Quebec  
 macdunnoughi Ide, 1937: 230. Quebec  
 moffati Dodds, 1923: 112. Colorado  
 nanus McDunnough, 1923: 42. Ontario  
 ochris Burks, 1953: 132. Illinois  
 pallidulus McDunnough, 1924: 8. Illinois  
 palisadi Mayo, 1952: 95. California  
 parallelus Banks, 1924: 425. Nevada  
 parvus Dodds, 1923: 113. Colorado  
 persecuta McDunnough, 1939: 52. British Columbia  
 phoebus McDunnough, 1923: 41. Ontario  
 phyllis Burks, 1953: 134. Illinois  
 piscatoris Traver, 1935: 697. California  
 pluto McDunnough, 1925: 218. Quebec  
 posticatus (Say, 1824: 162). Pennsylvania  
 propinquus (Walsh, 1863: 207). Illinois  
     *dardanus* McDunnough, 1923: 41. Manitoba  
 pygmaeus (Hagen, 1861: 54). Quebec  
 quilleri Dodds, 1923: 112. Colorado  
 rusticans McDunnough, 1925: 217. Quebec  
 spiethi Berner, 1940: 52. Florida  
 spinosus McDunnough, 1925: 174. Manitoba  
 sulfurosus Day, 1954: 33. California  
 thermophilos McDunnough, 1926: 188. Wyoming  
 tricaudatus Dodds, 1923: 111. Colorado  
 vagans McDunnough, 1925: 219. Quebec
- Baetodes Needham and Murphy, 1924: 55.  
     *species?*, Edmunds, 1950: 203.
- Callibaetis Eaton, 1881: 196.  
     *americanus* Banks, 1900: 250. Colorado  
     *brevicostatus* Daggy, 1945: 388. Minnesota

- californicus Banks, 1900: 249. California  
 carolus Traver, 1935: 663. California  
 centralis Peters, 1959: 173. Kansas  
 coloradensis Banks, 1900: 250. Colorado  
     *fuscus* Dodds, 1923: 100. Colorado  
 doddsi Traver, 1935: 664. Renamed  
     *vitrea* Dodds, 1923: 100 not Navas, 1918: 81. Colorado  
 evergreenensis Thew, 1959: 264. Colorado  
 ferrugineus (Walsh, 1862: 379). Illinois  
 floridanus Banks, 1900: 249. Florida  
 fluctuans (Walsh, 1862: 379). Illinois  
 hageni Eaton, 1885: 192, *nomen dubium*. Renamed  
     *tessellata* (Hagen, 1861: 50) not Walker, 1853: 566. Washington  
 hebes Upholt, 1936: 120. California  
 montanus Eaton, 1885: 196. Guatemala  
 nigritus Banks, 1918: 12. Colorado  
     *claudiae* Edmunds, 1945: 169, *nomen nudum*  
 pacificus Seemann, 1927: 49. California  
 pallidus Banks, 1900: 251. Colorado  
 pictus (Eaton, 1871: 122). Texas  
 pretiosus Banks, 1914: 615. Virginia  
 semicostatus Banks, 1914: 614. Manitoba  
 signatus Banks, 1918: 11. Arizona  
 skokianus Needham, 1903: 215. New York  
 traverae Upholt, 1937: 86. California
- Centroptilum Eaton, 1869: 132.
- album McDunnough, 1926: 189. Ontario  
 asperatum Traver, 1935: 708. California  
 bellum McDunnough, 1924: 96. Quebec  
 bifurcatum McDunnough, 1924: 96. Alberta  
 caliginosum McDunnough, 1925: 175. Quebec  
 conturbatum McDunnough, 1929: 171. Alberta  
 convexum Ide, 1930: 222. Ontario  
 elsa Traver, 1935: 713. Wyoming  
 fragile McDunnough, 1923: 42. Ontario  
 hobbsi Berner, 1946: 77. Florida  
 infrequens McDunnough, 1924: 98. Manitoba  
 intermediale McDunnough, 1931: 87. Quebec  
 oreophilum Edmunds, 1954: 1. Oregon  
 ozburni McDunnough, 1924: 97. Quebec  
 quaesitum McDunnough, 1931: 87. Alberta  
 rivulare Traver, 1935: 716. Ohio  
 rufostrigatum McDunnough, 1924: 95. Manitoba  
     *bistrigatum* Daggy, 1945: 389. Minnesota  
 selanderorum Edmunds, 1954: 2. Utah

semirufum McDunnough, 1926: 189. Ontario  
 simile McDunnough, 1924: 97. Quebec  
 venosum Traver, 1935: 718. California  
 victoriae McDunnough, 1938: 27. Nova Scotia  
 viridocularis Berner, 1940: 39. Florida  
 walshi McDunnough, 1929: 173. Iowa

*Cloeon* Leach, 1815: 137.

dipterum (Linnaeus, 1761: 377). Sweden  
 implicatum McDunnough, 1924: 113. Alberta  
 inanimatum McDunnough, 1924: 113. Alberta  
 ingens McDunnough, 1923: 44. Alberta  
 insignificans McDunnough, 1925: 186. Ontario  
 mendax (Walsh, 1862: 381). Illinois  
 minor McDunnough, 1926: 190. Ontario  
 rubropictum McDunnough, 1923: 43. Ontario  
 simplex McDunnough, 1925: 185. Quebec  
 triangulifer McDunnough, 1931: 88. Ontario  
 vicinum (Hagen, 1861: 54). District of Columbia

*Neocloeon* Traver, 1932: 365.

alamance Traver, 1932: 367. North Carolina

*Paracloeodes* Day, 1955: 121.

abditus Day, 1955: 122. California

*Pseudocloeon* Klapalek, 1905: 105.

alachua Berner, 1940: 58. Florida  
 anoka Daggy, 1945: 391. Minnesota  
 bimaculatus Berner, 1946: 79. Florida  
 carolina (Banks, 1924: 426). North Carolina  
 chlorops (McDunnough, 1923: 45). Ontario  
 cingulatum McDunnough, 1931: 85. Quebec  
 dubium (Walsh, 1862: 380). Illinois  
 ellioti Daggy, 1945: 392. Minnesota  
 etowah Traver, 1935: 726. Georgia  
 futile McDunnough, 1931: 86. Alberta  
 ida Daggy, 1945: 393. Minnesota  
 minutum Daggy, 1945: 394. Minnesota  
 myrsum Burks, 1953: 139. Illinois  
 parvulum McDunnough, 1932: 210. Ontario  
 punctiventris (McDunnough, 1923: 45). Ontario  
 rubrolaterale McDunnough, 1931: 86. Alberta  
 turbidum McDunnough, 1924: 113. Alberta  
 veteris McDunnough, 1924: 8. Illinois  
 virile (McDunnough, 1923: 46). Ontario

## Family OLIGONEURIIDAE

## SUBFAMILY OLIGONEURIINAE

Homoeoneuria Eaton, 1881: 192.

ammophila (Spieth, 1938: 1). Indiana

dolani Edmunds, 1959: 46. Georgia

Lachlania Hagen, 1868: 373.

powelli Edmunds, 1951: 327. Utah

saskatchewanensis Ide, 1941: 154. Saskatchewan

## Family HEPTAGENIIDAE

## SUBFAMILY HEPTAGENIINAE

Cinygma Eaton, 1885: 247.

dimicki McDunnough, 1934: 182. Oregon

integrum Eaton, 1885: 248. Oregon

lyriformis (McDunnough, 1924: 226). Alberta

Cinygmula McDunnough, 1933: 75.

confusa (McDunnough, 1924: 131). Alberta

gartrelli McDunnough, 1934: 182. British Columbia

kootenai McDunnough, 1943: 3. British Columbia

mimus (Eaton, 1885: 249). Colorado

par (Eaton, 1885: 249). Arizona

*hyalina* (McDunnough, 1924: 132). Alberta

ramaleyi (Dodds, 1932: 101). Colorado

*tollandi* (Dodds, 1923: 109). Colorado

reticulata McDunnough, 1934: 184. Oregon

subaequalis (Banks, 1914: 615). North Carolina

*atlantica* (McDunnough, 1924: 131). Nova Scotia

tarda (McDunnough, 1929: 178). Alberta

tioga Mayo, 1952: 184. California

uniformis McDunnough, 1934: 183. British Columbia

Epeorus Eaton, 1881: 26.

sg. iron Eaton, 1883: pl. 24, fig. 44.

albertae McDunnough, 1924: 129. Alberta

*youngi* (Traver, 1935: 412). Montana

deceptivus (McDunnough, 1924: 132.) Alberta

dispar (Traver, 1933: 161). North Carolina

dulciana (McDunnough, 1935: 103). British Columbia

fragilis Morgan, 1911: 104. New York

*tenuis* Traver, 1935: 412. New York

frisoni Burks, 1946: 608. Maine

hesperus (Banks, 1924: 424). Washington

*sancta-gabriel* (Traver, 1935: 410). California

lagunitas (Traver, 1935: 405). California

longimanus (Eaton, 1885: 245). Colorado

*proprius* (Traver, 1935: 408). Colorado

- namatus* Burks, 1946: 607. Indiana  
*pleuralis* (Banks, 1910: 201). New York  
     *fraudator* (Traver, 1935: 402). New York  
     *confusus* (Traver, 1935: 398). New York  
*punctatus* (McDunnough 1925: 189.) Ontario  
*rubidus* (Traver, 1933: 158). North Carolina  
*subpallidus* (Traver, 1937: 54). North Carolina  
*suffusus* (McDunnough, 1925: 189). Quebec  
*vitrea* (Walker, 1853: 555). Ontario  
     *humeralis* Morgan, 1911: 105. New York  
 sg. *ironodes* Traver, 1935: 32.  
     *arctus* (Traver, 1935: 33). Oregon  
     *californicus* (Banks, 1910: 202). California  
     *flavipennis* (Traver, 1935: 33). British Columbia  
     *geminatus* (Eaton, 1885: 250). Oregon  
     *lepidus* (Traver, 1935: 35). California  
     *nitidus* (Eaton, 1885: 246). Oregon  
 sg. *ironopsis* Traver, 1935: 36.  
     *grandis* (McDunnough, 1924: 130). Alberta  
     *permagnus* (Traver, 1935: 37). Oregon

*Heptagenia* Walsh, 1863: 197.

- adaequata* McDunnough, 1924: 120. Alberta  
*aphrodite* McDunnough, 1926: 194. Quebec  
*criddlei* McDunnough, 1927: 261. Wyoming  
*cruentata* Walsh, 1863: 205. Illinois  
     *reversalis* McDunnough, 1924: 118. Manitoba  
*diabasia* Burks, 1946: 610. Illinois  
*dolosa* Traver, 1935: 344. Georgia  
*elegantula* (Eaton, 1885: 253). Colorado  
     *coxalis* Banks, 1914: 615. Colorado  
     *querula* McDunnough, 1924: 119. Manitoba  
*flavescens* (Walsh, 1862: 373). Illinois  
*hebe* McDunnough, 1924: 122. Quebec  
*horrida* McDunnough, 1926: 301. Ontario  
*inconspicua* McDunnough, 1924: 118. Manitoba  
*julia* Traver, 1933: 149. North Carolina  
*juno* McDunnough, 1924: 121. Quebec  
*kennedyi* McDunnough, 1924: 225. California  
*lucidipennis* (Clemens, 1913: 329). Ontario  
*maculipennis* Walsh, 1863: 206. Illinois  
*manifesta* (Eaton, 1885: 253). Illinois  
*marginalis* Banks, 1910: 198. Virginia  
*minerva* McDunnough, 1924: 121. Quebec  
*otiosa* McDunnough, 1935: 104. Oregon  
*patoka* Burks, 1946: 612. Illinois



*perifida* McDunnough, 1926: 301. Ontario  
*persimplex* McDunnough, 1929: 179. Iowa  
*pulla* (Clemens, 1913: 330). Ontario  
*rodocki* Traver, 1935: 357. Idaho  
*rosea* Traver, 1935: 358. Oregon.  
*rubroventris* Traver, 1935: 359. California  
*rusticalis* McDunnough, 1931: 92. Quebec  
*simplicioides* McDunnough, 1924: 120. Alberta  
*solitaria* McDunnough, 1924: 119. Alberta  
*spinosa* Traver, 1933: 153. North Carolina  
*thetis* Traver, 1935: 362. North Carolina  
*townesi* Traver, 1935: 363. South Carolina  
*unbratica* McDunnough, 1931: 92. Quebec  
*walshi* McDunnough, 1926: 193. Ontario

*Rhithrogena* Eaton, 1881: 23.

*amica* Traver, 1935: 373. New York  
*anomala* McDunnough, 1928: 239. Quebec  
*brunneotincta* McDunnough, 1933: 280. Quebec  
*decora* Day, 1954: 19. California  
*exilis* Traver, 1933: 166. North Carolina  
*fasciata* Traver, 1933: 170. North Carolina  
*flavianula* (McDunnough, 1924: 225). Colorado  
*fuscifrons* Traver, 1933: 168. North Carolina  
*futilis* McDunnough, 1934: 187. Wyoming  
*gaspeensis* McDunnough, 1933: 279. Quebec  
*hageni* Eaton, 1885: 253. Renamed  
*brunnea* (Hagen, 1875: 581), not Rambur, 1842: 298. California  
*doddsi* McDunnough, 1926: 196. Alberta  
*impersonata* (McDunnough, 1925: 191). Quebec  
*jejuna* Eaton, 1885: 252. Ontario  
*fusca* (Walker, 1853: 568), not Burmeister, 1839: 800. Ontario  
*morrisoni* (Banks, 1924: 424). Nevada  
*petulans* (Seemann, 1927: 42). California  
*pellucida* Daggy, 1945: 383. Minnesota  
*robusta* Dodds, 1923: 103. Colorado  
*rubicunda* Traver, 1937: 46. North Carolina  
*sanguinea* Ide, 1954: 349. Ontario  
*uhari* Traver, 1933: 165. North Carolina  
*undulata* (Banks, 1924: 425). New Mexico  
*virilis* McDunnough, 1934: 187. British Columbia

*Stenonema* Traver, 1933: 173.

*alabamae* Traver, 1937: 79. Alabama  
*annexum* Traver, 1933: 179. North Carolina  
*areion* Burks, 1953: 163. Illinois  
*ares* Burks, 1953: 170. Illinois

- bipunctatum (McDunnough, 1926: 191). Ontario  
 candidum Traver, 1935: 308. Ohio  
 carolina (Banks, 1914: 616). North Carolina  
 exiguum Traver, 1933: 201. North Carolina  
 femoratum femoratum (Say, 1823: 162). Ohio  
 femoratum scitulum Traver, 1935: 330. Oklahoma  
 femoratum tripunctatum (Banks, 1910: 199). Wisconsin  
     *birdi* Traver, 1935: 306. Oklahoma  
 fuscum (Clemens, 1913: 254). Ontario  
 gildersleevei Traver, 1935: 315. Ohio  
 integrum (McDunnough, 1924: 9). Illinois  
     *bellum* Traver, 1933: 202. North Carolina  
     *wabasha* Daggy, 1945: 378. Minnesota  
 interpunctatum canadense (Walker, 1853: 569). Ontario  
     *ohioense* Traver, 1935: 322. Ohio  
 interpunctatum frontale (Banks, 1910: 199). Massachusetts  
     *conjunctum* Traver, 1935: 309. Ohio  
     *majus* Traver, 1935: 320. New York  
     *proximum* Traver, 1935: 325. New York  
 interpunctatum heterotarsale McDunnough, 1933: 42. Quebec  
 interpunctatum interpunctatum (Say, 1839: 41). Ontario  
     *flaveola* Pictet, 1843: 186. North America  
     *pallidum* Traver, 1933: 181. North Carolina  
     *affine* Traver, 1933: 184. North Carolina  
 ithaca (Clemens and Leonard, 1925: 17). New York  
 lepton Burks, 1946: 614. Illinois  
 luteum (Clemens, 1913: 252). Ontario  
 mediopunctatum (McDunnough, 1926: 191). Ontario  
 metriotes Burks, 1953: 174. Illinois  
 minnetonka Daggy, 1945: 376. Minnesota  
 modestum (Banks, 1910: 202). District of Columbia  
 nepotellum McDunnough, 1933: 20. Quebec  
 pudicum (Hagen, 1861: 39). District of Columbia  
 pulchellum (Walsh, 1862: 375). Illinois  
 rubromaculatum (Clemens, 1913: 256). Ontario  
 rubrum (McDunnough, 1926: 192). Quebec  
 smithae Traver, 1937: 77. Alabama  
 terminatum (Walsh, 1862: 376). Illinois  
     *placitum* (Banks, 1910: 199). New York  
 varium Traver, 1933: 192. North Carolina  
 vicarium (Walker, 1853: 565). North America  
     *tesselata* (Walker, 1853: 566). Nova Scotia  
     *rivulicolus* (McDunnough, 1933: 40). Quebec

SUBFAMILY ANEPEORINAE

*Anepeorus* McDunnough, 1925: 190.

- rusticus McDunnough, 1925: 190. Saskatchewan  
 simplex (Walsh, 1863: 204). Illinois

## SUBFAMILY ARTHROPLEINAE

Arthroplea Bengtsson, 1908: 239.

*bipunctata* (McDunnough, 1924: 76). Maine

## SUBFAMILY PSEUDIRONINAE

Pseudiron McDunnough, 1931: 91.

*centralis* McDunnough, 1931: 91. Kansas

*meridionalis* Traver, 1935: 437. Georgia

## Family AMETROPODIDAE

## SUBFAMILY AMETROPODINAE

Ametropus Albarda, 1887: 129.

*albrighti* Traver, 1935: 431. New Mexico

*neavei* McDunnough, 1928: 9. Alberta

## SUBFAMILY METRETOPODINAE

Metretopus Eaton, 1901: 253.

*borealis* Eaton, 1871: 137. Norway

*norvegicus* Eaton, 1901: 254. Norway

Siphloplecton Clemens, 1915: 258.

*basale* (Walker, 1853: 565). Manitoba

*flexus* (Clemens, 1913: 338). Ontario

*costalense* Spieth, 1938: 1. Virginia

*interlineatum* (Walsh, 1863: 190). Illinois

*signatum* Traver, 1932: 186. North Carolina

*speciosum* Traver, 1932: 191. Georgia

## Superfamily LEPTOPHLEBIOIDEA

## Family LEPTOPHLEBIIDAE

## SUBFAMILY LEPOPHLEBIINAE

Choroterpes Eaton, 1881: 194.

*albiannulata* McDunnough, 1924: 221. Alberta

*basalis* (Banks, 1900: 248). Pennsylvania

*ferruginea* Traver, 1934: 205. New York

*fusca* Spieth, 1938: 4. Ontario

*hubbeli* Berner, 1946: 65. Florida

*inornata* Eaton, 1892: 6. Mexico

*manita* Traver, 1934: 203. Texas

*oklahoma* Traver, 1934: 204. Oklahoma

*terratoma* Seemann, 1927: 46. California

Habrophlebia Eaton, 1881: 195.

*pusilla* Traver, 1932: 118. North Carolina

*vibrans* Needham, 1908: 192. New York

*jocosa* Banks, 1914: 614. North Carolina

## Habrophlebiodes Ulmer, 1920: 39.

- americana* (Banks, 1903: 235). New Jersey  
*betteni* (Needham, 1908: 194). New York  
*annulata* Traver, 1934: 199. Oklahoma  
*brunneipennis* Berner, 1946: 61. Florida

## Leptophlebia Westwood, 1840: 31.

- sg. Leptophlebia, sensu strictu.  
*johnsoni* McDunnough, 1924: 73. New Hampshire  
*gracilis* (Traver, 1932: 133). North Carolina
- sg. Blasturus Eaton, 1881: 193.  
*austrina* (Traver, 1932: 129). North Carolina  
*collina* (Traver, 1932: 124). North Carolina  
*cupida* (Say, 1823: 163). Ohio  
*hebes* (Walker, 1853: 538). Newfoundland  
*concinna* (Walker, 1853: 553). Nova Scotia  
*pallipes* (Walker, 1853: 553). Nova Scotia  
*ignava* (Hagen, 1861: 47). Newfoundland  
*grandis* (Traver, 1932: 127). North Carolina  
*gravastella* (Eaton, 1884: 102). Montana  
*intermedia* (Traver, 1932: 136). North Carolina  
*nebulosa* (Walker, 1853: 554). Ontario  
*odonatus* (Walsh, 1862: 372). Illinois  
*pacifica* (McDunnough, 1933: 155). Oregon  
*vibex* (Traver, 1934: 197). Oregon

## Paraleptophlebia Lestage, 1917: 340.

- adoptiva* (McDunnough, 1929: 169). Quebec  
*assimilis* (Banks, 1914: 614). North Carolina  
*associata* (McDunnough, 1924: 221). California  
*compar* Traver, 1934: 193. California  
*bicornuta* (McDunnough, 1926: 299). Alberta  
*bradleyi* (Needham, 1932: 274). Georgia  
*brunneipennis* (McDunnough, 1924: 221). Washington  
*cachea* Day, 1954: 22. California  
*californica* Traver, 1934: 195. California  
*clara* (McDunnough, 1933: 155). California  
*debilis* (Walker, 1853: 569). Nova Scotia  
*separata* (Ulmer, 1920: 27). Renamed unnecessarily  
*falcula* Traver, 1934: 190. Oregon  
*georgiana* Traver, 1934: 191. Georgia  
*gregalis* (Eaton, 1884: 98). Oregon  
*invalida* (McDunnough, 1926: 297). British Columbia  
*guttata* (McDunnough, 1924: 95). Quebec  
*henela* Day, 1952: 17. California  
*heteronea* (McDunnough, 1924: 93). Alberta  
*jeanae* Berner, 1955: 245. Alabama

*memorialis* Eaton, 1884: 98. Renamed  
*pallipes* (Hagen, 1875: 582) not Walker, 1853: 553. California  
*moerens* (McDunnough, 1924: 94). Quebec  
*mollis* (Eaton, 1871: 88). New York  
*ontario* (McDunnough, 1926: 299). Ontario  
*packi* (Needham, 1927: 45). Utah  
*placeri* Mayo, 1939: 152. California  
*praepedita* (Eaton, 1884: 99). Massachusetts  
*quisquilia* Day, 1952: 21. California  
*rufivenosa* (Eaton, 1884: 99). Oregon  
*sculleni* Traver, 1934: 189. Oregon  
*sticta* Burks, 1953: 92. Illinois  
*strigula* (McDunnough, 1932: 209). Ontario  
*swannanoa* (Traver, 1932: 113). North Carolina  
*temporalis* (McDunnough, 1926: 297). British Columbia  
*vaciva* (Eaton, 1884: 97). Oregon  
*volitans* (McDunnough, 1924: 95). Quebec  
*zayante* Day, 1952: 20. California

*Thraulodes* Ulmer, 1920: 33.

*arizonicus* McDunnough, 1942: 117. Arizona  
*speciosus* Traver, 1934: 201. Arizona

*Traverella* Edmunds, 1948: 141.

*albertana* (McDunnough, 1931: 82). Alberta  
*presidiana* (Traver, 1934: 199). Texas

#### Family EPHEMERELLIDAE

##### SUBFAMILY EPHEMERELLINAE

*Ephemerella* Walsh, 1862: 377.

sg. *Ephemerella*, sensu strictu.

*argo* Burks, 1949: 232. Indiana  
*aurivillii* (Bengtsson, 1908: 243). Sweden  
*aroni* Eaton, 1908: 149. Finland  
*norda* McDunnough, 1924: 223. Alberta  
*concinata* Traver, 1934: 219. Montana  
*berneri* Allen and Edmunds, 1958: 224. Georgia  
*catawba* Traver, 1932: 153. North Carolina  
*choctawhatchee* Berner, 1946: 71. Florida  
*dorothea* Needham, 1908: 190. New York  
*euterpe* Traver, 1934: 213. California  
*excrucians* Walsh, 1862: 377. Illinois  
*semiflava* McDunnough, 1926: 300. Ontario  
*fratercula* McDunnough, 1925: 213. Quebec  
*inconstans* Traver, 1932: 149. North Carolina  
*inermis* Eaton, 1884: 127. Colorado

- infrequens* McDunnough, 1924: 223. Alberta  
*invaria* (Walker, 1853: 568). Ontario  
*maculata* Traver, 1934: 216. California  
*mollita* Seemann, 1927: 44. California  
*needhami* McDunnough, 1925: 171. Quebec  
*ora* Burks, 1949: 235. Illinois  
*rotunda* Morgan, 1911: 113. New York  
     *vernalis* Banks, 1914: 614. North Carolina  
     *feminina* Needham, 1924: 309. New York  
*septentrionalis* McDunnough, 1925: 171. Ontario  
*subvaria* McDunnough, 1931: 84. Quebec  
 sg. *Serratella* Edmunds, 1959: 544.  
     *carolina* Berner and Allen, 1961: 150. North Carolina  
     *cognata* Traver, 1934: 231. California  
     *deficiens* Morgan, 1911: 111. New York  
         *atrescens* McDunnough, 1925: 43. Ontario  
     *frisoni* McDunnough, 1927: 10. Illinois  
     *levis* Day, 1954: 15. California  
     *micheneri* Traver, 1934: 227. California  
     *molita* McDunnough 1930: 57. Quebec  
     *serrata* Morgan, 1911: 109. New York  
     *serratoides* McDunnough, 1931: 83. Quebec  
     *sordida* McDonough, 1925: 42. Quebec  
     *spiculosa* Berner and Allen, 1961: 152. Tennessee  
     *teresa* Traver, 1934: 230. California  
     *tibialis* McDunnough, 1924: 224. Alberta  
         *angusta* Traver, 1934: 211. Utah  
 sg. *Drunella* Needham, 1905: 42.  
     *alleghehiensis* Traver, 1934: 221. West Virginia  
     *autumnalis* McDunnough, 1934: 158. British Columbia  
     *cherokee* Traver, 1937: 71. North Carolina  
     *coloradensis* Dodds, 1923: 97. Colorado  
     *conestee* Traver, 1932: 168. North Carolina  
     *cornuta* Morgan, 1911: 114. New York  
     *cornutella* McDunnough, 1931: 82. Quebec  
     *depressa* Ide, 1930: 212. Ontario  
     *doddsi* Needham, 1927: 111. Utah  
     *flavilinea* McDunnough, 1926: 188. Alberta  
     *flavitineta* McDunnough, 1934: 155. Oregon  
     *glacialis* Traver, 1934: 207. Montana  
     *glacialis carsona* Day, 1952: 32. California  
     *grandis* Eaton, 1884: 128. Colorado  
     *ingens* McDunnough, 1934: 154. British Columbia  
     *lapidula* McDunnough, 1935: 96. Wyoming  
     *lata* Morgan, 1911: 112. Maine  
         *inflata* McDunnough, 1926: 187. Quebec

- longicornis* Traver, 1932: 164. North Carolina  
*pelosa* Mayo, 1951: 121. California  
*proserpina* Traver, 1934: 223. California  
*yosemite* Traver, 1934: 225. California  
*sierra* Mayo, 1952: 96. California  
*spinifera* Needham, 1927: 110. Montana  
*tuberculata* Morgan, 1911: 112. New York  
*walkeri* Eaton, 1884: 129. Renamed.  
*bispina* Needham, 1905: 43. Indiana  
*fuscata* (Walker 1853: 570), not Stephens, 1853: 66. Ontario  
*wayah* Traver, 1932: 172. North Carolina  
*wilsoni* Mayo, 1952: 100. British Columbia  
 sg. *Caudatella* Edmunds, 1959: 546.  
*cascadia* Allen and Edmunds, 1961: 611. Oregon  
*edmundsi* Allen, 1959: 59. Oregon  
*heterocaudata californica* Allen and Edmunds, 1961: 607. California  
*heterocaudata circia* Allen and Edmunds, 1961: 607. Oregon  
*heterocaudata heterocaudata* McDunnough, 1929: 170. Wyoming  
*columbiella* McDunnough, 1935: 97. British Columbia  
*hystrix* Traver, 1934: 212. Montana  
*spinosa* Mayo, 1951: 122, not Morgan, 1911: 94. California  
*jacobi* McDunnough, 1939: 49. British Columbia  
*orestes* Allen and Edmunds, 1961: 611. Oregon  
 sg. *Timpanoga* Needham, 1927: 108.  
*hecuba hecuba* Eaton, 1884: pl. 40. Colorado  
*hecuba pacifica* Allen and Edmunds, 1959: 57. Oregon  
 sg. *Attenuatella* Edmunds, 1959: 546.  
*attenuata* McDunnough, 1925: 42. Quebec  
*hirsuta* Berner, 1946: 70. Florida  
*delantala* Mayo, 1952: 94. California  
*margarita* Needham, 1927: 114. Utah  
*soquele* Day, 1954: 18. California  
 sg. *Dannella* Edmunds, 1959: 546.  
*lita* Burks, 1949: 235. Illinois  
*simplex* McDunnough, 1925: 41. Quebec  
 sg. *Eurylophella* Tiensuu, 1935: 20.  
*aestiva* McDunnough, 1931: 64. Quebec  
*bicolor* Clemens, 1913: 336. Ontario  
*bicoloroides* McDunnough, 1938: 23. Nova Scotia  
*coxalis* McDunnough, 1926: 186. Quebec  
*doris* Traver, 1934: 208. North Carolina  
*funeralis* McDunnough, 1925: 210. Quebec  
*lodi* Mayo, 1952: 179. California  
*lutulenta* Clemens, 1913: 335. Ontario  
*lineata* Clemens, 1913: 336. Ontario  
*minimella* McDunnough, 1931: 63. Quebec

prudentalis McDunnough, 1931: 40. Quebec  
 temporalis McDunnough, 1924: 73. Ontario  
 trilineata Berner, 1946: 67. Florida  
 verisimilis McDunnough, 1930: 57. Quebec

#### Family TRICORYTHIDAE

##### SUBFAMILY LEPTOHYPHINAE

Leptohyphes Eaton, 1882: 208.

species? Burks, 1953: 55.

Tricorythodes Ulmer, 1920: 51.

albilineatus Berner, 1946: 72. Florida  
 allectus (Needham, 1905: 47). New York  
 atratus (McDunnough, 1923: 39). Quebec  
 explicatus (Eaton, 1892: 11). Mexico  
 fallax Traver, 1935: 634. California  
 fictus Traver, 1935: 635. Oklahoma  
 minutus Traver, 1935: 636. Utah  
*fallacina* McDunnough, 1939: 53. British Columbia  
 peridius Burks, 1953: 48. Illinois  
 stygiatus McDunnough, 1939: 267. Quebec  
 texanus Traver, 1935: 638. Texas

#### Superfamily CAENOIDEA

##### Family CAENIDAE

##### SUBFAMILY CAENINAE

Brachycercus Curtis, 1834: 122.

flavus Traver, 1935: 640. Louisiana  
 lacustris (Needham, 1918: 249). New York  
*pallidus* (Ide, 1930: 218), not Tshernova, 1928: 114. Ontario  
*idei* Lestage, 1931: 119, n.n. for *pallidus* Ide.  
 maculatus Berner, 1946: 76. Florida  
 nitidus (Traver, 1932: 139). North Carolina  
 prudens (McDunnough, 1931: 264). Saskatchewan

Caenis Stephens, 1835: 61.

amica Hagen, 1861: 55. Pennsylvania  
 anceps Traver, 1935: 645. New York  
 delicata Traver, 1935: 647. Oklahoma  
 diminuta Walker, 1853: 584. Florida  
 forcipata McDunnough, 1931: 262. Ontario  
 gigas Burks, 1953: 53. Illinois  
 hilaris (Say, 1839: 43). Indiana  
 jocosa McDunnough, 1931: 260. Ohio  
 latipennis Banks, 1907: 14. Washington



*punctata* McDunnough, 1931: 259. Quebec  
*ridens* McDunnough, 1931: 256. Kansas  
*simulans* McDunnough, 1931: 263. Ontario  
*tardata* McDunnough, 1931: 260. Alberta

Family NEOPHEMERIDAE

SUBFAMILY NEOEPHEMERINAE

*Neophemera* McDunnough, 1925: 168.  
*bicolor* McDunnough, 1925: 168. Quebec  
*compressa* Berner, 1956: 34. Florida  
*purpurea* (Traver, 1931: 105). North Carolina  
*youngi* Berner, 1953: 145. Georgia

Superfamily PROSOPISTOMATOIDEA

Family BAETISCIDAE

SUBFAMILY BAETISCINAE

*Baetisca* Walsh, 1862: 378.  
*bajkovi* Neave, 1934: 166. Manitoba  
*callosa* Traver, 1931: 57. West Virginia  
*carolina* Traver, 1931: 51. North Carolina  
*thomsonae* Traver, 1937: 61. North Carolina  
*columbiana* Edmunds, 1960: 102. Washington  
*escambiensis* Berner, 1955: 2. Florida  
*gibbera* Berner, 1955: 11. Florida  
*lacustris* McDunnough, 1932: 214. Ontario  
*laurentina* McDunnough, 1932: 214. Quebec  
*obesa* (Say, 1839: 43). Indiana  
*rogersi* Berner, 1940: 156. Florida  
*rubescens* (Provancher, 1878: 127). Quebec

Superfamily EPHEMEROIDEA

Family POTAMANTHIDAE

SUBFAMILY POTAMANTHINAE

*Potamanthus* Pictet, 1845: 197.  
*diaphanus* Needham, 1908: 193. New York  
*distinctus* Traver, 1935: 280. Ohio  
*inequalis* Needham, 1909: 74. New York  
*myops* (Walsh, 1863: 207). Illinois  
*medius* Banks, 1908: 259. Kansas  
*neglectus* Traver, 1935: 282. New York  
*rufous* Argo, 1927: 323. New York  
*verticis* (Say, 1839: 42). Indiana  
*flaveola* (Walsh, 1862: 377). Illinois  
*walkeri* Ide, 1935: 119. Ontario

## Family BEHNINGIIDAE

## SUBFAMILY BEHNINGIINAE

*Dolania* Edmunds and Traver, 1959: 46.

*americana* Edmunds and Traver, 1959: 46. South Carolina

## Family EPHEMERIDAE

## SUBFAMILY EPHEMERINAE

*Ephemera* Linnaeus, 1758: 546.

*blanda* Traver, 1932: 104. North Carolina  
*compar* Hagen, 1875: 578. Colorado  
*guttulata* Pictet, 1843: 135. North America  
*simulans* Walker, 1853: 536. Quebec  
*natata* (Walker, 1853: 551). Ontario  
*decora* Walker, 1853: 537. North America  
*traverae* Spieth, 1938: 5. Oklahoma  
*triplex* Traver, 1935: 253. West Virginia  
*varia* Eaton, 1883: 69. Maine

*Hexagenia* Walsh, 1863: 197.

*atrocaudata* McDunnough, 1924: 92. Ontario  
*bilineata* (Say, 1824: 303). Minnesota  
*limbata limbata* (Serville, in Guerin-Meneville, 1829: 34).  
*variabilis* Eaton, 1883: 55.  
*limbata californica* Upholt, 1937: 85. California  
*limbata occulta* (Walker, 1853: 551). Ontario  
*mingo* Traver, 1931: 597. West Virginia  
*limbata venusta* Eaton, 1883: 54. Texas  
*pallens* Traver, 1935: 271. Kansas  
*limbata viridescens* (Walker, 1853: 551). Ontario  
*angulata* Walker, 1853: 564. North America  
*munda affiliata* McDunnough, 1927: 119. Ontario  
*munda elegans* Traver, 1931: 594. North Carolina  
*weewa* Traver, 1931: 605. Florida  
*kanuga* Traver, 1937: 29. North Carolina  
*munda marilandica* Traver, 1931: 599. Maryland  
*carolina* Traver, 1931: 601. North Carolina  
*rosacea* Traver, 1931: 607. North Carolina  
*munda munda* Eaton, 1883: 53. North Carolina  
*munda orlando* Traver, 1931: 608. Florida  
*recurvata* Morgan, 1913: 395. New York  
*rigida* McDunnough, 1924: 90. Ontario

*Pentagenia* Walsh, 1863: 196.

*robusta* McDunnough, 1926: 185. Ohio  
*vittigera* (Walsh, 1862: 373). Illinois  
*quadripunctata* Walsh, 1863: 198. Illinois

## Family POLYMITARCIDAE

## SUBFAMILY POLYMITARCINAE

Ephoron Williamson, 1802: 71.

album (Say, 1825: 305). Manitoba

leukon Williamson, 1802: 71. New Jersey

## SUBFAMILY CAMPSURINAE

Campsurus Eaton, 1868: 83.

decoloratus (Hagen, 1861: 43). Mexico

Tortopus Needham and Murphy, 1924: 23.

circumflus Ulmer, 1942: 110. Texas

incertus (Traver, 1935 :286).

primus (McDunnough, 1924: 7). Illinois

*manitobensis* (Ide, 1941: 155). Manitoba

puella (Pictet, 1843: 145), *nomen dubium*. Louisiana

## GEOGRAPHICAL LIST OF TYPE LOCALITIES

## ALABAMA

- Paraleptophlebia jeanae* Berner. April 13; Sumter Co., 12 mi. W. Demopolis on U.S. Highway No. 80.  
*Stenonema alabamae* Traver. July 4; Sheffield.  
*Stenonema smithae* Traver. July 1; Spencers Mill, Tuscaloosa.

## ALBERTA

- Ameletus alticolus* McDunnough. June 23; Blairmore.  
*Ameletus celer* McDunnough. June 25; Glacier Creek, Crows Nest Pass.  
*Ameletus similior* McDunnough. September 4; Jacques Lake, Jasper Park.  
*Ameletus sparsatus* McDunnough. July 15; Blairmore.  
*Ameletus validus* McDunnough. October 1; Banff.  
*Ametropus neavei* McDunnough. July 25; Old Fort Pt., Athabasca River, Jasper Park.  
*Baetis akataleptos* McDunnough. August 14; Medicine Hat.  
*Caenis tardata* McDunnough. August 5; Lethbridge.  
*Centroptilum bifurcatum* McDunnough. July 23; Waterton Lakes.  
*Centroptilum cibturbatum* McDunnough. August 20; Cameron Lake, Waterton Lakes.  
*Centroptilum quaesitum* McDunnough. June 17; Medicine Hat.  
*Choroterpes albiannulata* McDunnough. August 23; Medicine Hat.  
*Cinygma lyriformis* McDunnough. July 30; Banff.  
*Cinygmula confusa* McDunnough. August 1; Moraine Lake.  
*Cinygmula hyalina* McDunnough. August 6; Moraine Lake.  
*Cinygmula tarda* McDunnough. August 29; Banff.  
*Cloeon implicatum* McDunnough. July 22; Waterton Lakes.  
*Cloeon inanum* McDunnough. July 23; Waterton Lakes.  
*Cloeon ingens* McDunnough. August 3; Nordegg.  
*Epeorus deceptivus* McDunnough. September 5; Banff.  
*Epeorus albertae* McDunnough. July 24; Waterton Lakes.  
*Epeorus grandis* McDunnough. July 23; Waterton Lakes.  
*Ephemerella flavilinea* McDunnough. July 26; Waterton Lakes.  
*Ephemerella infrequens* McDunnough. July 14; Waterton Lakes.  
*Ephemerella norda* McDunnough. July 14; Nordegg.  
*Ephemerella tibialis* McDunnough. September 19; Banff.  
*Heptagenia adaequata* McDunnough. June 25; Cowley.  
*Heptagenia simplicioides* McDunnough. July 13; Waterton Lakes.  
*Heptagenia solitaria* McDunnough. July 7; Waterton Lakes.  
*Isonychia sicca campestris* McDunnough. August 6; Medicine Hat.  
*Paraleptophlebia bicornuta* McDunnough. August 10; Bearberry Creek, near Sondre.  
*Paraleptophlebia heteronea* McDunnough. July 25; Waterton Lakes.  
*Pseudocloeon futile* McDunnough. August 18; Milk River.  
*Pseudocloeon rubrolaterale* McDunnough. September 13; Milk River.  
*Pseudocloeon turbidum* McDunnough. July 24; Waterton Lakes.

- Rhithrogena doddsi* McDunnough. July 6; Waterton Lakes.  
*Siphonurus autumnalis* McDunnough. August 28; Blairmore.  
*Siphonurus inflatus* McDunnough. August 31; Cameron Lake, Waterton Lakes.  
*Siphonurus phyllis* McDunnough. July 26; Banff.  
*Traverella albertana* McDunnough. August 22; Medicine Hat.

## ARIZONA

- Ameletus falsus* McDunnough. June 14; Greer.  
*Baetis erebus* Traver. May 3; Santa Catalina Mts., Bear Canyon.  
*Callibaetis signatus* Banks. July 24; Williams.  
*Cinygmula par* Eaton. No date; "Arizona."  
*Isonychia intermedia* Eaton. No date; "Arizona."  
*Thraulodes arizonicus* McDunnough. June 15; Oak Creek Canyon, near Flagstaff.  
*Thraulodes speciosus* Traver. July 3; Rustler Park, Chiracahua Mts.

## ARKANSAS

- Siphonurus marshalli* Traver. April 6; Imboden.

## BRITISH COLUMBIA

- Ameletus celeroides* McDunnough. June 22; Penticton.  
*Ameletus connectina* McDunnough. August 6; Blue Lake, W. of Lytton.  
*Ameletus connectus* McDunnough. May 5; Shingle Creek, Penticton.  
*Ameletus monta* Mayo. August 29; McGuigan Creek, Paine Mtn. near New Denver.  
*Ameletus querulus* McDunnough. July 20; Trepanier Creek, Peachland.  
*Ameletus suffusus* McDunnough. May 3; Shingle Creek, Penticton.  
*Ameletus tuberculatus* McDunnough. August 4; Blue Lake, W. of Lytton.  
*Ameletus vancouverensis* McDunnough. May 1; Courtney.  
*Ameletus vernalis* McDunnough. April 27; Oliver.  
*Baetis insignificans* McDunnough. June 28; Seton Lake Creek, Lillooet.  
*Baetis jesmondensis* McDunnough. September 12; Jesmond, Porcupine Creek.  
*Baetis persecuta* McDunnough. August 7; Kwieek Cr., near Lytton.  
*Cinygmula gartrelli* McDunnough. May 23; Deep Creek, Peachland.  
*Cinygmula kootenai* McDunnough. June 13; Nixon Creek, Kootenay River, Kootenay National Park.  
*Cinygmula uniformis* McDunnough. October 4; Shingle Creek, Penticton.  
*Ephemerella autumnalis* McDunnough. September 8; Shingle Creek Road, Keremeos.  
*Ephemerella columbiella* McDunnough. July 4; Trepanier Creek, Peachland.  
*Ephemerella ingens* McDunnough. June 5; Oliver.  
*Ephemerella jacobi* McDunnough. August 7; Kwieek Cr., near Lytton.  
*Ephemerella wilsoni* Mayo. September 3; Wilson Creek, near New Denver.  
*Epeorus dulciana* McDunnough. July 3; Trepanier Creek, Peachland.  
*Epeorus flavipennis* Traver. May 5; Summerland.  
*Paraleptophlebia invalida* McDunnough. June 23; Departure Bay.  
*Paraleptophlebia temporalis* McDunnough. June 11; Alta Lake, Mons.

*Parameletus columbiae* McDunnough. August 10; Dunn Peak, N. Thompson River.

*Rhithrogena virilis* McDunnough. June 27; Faulder, near Summerland.

*Siphonurus columbianus* McDunnough. May 1; Agassiz.

#### CALIFORNIA

*Ameletus amator* Mayo. May 23; Dry Creek near Dry Town.

*Ameletus dissitus* Eaton. No date; "California."

*Ameletus facilis* Day. April 22; Sage Creek, Napa County.

*Ameletus shepherdii* Traver. No date; Waddell Creek, Rancho del Oso.

*Apobaetis indepressus* Day. August 14; Stanislaus Co., Tuolumne River, 6 mi. east of Modesto.

*Baetis adonis* Traver. June 3; San Gabriel Mts.

*Baetis alius* Day. October 15; Sonoma Co., Russian River, near Geyserville.

*Baetis devinctus* Traver. No date; Waddell Creek, Rancho del Oso.

*Baetis diabolus* Day. April 12; Diablo Mt., Contra Costa County.

*Baetis leechi* Day. September 24; Conn Creek, near Rutherford, Napa County.

*Baetis palisadi* Mayo. July 5; Big Pine Creek, Sierra Nevada Mtns., Inyo Co.

*Baetis piscatoris* Traver. No date; Waddell Creek, Rancho del Oso.

*Baetis sulfurosus* Day. August 24; Sulphur Creek, Sonoma County.

*Callibaetis californicus* Banks. No date; Southern California.

*Callibaetis carolus* Traver. August 24; Big Bear Lake, San Bernardino Mts.

*Callibaetis hebes* Upholt. October 6; Alpine Dam, Marin Co.

*Callibaetis pacificus* Seemann. No date; Andreas and Palm Canyons on east side of San Jacinto Mtns., Tahquitz Valley.

*Callibaetis traverae* Upholt. No date; Kingsburg, Fresno County.

*Centroptilum asperatum* Traver. August 29; Big Bear Lake, San Bernardino Mts.

*Centroptilum venosum* Traver. June 24; San Gabriel Canyon, San Gabriel Mts.

*Choroterpes terratoma* Seemann. March 25; Andreas Canyon, near Palm Springs.

*Cinygmula tioga* Mayo. August 21; Leevining Creek, Sierra Nevada Mtns., Mono Co.

*Edmundsius agilis* Day. July 20; Willow Creek, Madera County.

*Epeorus lagunitas* Traver. July 1; Lake Lagunitas.

*Epeorus sancta-gabriel* Traver. June 7; San Gabriel Mts.

*Epeorus californicus* Banks. No date; Claremont.

*Epeorus lepidus* Traver. May 10; Silver Canyon, White Mts.

*Ephemerella cognata* Traver. No date; Waddell Creek, Rancho del Oso.

*Ephemerella delantala* Mayo. June 23; Martis Creek near Truckee, Placer Co.

*Ephemerella euterpe* Traver. No date; Waddell Creek, Rancho del Oso.

*Ephemerella glacialis carsona* Day. July 3; Hangmans Bridge, East Fork Carson River, Alpine County.

*Ephemerella heterocaudata californica* Allen and Edmunds. June 19; Chilacoot Creek 1 mi. above Bass Lake.

*Ephemerella levis* Day. June 14; Capell Creek, Napa County.

- Ephemerella lodi* Mayo. June 2; Dry Creek near Dry Town.  
*Ephemerella maculata* Traver. June 9; San Gabriel Canyon, San Gabriel Mts.  
*Ephemerella micheneri* Traver. June 25; San Gabriel Canyon,  
San Gabriel Mts.  
*Ephemerella mollitia* Seemann. No date; San Antonio, San Dimas and Tah-  
quitz Valley and Cucamonga Canyons, March 22, 30, and September 16.  
*Ephemerella pelosa* Mayo. June 15; North Fork Creek above Bass Lake,  
Fresno Co.  
*Ephemerella proserpina* Traver. April 2; Mill Creek Canyon,  
San Bernardino Mts.  
*Ephemerella sierra* Mayo. August 28; South Fork Bishop Creek, Inyo Co.  
*Ephemerella soquele* Day. July 14; Willow Creek, Madera County.  
*Ephemerella spinosa* Mayo. July 4; South Fork Bishop Creek, Inyo County.  
*Ephemerella teresa* Traver. May 29; San Antonio Canyon.  
*Ephemerella yosemite* Traver. February 8; Merced River, Yosemite Valley.  
*Heptagenia kennedyi* McDunnough. No date; Calistoga, Napa Co.  
*Heptagenia rubroventris* Traver. June 28; San Gabriel Canyon,  
San Gabriel Mts.  
*Hexagenia limbata californica* Upholt. June 30; Kingsburg, Fresno Co.  
*Isonychia velma* Needham. December; Putah Creek near Maticello.  
*Paracloeodes abditus* Day. August 7; Tuolumne River, Stanislaus County,  
about 3 mi. east Shiloh Bridge.  
*Paraleptophlebia associata* McDunnough. No date; Frys Harbor, Santa Cruz.  
*Paraleptophlebia cachea* Day. April 19; Cache Creek, Yolo Co., 6 mi.  
north Rumsey.  
*Paraleptophlebia californica* Traver. No date; Waddell Creek,  
Rancho del Oso.  
*Paraleptophlebia clara* McDunnough. No date; Los Gatos.  
*Paraleptophlebia compar* Traver. No date; Waddell Creek, Rancho del Oso.  
*Paraleptophlebia helena* Day. October; Mill Creek, Venado Road, Sonoma Co.  
*Paraleptophlebia memorialis* Eaton. No date; Truckee, Sierra Nevada Mts.  
*Paraleptophlebia pallipes* Hagen. No date; Truckee, Sierra Nevada Mts.  
*Paraleptophlebia placeri* Mayo. May 12; Dry Creek near Dry Town.  
*Paraleptophlebia quisquilia* Day. May 28; Middle Creek, Lake County.  
*Paraleptophlebia zayante* Day. October; Zayante Creek, Santa Cruz County.  
*Rhithrogena brunnea* Hagen. No date; Truckee.  
*Rhithrogena decora* Day. July 12; Hat Creek, Shasta County.  
*Rhithrogena petulans* Seemann. San Dimas, Cucamonga, Eveys and Palmer.  
*Siphonurus maria* Mayo. May 26; Jesus Maria Creek, Jesus Maria  
*Siphonurus spectabilis* Traver. No date; Waddell Creek, Rancho del Oso.  
*Tricorythodes fallax* Traver. July; Waddell Creek, Rancho del Oso.

## COLORADO

- Ameletus aequivous* McDunnough. June 25; Gunnison River, near Almont,  
8,000 ft.  
*Ameletus subnotatus* Eaton. No date; "Colorado."  
*Ameletus velox* Dodds. July; Tolland.  
*Baetis bicaudatus* Dodds. August; Tolland.

*Baetis intermedius* Dodds. August; Tolland.  
*Baetis minimus* Dodds. August; Tolland.  
*Baetis moffatti* Dodds. August; Tolland.  
*Baetis parvus* Dodds. July; Tolland.  
*Baetis quilleri* Dodds. July; Boulder.  
*Baetis tricaudatus* Dodds. August; Tolland.  
*Callibaetis americanus* Banks. April; Clear Creek.  
*Callibaetis coloradensis* Banks. June; Durango.  
*Callibaetis doddsi* Traver. July; Tolland.  
*Callibaetis fuscus* Dodds. July; Tolland.  
*Callibaetis nigritus* Banks. May; Boulder.  
*Callibaetis pallidus* Banks. May; Boulder.  
*Cinygmula mimus* Eaton. No date; Manitou.  
*Cinygmula ramaleyi* Dodds. August; Tolland.  
*Cinygmula tollandi* Dodds. July; Tolland.  
*Epeorus longimanus* Eaton. No date; "Colorado."  
*Epeorus proprius* Traver. No date; probably South Boulder Valley.  
*Ephemera compar* Hagen. No date; Foot Hills.  
*Ephemerella coloradensis* Dodds. July; Tolland.  
*Ephemerella grandis* Eaton. No date; "Colorado."  
*Ephemerella hecuba* Eaton. No date; Manitou.  
*Ephemerella inermis* Eaton. No date; Arkansas Canyon, Denver.  
*Heptagenia coxalis* Banks. No date; Clear Creek.  
*Heptagenia elegantula* Eaton. No date; Arkansas Canyon.  
*Rhithrogena flavianula* McDunnough. June; Gunnison.  
*Rhithrogena robusta* Dodds. July 21; Tolland.  
*Siphonurus occidentalis* Eaton. No date; "Colorado."

#### DISTRICT OF COLUMBIA

*Baetis unicolor* Hagen. No date; Washington.  
*Cloeon vicinum*, Hagen. No date; Washington.  
*Stenonema modestum* Banks. September; Washington.  
*Stenonema pudicum* Hagen. No date; Washington.

#### FLORIDA

*Baetis spiethi* Berner. May 21; Alachua Co., Santa Fe River at Poe Springs.  
*Baetisca escambiensis* Berner. October 23; Escambia County, Escambia, River.  
*Baetisca gibbera* Berner. October 23; Escambia County, Escambia River.  
*Baetisca rogersi* Berner. March 17; Sand-bottom creek, 45 mi. S. of Riv. Junct., Gadsden Co.  
*Brachycercus maculatus* Berner. February 28; Alachua Co., Santa Fe River at Poe Springs.  
*Caenis diminuta* Walker. No date; St. Johns Bluff, E. Florida.  
*Callibaetis floridanus* Banks. No date; Biscayne Bay.  
*Centroptilum hobbsi* Berner. May 21; Alachua Co., Santa Fe River at Poe Springs.



- Centroptilum viridocularis* Berner. June 24; Alachua Co., Hatchet Creek.  
*Choroterpes hubbelsi* Berner. April 21; Alachua Co., Jerome Sink, 2.5 miles north of Newberry.  
*Ephemerella choctawhatchee* Berner. May 14; Alachua Co., Santa Fe River at Poe Springs.  
*Ephemerella hirsuta* Berner. May 31; Okaloosa Co., 5.1 miles west of Walton County line at Hwy. 10.  
*Ephemerella trilineata* Berner. April 2; Alachua Co., Santa Fe Lake.  
*Habrophlebiodes brunneipennis* Berner. April 18; Alachua Co., Devils Mill Hopper.  
*Hexagenia orlando* Traver. May 20; Orlando.  
*Hexagenia weewa* Traver. April 8; Chipola Lake, near Weewa-hitchka.  
*Neophemera compressa* Berner. March 14; Withlacoochee River.  
*Pseudocloeon alachua* Berner. April 12; Alachua Co., Blue Springs.  
*Pseudocloeon bimaculatus* Berner. July 1; Jackson Co., Blue Springs Creek at Marianna.  
*Tricorythodes albilineatus* Berner. May 14; Alachua Co., Santa Fe River at Poe Springs.

## GEORGIA

- Baetis ephippiatus* Traver. June 1; Mossy Creek, Ft. Valley.  
*Ephemerella berneri* Allen and Edmunds. April 21; Flat Shoals, Flint River, Concord, Pike Co.  
*Heptagenia dolosa* Traver. July 4; Chattahoochee River.  
*Homoeoneuria dolani* Edmunds, Berner and Traver. October 20; Savannah River.  
*Isonychia circe* Traver. August 8; Chattahoochee River.  
*Isonychia fattigi* Traver. May 25; Swamp Creek, Dalton.  
*Isonychia georgiae* McDunnough. July; Rabun Co.  
*Isonychia pictipes* Traver. May 31; Williamson Swamp Creek, Bartow.  
*Neophemera youngi* Berner. April 5; Decatur Co., Mosquito Creek.  
*Paraleptophlebia bradleyi* Needham. December 21; Billys Lake, Okefenokee Swamp.  
*Paraleptophlebia georgiana* Traver. June; Swamy Creek near Dalton.  
*Pseudiron meridionalis* Traver. No date; Chattahoochee River.  
*Pseudocloeon etowah* Traver. August 18; Etowah River, Rome.  
*Siphloplecton speciosum* Traver. April 16; Echeconee Creek.

## GUATEMALA

- Callibaetis montanus* Eaton. No date; Aceytuno plantation near Guatemala City.

## IDAHO

- Heptagenia rodocki* Traver. July 20; Lewiston.

ILLINOIS<sup>1</sup>

- Acanthametropus pecatonica* Burks. July 6; Sugar River,  $\frac{1}{4}$  mi. above mouth, near Harrison.

<sup>1</sup> All species described by Walsh were probably collected near Rock Island.

- Anepeorus simplex* Walsh. No date; "Illinois."  
*Baetis anachris* Burks. June 13; Havana, White Oak Creek near Natanzas Lake.  
*Baetis baeticatus* Burks. June 11; Wichert.  
*Baetis cleptis* Burks. September 15; Detroit.  
*Baetis elachistus* Burks. October 20; Duncans Mills, Spoon River.  
*Baetis harti* McDunnough. July 11; Urbana.  
*Baetis herodes* Burks. April 9; Herod, Gibbons Creek.  
*Baetis ochris* Burks. June 4; Richmond.  
*Baetis pallidulus* McDunnough. May 24; Muncie.  
*Baetis phyllis* Burks. April 16; Vandalia.  
*Baetis propinquus* Walsh. No date; "Illinois."  
*Caenis gigas* Burks. August 6; Giant City State Park.  
*Callibaetis furrugineus* Walsh. No date; "Illinois."  
*Callibaetis fluctuans* Walsh. No date; "Illinois."  
*Cloeon mendax* Walsh. No date; "Illinois."  
*Ephemerella consimilis* Walsh. No date; "Illinois."  
*Ephemerella excrucians* Walsh. No date; "Illinois."  
*Ephemerella frisoni* McDunnough. June 9; Oakwood.  
*Ephemerella lita* Burks. May 22; Oakwood.  
*Ephemerella ora* Burks. April 22; Mt. Carmel.  
*Heptagenia cruentata* Walsh. No date; "Illinois."  
*Heptagenia diabasia* Burks. June 29; Rockford.  
*Heptagenia flavescens* Walsh. No date; "Illinois."  
*Heptagenia maculipennis* Walsh. No date; "Illinois."  
*Heptagenia manifesta* Eaton. No date; Rock Island.  
*Heptagenia patoka* Burks. July 19; Patoka.  
*Isonychia sayi* Burks. No date; Rock Island.  
*Isonychia sicca sicca* Walsh. No date; Rock Island.  
*Leptophlebia odonatus* Walsh. No date; Rock Island.  
*Paraleptophlebia sticta* Burks. April; Watson.  
*Pentagenia quadripunctata* Walsh. No date; "Illinois."  
*Pentagenia vittigera* Walsh. No date; "Illinois."  
*Potamanthus flaveola* Walsh. No date; Illinois."  
*Potamanthus myops* Walsh. No date; "Illinois."  
*Pseudocloeon dubium* Walsh. No date; "Illinois."  
*Pseudocloeon myrsum* Burks. May 16; Eddyville, Lusk Creek.  
*Pseudocloeon veteris* McDunnough. May 13; Urbana.  
*Siphloplecton interlineatum* Walsh. No date; Rock Island.  
*Stenonema areion* Burks. June 25; Oakwood.  
*Stenonema ares* Burks. June 11; Rockford.  
*Stenonema integrum* McDunnough. August 27; Alton.  
*Stenonema lepton* Burks. June 22; Momence.  
*Stenonema metriotes* Burks. July 3; East Dubuque.  
*Stenonema pulchellum* Walsh. No date; "Illinois."

*Stenonema terminatum* Walsh. No date; "Illinois."  
*Tortopus primus* McDunnough. August 14; Grand Tower.  
*Tricorythodes peridius* Burks. August 6; Wilmington.

## INDIANA

*Baetisca obesa* Say. No date; "Indiana."  
*Caenis hilaris* Say. September 4; "Indiana."  
*Epeorus namatus* Burks. April 25; Leonard Springs, near Bloomington.  
*Ephemerella argo* Burks. May 7; White River, Rogers.  
*Ephemerella bispina* Needham. June 18; Elkhart.  
*Empheperella unicornis* Needham. June 18; Elkhart.  
*Homoeoneuria ammophila* Spieth. July 27; White River, Decker.  
*Isonychia arida* Say. No date; "Indiana."  
*Potamanthus verticis* Say. August; "Indiana."

## IOWA

*Centroptilum walshi* McDunnough. July 23; Clinton.  
*Heptagenia persimplex* McDunnough. June 22; Pleasant Valley,  
near Davenport.  
*Isonychia rufa* McDunnough. July 7; Davenport.

## KANSAS

*Caenis ridens* McDunnough. July; Lawrence.  
*Callibaetis centralis* Peters. October 21; Douglas Co., University of Kansas  
Natural History Reservation.  
*Hexagenia pallens* Traver. Summer; Manhattan.  
*Potamanthus medius* Banks. July; Douglas County.  
*Pseudiron centralis* McDunnough. June 26; Lawrence.

## LOUISIANA

*Brachycercus flavus* Traver. June 20; Sabine River Ferry.

## MAINE

*Arthroplea bipunctata* McDunnough. June 18; Wales.  
*Epeorus frisoni* Burks. August 26; Mt. Katahdin at Roaring Brooks.  
*Ephemera varia* Eaton. No date; Norway.  
*Ephemerella lata* Morgan. No date; Sandy River.

## MANITOBA

*Baetis dardanus* McDunnough. June 11; Aweme.  
*Baetis hudsonicus* Ide. July 22; Churchill.  
*Baetis spinosus* McDunnough. July 16; Darlingford.  
*Baetisca bajkovi* Neave. No date; Sturgeon Falls, Pigeon River, near Lake  
Winnipeg.  
*Callibaetis semicostatus* Banks. September 16; Stony Mtn.  
*Centroptilum infrequens* McDunnough. September 30; Aweme.  
*Ephoron album* Say. No date; Winnipeg.  
*Heptagenia inconspicua* McDunnough. June 14; Aweme.

*Heptagenia reversalis* McDunnough. June 22; Aweme.  
*Siphloplecton basale* Walker. No date; Lake Winnipeg.  
*Tortopus manitobensis* Ide. August 2; Assiniboine River, Cartier.

## MARYLAND

*Hexagenia munda marilandica* Traver. June 3; Conococheague Park,  
 Washington Co.

## MASSACHUSETTS

*Paraleptophlebia praepedita* Eaton. No date; Denham.  
*Siphonurus novangliae* McDunnough. June 17; Brookline.  
*Siphonurus rapidus* McDunnough. June 10; North Reading.  
*Siphonurus typicus* Eaton. No date; Denham.  
*Stenonema interpunctatum frontale* Banks. August; Middlesex Falls.

## MEXICO

*Campsurus decoloratus* Hagen. No date; Matamoras, Tamaulipas.  
*Choroterpes inornata* Eaton. No date; Northern Sonora.  
*Tricorythodes explicatus* Eaton. No date; Northern Sonora.

## MICHIGAN

*Baetis hiemalis* Leonard. October 3; Crawford County at Au Sable River.

## MINNESOTA

*Callibaetis brevicostatus* Daggy. September 22; small pond near Carvers  
 Lake, Ramsey County.  
*Centroptilum bistrigatum* Daggy. September 28; Mississippi River, Fridley.  
*Hexagenia bilineata* Say. No date; Minnesota River.  
*Pseudocloeon anoka* Daggy. August 21; Coon Creek, Anoka Co.  
*Pseudocloeon elliotti* Daggy. September 28; Mississippi River, Fridley.  
*Pseudocloeon ida* Daggy. September 26; Mississippi River, Fridley.  
*Pseudocloeon minutum* Daggy. July 7; Mississippi River, Coon Rapids.  
*Rhithrogena pellucida* Daggy. July 1; Minneapolis.  
*Stenonema minnetonka* Daggy. June 14; Mound.  
*Stenonema wabasha* Daggy. July 7; Mississippi River, Wabasha.

## MONTANA

*Ameletus cooki* McDunnough. August 7; Brackett Creek, near Bozeman.  
*Ephemerella concinnata* Traver. June 8; Railroad Creek, Glacier National  
 Park.  
*Ephemerella glacialis* Traver. June 8; Glacier National Park, Midvale Creek.  
*Ephemerella hystrix* Traver. June 29; Blackfoot River, Potomac.  
*Ephemerella spinifera* Needham. June 20; Blackfoot River near Potomac.  
*Epeorus youngi* Traver. August 15; Upper Kintla Lake,  
 Glacier National Park.  
*Leptophlebia gravastellus* Eaton. No date; "Montana."

## NEVADA

*Baetis parallelus* Banks. No date; Reno.  
*Rhithrogena morrisoni* Banks. No date; Reno.

## NEWFOUNDLAND

*Leptophlebia hebes* Walker. No date; "Newfoundland."

*Leptophlebia ignava* Hagen. No date; Madrid (?)

## NEW HAMPSHIRE

*Leptophlebia johnsoni* McDunnough. June 21; Jaffrey.

*Siphonurus mirus* Eaton. No date; "New Hampshire."

## NEW JERSEY

*Ephoron leukon* Williamson. No date; Passaic River, Bellville.

*Habrophlebiodes americana* Banks. No date; Passaic.

## NEW MEXICO

*Ametropus albrighti* Traver. October 14; San Juan River, near Farmington.

*Rhithrogena undulata* Banks. May 25; Jemez Springs.

## NEW YORK

*Ameletus ludens* Needham. May 22; Newport, headwaters of small stream, 900 ft. elev., Hasenclever Hills.

*Brachycercus lacustris* Needham. No date; Oneida Lake.

*Caenis allecta* Needham. July; Fall Creek, Ithaca.

*Caenis anceps* Traver. July 15; Varna.

*Callibaetis skokianus* Needham. No date; Bone Pond, Saranac Inn.

*Choroterpes ferruginea* Traver. August; Wintergreen Point, Old Forge.

*Epeorus confusus* Traver. May 20; Slaterville.

*Epeorus fragilis* Morgan. May 9; Coy Glen Brook, Ithaca.

*Epeorus fraudator* Traver. May 7; Ringwood.

*Epeorus pleuralis* Banks. No date; Gloversville.

*Epeorus tenuis* Traver. June 24; Ringwood.

*Epeorus humeralis* Morgan. May 25 to July 25; Fall Creek.

*Ephemerella cornuta* Morgan. July 20, 21; Fall Creek, Ithaca.

*Ephemerella deficiens* Morgan. First half of May; Fall Creek, Ithaca.

*Ephemerella dorothea* Needham. No date; Beaver Meadow Brook, Old Forge.

*Ephemerella lata* Morgan. June 20, 24; Fall Creek, Ithaca.

*Ephemerella rotunda* Morgan. June 8, 10; Pleasant Brook, Ithaca.

*Ephemerella serrata* Morgan. June 3, 12, 14; upper Fall Creek, Ithaca.

*Ephemerella tuberculata* Morgan. June 22; upper Fall Creek, Ithaca.

*Habrophlebia vibrans* Needham. July 1; Bald Mt. Pond, Old Forge.

*Habrophlebiodes betteni* Needham. July 1; Hamburg.

*Hexagenia recurvata* Morgan. No date; "New York."

*Isonychia albomanicatus* Needham. July 12; Old Forge.

*Isonychia christina* Traver. July 24; Ithaca.

*Isonychia harperi* Traver. September 2-3; Ft. Jackson, St. Regis River.

*Isonychia matilda* Traver. August; Wild Flower Preserve, Slaterville.

*Isonychia sadleri* Traver. June 12; Fish Hatchery on Cascadilla Creek.

*Paraleptophlebia mollis* Eaton. No date; West Farm.

*Potamanthus diaphanus* Needham. No date; Squaw Island, Niagra River, Buffalo.

- Potamanthus inequalis* Needham. June 29; Schenectady.  
*Potamanthus neglectus* Traver. July 2; Ithaca.  
*Potamanthus rufous* Argo. July 8; Corning.  
*Rhithrogena amica* Traver. May 15; Ellis Hollow, Ringwood Creek.  
*Siphonisca aerodromia* Needham. June 29; Sacandaga Park, Johnstown.  
*Siphonurus annulata* Walker. No date; Trenton Falls.  
*Siphonurus barbarus* McDunnough. June 9; Big Indian Valley, Catskill Mtns.  
*Siphonurus noveboracana* Lichtenstein. No date; "New York."  
*Siphonurus triangularis* Clemens. June 5-18; Ithaca.  
*Stenonema femoratum tripunctatum* Banks. No date; Westfield.  
*Stenonema ithaca* Clemens. June 24; Ithaca.  
*Stenonema majus* Traver. July 16; Cascadilla Creek, Ithaca.  
*Stenonema placitum* Banks. June 12; Sport Island, Sacandaga River.  
*Stenonema proximum* Traver. June 13; near White Church.

## NORTH AMERICA

- Ephemera decora* Walker. No date; "Canada."  
*Ephemera guttulata* Pictet. No date; "North America."  
*Hexagenia angulata* Walker. No date; "Canada."

## NORTH CAROLINA

- Ameletus lineatus* Traver. February 20; Big Alamance Creek.  
*Baetis amplus* Traver. March 12; Big Alamance Creek.  
*Baetis australis* Traver. April 11; Goshen Swamp.  
*Baetisca carolina* Traver. March 30; Big Alamance Creek.  
*Baetisca thomsenae* Traver. June 5; Valle Crucis, Crabapple Creek.  
*Brachycercus nitidus* Traver. July 2; Rock Broad River.  
*Cinygmula subaequalis* Banks. May; Black Mtn., North Fork of Swannanoa River.  
*Epeorus dispar* Traver. July 25; Allens Creek, near Hazelwood.  
*Epeorus rubidus* Traver. June 16; Flta Creek at Black Mountain.  
*Epeorus subpallidus* Traver. June 20; Cedar Creek near Glenville.  
*Ephemera blanda* Traver. July 19; French Broad River at Penrose.  
*Ephemerella carolina* Berner and Allen. August 6; Macon Co., Buck Creek.  
*Ephemerella cherokee* Traver. July 25; Cedar Creek near Glenville.  
*Ephemerella conestee* Traver. August 2; Tributary of Pigeon River.  
*Ephemerella doris* Traver. May 6; Uharie River near Farmer.  
*Ephemerella inconstans* Traver. March 15; Hamburg Lake.  
*Ephemerella longicornis* Traver. July 14; Cedar Creek, near Glenville.  
*Ephemerella vernalis* Banks. No date; Black Mtn., N. Fork of Swannanoa River.  
*Ephemerella wayah* Traver. July 1; Wayah Creek near Franklin.  
*Habrophlebia jocosa* Banks. May; Asheville, Black Mtns., N. Fork of Swannanoa River.  
*Habrophlebia pusilla* Traver. May 14; Cascades near Danbury, tributary of Dan River.

- Heptagenia julia* Traver. July 3; North Fork of Swannanoa River.  
*Heptagenia spinosa* Traver. June 30; North Fork of Swannanoa River.  
*Heptagenia thetis* Traver. May 4; Cascades, near Danbury.  
*Hexagenia carolina* Traver. June 3; Hamburg Lake, 10 mi. N. of Greensboro.  
*Hexagenia kanuga* Traver. May 16; Florence.  
*Hexagenia munda elegans* Traver. August 15; Chowan River, near Winton, Hertford Co.  
*Hexagenia munda munda* Eaton. No date; Morganton.  
*Hexagenia rosacea* Traver. July 14; Penrose, near headwaters of French Broad River.  
*Isonychia annulata* Traver. May 22; Big Alamance Creek.  
*Isonychia aurea* Traver. July 26; tributary of Pigeon River.  
*Isonychia notata* Traver. July 17; Bald Creek near Bald Creek, Yancy Co.  
*Isonychia obscura* Traver. July 17; Penrose.  
*Isonychia pacoleta* Traver. Pacolet River, near Tryon.  
*Isonychia serrata* Traver. July 21; Allens Creek, near Waynesville.  
*Isonychia similis* Traver. July 29; Cedar Creek near Glenville.  
*Isonychia thalia* Traver. July 9; Davidson River.  
*Leptophlebia austrina* Traver. March 22; Lake near Liberty.  
*Leptophlebia collina* Traver. April 7; Mirror Lake, near Highlands.  
*Leptophlebia grandis* Traver. March 17; Scales Lake, on private estate near Greensboro.  
*Leptophlebia intermedia* Traver. April 1; Tributary of Cape Fear River.  
*Leptophlebia gracilis* Traver. April 28; Hamburg.  
*Neocloeon alamance* Traver. April 5; Big Alamance Creek.  
*Neophemera purpurea* Traver. June 30; Davidson River.  
*Paraleptophlebia assimilis* Banks. May; Black Mtn., North Fork of Swannanoa River.  
*Paraleptophlebia swannanoa* Traver. June 15; North Fork of Swannanoa River.  
*Pseudocloeon carolina* Banks. May; Black Mtn.  
*Rhithrogena exilis* Traver. June 14; North Fork of Swannanoa River.  
*Rhithrogena fasciata* Traver. July 17; Waynesville.  
*Rhithrogena fuscifrons* Traver. July 21; tributary of Pigeon River, 4 mi. W. of Hazelwood.  
*Rhithrogena rubicunda* Traver. June 5; Banners Elk.  
*Rhithrogena uhari* Traver. May 13; Caraway Creek, Uharie Mtns.  
*Siphonurus decorus* Traver. April 11; Goshen Swamp.  
*Siphonurus marginatus* Traver. May 1; Lake near Liberty.  
*Siphloplecton signatum* Traver. February 18; small lake near Liberty.  
*Stenonema affine* Traver. April 23; Caraway Creek, Uharie Mtns.  
*Stenonema annexum* Traver. April 11; Goshen Swamp.  
*Stenonema bellum* Traver. July 19; French Broad River.  
*Stenonema carolina* Banks. May; Black Mtn., North Fork of Swannanoa River.

*Stenonema exiguum* Traver. June 1; near Hamburg Lake.  
*Stenonema pallidum* Traver. May 21; Cascades, near Danbury.  
*Stenonema varium* Traver. April 5; Big Alamance Creek.

## NORWAY

*Metretopus borealis* Eaton. July or August; between Kautokeim and Kraswando.

*Metretopus norvegicus* Eaton. September; South Norway.

## NORTHWEST TERRITORY

*Baetis foemina* McDunnough. August 7; Lake Harbor.

*Siphonurus alternatus* Say. No date; "Northwest Territory."

## NOVA SCOTIA

*Ameletus tertius* McDunnough. July 13; Baddeck Forks, Cape Breton Island.

*Centroptilum victoriae* McDunnough. June 19; Inhabitants River, Cape Breton Island at jct. of Victoria Highway.

*Ephemerella bicoloroides* McDunnough. July 3; Baddeck Forks, Cape Breton Island.

*Leptophlebia concinna* Walker. No date; "Nova Scotia."

*Leptophlebia pallipes* Walker. No date; "Nova Scotia."

*Paraleptophlebia debilis* Walker. No date; "Nova Scotia."

*Stenonema tessellata* Walker. No date; "Nova Scotia."

## OHIO

*Caenis jocosa* McDunnough. July 1-10; Put-in-Bay, South Bass Island.

*Centroptilum rivulare* Traver. August 6; Kirtland.

*Leptophlebia cupida* Say. May 15; Ohio River, Cincinnati.

*Pentagenia robusta* McDunnough. No date; Cincinnati.

*Potamanthus distinctus* Traver. July 1; Willoughby.

*Stenonema candidum* Traver. July 23; Willoughby.

*Stenonema conjunctum* Traver. August 24; Pleasant Valley.

*Stenonema femoratum femoratum* Say. No date; Cincinnati.

*Stenonema gildersleevei* Traver. August 31; Kirtland — in small stream from Gildersleeve Mtn.

*Stenonema ohioense* Traver. August 17; East Creek, near Painesville.

## OKLAHOMA

*Baetis endymion* Traver. March 19; Johnston Co.

*Caenis delicata* Traver. April 2; Murray Co.

*Choroterpes oklahoma* Traver. March 20; Murray Co.

*Ephemera traverae* Spieth. June 19; Flint.

*Habrophlebiodes annulata* Traver. March, "Oklahoma."

*Stenonema birdi* Traver. February 28; Comanche Co.

*Stenonema femoratum scitulum* Traver. June 10; Latimer County.

## ONTARIO

*Baetis brunneicolor* McDunnough. May 25; Cave Creek, Ottawa West.

*Baetis curiousus* McDunnough. August 22; Ottawa.



- Baetis flavistriga* McDunnough. June 14; Rideau River.  
*Baetis intercalaris* McDunnough. June 11; Rideau River.  
*Baetis nanus* McDunnough. August 19; Ottawa.  
*Baetis phoebus* McDunnough. May 25; West Ottawa  
*Baetisca lacustris* McDunnough. July 3; Pelee Island.  
*Brachycercus pallidus* Ide. September 5; Daventry.  
*Caenis forcipata* McDunnough. June 19; Algonquin Park.  
*Caenis simulans* McDunnough. July 21; Orillia.  
*Centroptilum album* McDunnough. June 13; Silver Creek, Orillia.  
*Centroptilum convexum* Ide. No date; Mad River, Hornings Mills.  
*Centroptilum fragile* McDunnough. August 22; Rideau River.  
*Centroptilum semirufum* McDunnough. August 6; Kearney.  
*Choroterpes fusca* Spieth. September 1; Algoma.  
*Cloeon insignificans* McDunnough. August 21; Ottawa.  
*Cloeon minor* McDunnough. August 7; Joe Lake, Algonquin Park.  
*Cloeon rubropictum* McDunnough. August 19; Ottawa.  
*Cloeon triangulifer* McDunnough. June 29; Cornwall.  
*Ephemera natata* Walker. No date; St. Martins Falls, Albany River,  
Hudson Bay.  
*Ephemerella atrescens* McDunnough. June 16; Ottawa, Rideau River.  
*Ephemerella bicolor* Clemens. No date; Go Home Bay, Georgian Bay.  
*Ephemerella depressa* Ide. No date; Hornings Mills.  
*Ephemerella fuscata* Walker. No date; St. Martins Falls. Albany River,  
Hudson Bay.  
*Ephemerella invaria* Walker. No date; St. Martins Falls, Albany River.  
*Ephemerella lineata* Clemens. July 1 to July 12; Go-Home Bay.  
*Ephemerella lutulenta* Clemens. May 29–June 19; Go-Home Bay.  
*Ephemerella semiflava* McDunnough. June 4; Tillsonburg.  
*Ephemerella septentrionalis* McDunnough. July 11; Little Cur R., Thunder  
Bay Dist.  
*Ephemerella temporalis* McDunnough. July 4; Ottawa.  
*Ephemerella walkeri* Eaton. No date; St. Martins Falls, Albany River,  
Hudson Bay.  
*Epeorus punctatus* McDunnough. August 6; Ottawa.  
*Epeorus vitrea* Walker. No date; St. Martins Falls, Albany River,  
Hudson Bay.  
*Heptagenia horrida* McDunnough. June 11; St. Davids.  
*Heptagenia lucidipennis* Clemens. August 23; Sandy Gray Falls,  
Go-Home River.  
*Heptagenia perifida* McDunnough. June 28; Jordan, Ontario.  
*Heptagenia pulla* Clemens. June 23 and July 6; shores of Island 4 mi. out  
in Georgian Bay.  
*Heptagenia walshi* McDunnough. July 10; Walsh.  
*Hexagenia atrocaudata* McDunnough. September 10; Ottawa.  
*Hexagenia limbata occulta* (Walker). No date; Arctic America between  
Lake Winnipeg and Lake Superior.

- Hexagenia limbata viridescens* Walker. No date; St. Martins Falls, Albany River.
- Hexagenia munda affiliata* McDunnough. June 16–21; Sparrow Lake near Severn.
- Hexagenia rigida* McDunnough. July 21; Orillia.
- Isonychia bicolor* Walker. No date; St. Martins Falls, Albany River, Hudson Bay.
- Leptophlebia nebulosa* Walker. No date; St. Martins Falls, Albany River, Hudson Bay.
- Paraleptophlebia ontario* McDunnough. June 28; Jordan.
- Paraleptophlebia strigula* McDunnough. May 31; Dundas.
- Parameletus croesus* McDunnough. May 22; Ottawa.
- Parameletus midas* McDunnough. May 29; Ottawa.
- Pseudocloeon chlorops* McDunnough. August 16; Ottawa.
- Pseudocloeon parvulum* McDunnough. June 4; Tillsonburg.
- Pseudocloeon punctiventris* McDunnough. August 19; Rideau River.
- Pseudocloeon virile* McDunnough. June 7; Ottawa.
- Potamanthus walkeri* Ide. No date; Erindale.
- Rhithrogena fusca* Walker. No date; St. Martins Falls, Albany River.
- Rhithrogena jejuna* Eaton. No date; St. Martins Falls, Albany River, Hudson Bay.
- Rhithrogena sanguinea* Ide. June 5; Sheldon Creek, Dufferin County.
- Siphonurus luridipennis* Burmeister. No date; St. Martins Falls, Albany River.
- Siphonurus securifer* McDunnough. July 7; Joe Lake, Algonquin.
- Siphoplecton flexus* Clemens. May 23, 26, June 12; Station Island, Georgian Bay.
- Stenonema bipunctatum* McDunnough. July 28; Queenston.
- Stenonema fuscum* Clemens. June 16; on Go-Home River just below Sandy Grey Falls.
- Stenonema interpunctatum canadense* Walker. No date; St. Martins Falls, Albany River.
- Stenonema interpunctatum interpunctatum* Say. No date; St. Martins Falls, Albany River.
- Stenonema luteum* Clemens. June 3; Station Island; June 30; Muskosh River.
- Stenonema mediopunctatum* McDunnough. July 10; Walsh.
- Stenonema rubromaculatum* Clemens. June 15; narrows near mouth of Go-Home River.

## OREGON

- Ameletus exquisitus* Eaton. No date, Mt. Hood.
- Ameletus oregonensis* McDunnough. March 19; Rock Creek, Philomath.
- Baetis caurinus* Edmunds and Allen. August 25; Alsea River, Oregon State Highway 34, 10 miles south of Alsea.
- Centroptilum oreophilum* Edmunds. May 22; Home Creek, Steens Mtns.
- Cinygma dimicki* McDunnough. May 1; Rock Creek, Philomath.
- Cinygma integrum* Eaton. No date; Mt. Hood.

- Cinygmula reticulata* McDunnough. May 10; Luckiamute River, Kings Valley.
- Ephemerella edmundsi* Allen. May 13; Benton Co., Woods Creek.
- Ephemerella flavitincta* McDunnough. May 6; Luckiamute River, Hoskins.
- Ephemerella cascadia* Allen and Edmunds. August 30; Clackamas Co., branch of Still Creek, Timberline Lodge Road, Mt. Hood.
- Ephemerella hecuba pacifica* Allen and Edmunds. August 25; Lane Co., Cape Creek near Sealion Point.
- Ephemerella heterocaudata circia* Allen and Edmunds. June 17; Douglas Co., Umpqua River, Sawyer Rapids, 26 mi. E. Reedsport.
- Ephemerella orestes* Allen and Edmunds. August 27; Clackamas Co., East Fork Hood River, Mt. Hood.
- Epeorus arctus* Traver. September 9; Winchuch River, Brookings.
- Epeorus geminatus* Eaton. No date; Mt. Hood.
- Epeorus nitidus* Eaton. No date; Mt. Hood.
- Epeorus permagnus* Traver. August 20; Cloud Cap Inn, Mt. Hood.
- Heptagenia otiosa* McDunnough. July 7; Maupin.
- Heptagenia rosea* Traver. July 21; Gold Hill.
- Leptophlebia pacifica* McDunnough. April 8; Corvallis.
- Leptophlebia vibex* Traver. April 16; Corvallis.
- Paraleptophlebia falcula* Traver. July 4; Corvallis.
- Paraleptophlebia gregalis* Eaton. No date; Mt. Hood.
- Paraleptophlebia rufivenosa* Eaton. No date; Mt. Hood.
- Paraleptophlebia sculleni* Traver. May 31; Corvallis.
- Paraleptophlebia vaciva* Eaton. No date; Mt. Hood.

## PENNSYLVANIA

- Baetis posticatus* Say. May 21; Shippingsport.
- Caenis amica* Hagen. No date; "Pennsylvania."
- Choroterpes basalis* Banks. July; Montgomery County.

## QUEBEC

- Ameletus browni* McDunnough. August 11; Mt. Lyall, Gaspé Co.
- Baetis cingulatus* McDunnough. June 20; Covey Hill.
- Baetis frivulus* McDunnough. June 25; Wakefield.
- Baetis frondalis* McDunnough. July 8; Laprairie.
- Baetis incertains* McDunnough. July 2; Covey Hill.
- Baetis levitans* McDunnough. June 25; Covey Hill.
- Baetis macdunnoughi* Ide. June 24; Masham Mills.
- Baetis pluto* McDunnough. June 27; Covey Hill.
- Baetis pygmaeus* Hagen. No date; St. Lawrence River.
- Baetis rusticans* McDunnough. June 24; Covey Hill.
- Baetis vagans* McDunnough. June 17; Covey Hill.
- Baetisca laurentina* McDunnough. June 6; Lachine.
- Baetisca rubescens* Provancher. No date; "Quebec."
- Caenis punctata* McDunnough. July 15; Hemmingford.

- Centroptilum bellum* McDunnough. July 16; Broadview, vicinity of Hull.  
*Centroptilum caliginosum* McDunnough. August 6; Lachine.  
*Centroptilum intermediale* McDunnough. July 10; Marsh Creek, Sweetsburg.  
*Centroptilum ozburni* McDunnough. July 16; Ottawa Golf Club.  
*Centroptilum simile* McDunnough. June 25; Covey Hill.  
*Cloeon simplex* McDunnough. August 14; Ottawa Golf Club.  
*Epeorus suffusus* McDunnough. June 15; Ottawa Golf Club.  
*Ephemera simulans* Walker. No date; St. Lawrence River.  
*Ephemerella aestiva* McDunnough. July 12; Vaudreuil.  
*Ephemerella attenuata* McDunnough. July 30; Ottawa Golf Club.  
*Ephemerella cornutella* McDunnough. August 2; Knowlton.  
*Ephemerella coxalis* McDunnough. June 20; Dorval.  
*Ephemerella fratercula* McDunnough. June 30; Covey Hill.  
*Ephemerella funeralis* McDunnough. June 23; Covey Hill.  
*Ephemerella inflata* McDunnough. July 13; Wakefield.  
*Ephemerella minimella* McDunnough. July 7; Knowlton.  
*Ephemerella molita* McDunnough. August 17; Trinity Bay.  
*Ephemerella needhami* McDunnough. July 8; Laprairie.  
*Ephemerella prudentalis* McDunnough. June 25; Knowlton.  
*Ephemerella quebecensis* Provancher. Quebec.  
*Ephemerella serratoides* McDunnough. August 13; Knowlton.  
*Ephemerella simplex* McDunnough. July 8; Laprairie.  
*Ephemerella sordida* McDunnough. August 6; Lachine.  
*Ephemerella subvaria* McDunnough. June 3; Cascades Point, St. Lawrence River.  
*Ephemerella verisimilis* McDunnough. July 25; Bradore Bay.  
*Heptagenia aphrodite* McDunnough. July 30; Ottawa Golf Club.  
*Heptagenia hebe* McDunnough. July 12; Broadview, vicinity of Hull.  
*Heptagenia junio* McDunnough. June 25; Covey Hill.  
*Heptagenia minerva* McDunnough. July 16; Ottawa Golf Club.  
*Heptagenia rusticalis* McDunnough. July 13; S. Bolton.  
*Heptagenia umbratica* McDunnough. July 25; North Hatley.  
*Neophemera bicolor* McDunnough. July 9; Laprairie.  
*Paraleptophlebia adoptiva* McDunnough. May 21; Kazubazua.  
*Paraleptophlebia guttata* McDunnough. June 25; Covey Hill.  
*Paraleptophlebia moerens* McDunnough. June 10; Ottawa Golf Club.  
*Paraleptophlebia volitans* McDunnough. July 26; Ottawa Golf Club.  
*Paraleptophlebia cingulatum* McDunnough. July 10; Mid Yamaska River, Foster Power Plant.  
*Rhithrogena anomala* McDunnough. June 22; Knowlton.  
*Rhithrogena brunneotincta* McDunnough. June 28; Mt. Lyall, Gaspé Co.  
*Rhithrogena gaspeensis* McDunnough. August 9, Mt. Lyall, Gaspé Co.  
*Rhithrogena impersonata* McDunnough. June 20; Montreal.  
*Siphonurus barbaroides* McDunnough. June 14; Knowlton.  
*Siphonurus berenice* McDunnough. June 13; Cascades, Gatineau River.  
*Siphonurus quebecensis* Provancher. Quebec.

- Stenonema interpunctatum heterotarsale* McDunnough. July 2; Ottawa Golf Club.  
*Stenonema nepotellum* McDunnough. July 15; Fulford, Knowlton region.  
*Stenonema rivulicolus* McDunnough. May 30; Fairy Lake Creek, near Hull.  
*Stenonema rubrum* McDunnough. July 31; Ottawa Golf Club.  
*Tricorythodes atratus* McDunnough. August 6, Wakefield.  
*Tricorythodes stygiatus* McDunnough. August 30; Cascades point, St. Lawrence River.

## SASKATCHEWAN

- Anepeorus rusticus* McDunnough. September 14; Saskatoon.  
*Brachycercus prudens* McDunnough. September 9; Saskatoon.  
*Lachlania saskatchewanensis* Ide. September 5; Stoney Lake, near Humbolt.

## SOUTH CAROLINA

- Dolania americana* Edmunds and Traver. No date; Upper Three Runs, 15 mi. S. Aiken.  
*Heptagenia townesi* Traver. June 2; Greenville.

## SWEDEN

- Baetis lapponica* Bengtsson. August; Abisko River, Torne, Lappmark.  
*Cloeon dipterum* Linnaeus. No date; "Sweden."  
*Ephemerella aurivillii* Bengtsson. Dalarna, Lappland.  
*Parameletus chelifera* Bengtsson. "Sweden."

## TENNESSEE

- Ephemerella spiculosa* Berner and Allen. August 3; Green Co., Horse Creek Recreation Area.  
*Isonychia diversa* Traver. June 30; Knoxville.  
*Isonychia tusculanensis* Berner. June 4; Camp Creek, Green Co.

## TEXAS

- Callibaetis pictus* Eaton. No date; "Texas."  
*Choroterpes manita* Traver. June; Austin.  
*Hexagenia limbata venusta* Eaton. No date; Dallas.  
*Isonychia sicca manca* Eaton. No date; "Texas."  
*Tortopus circumfluvius* Ulmer. June 30; "Texas."  
*Traverella presidiana* Traver. August; Presidio.  
*Tricorythodes texanus* Traver. July 2; Devils River.

## UTAH

- Centroptilum selanderorum* Edmunds. June 15; Brigham City.  
*Ephemerella angusta* Traver. July 29; Provo River, near Deer Creek.  
*Ephemerella doddsi* Needham. June 19-28th; Logan River.  
*Ephemerella margarita* Needham. No date; Provo River.  
*Lachlania powelli* Edmunds. September 4; Green River at Hideout Canyon.  
*Paraleptophlebia packi* Needham. No date; Junction North Fork and Main Fork of Ogden River.  
*Tricorythodes minutus* Traver. July 22; Provo River.

## VIRGINIA

- Callibaetis pretiosus* Banks. September 11; Great Falls.  
*Heptagenia marginalis* Banks. June 18; Great Falls.  
*Siphloplecton costalense* Speith. April 17; Courtland.

## WASHINGTON

- Baetisca columbiana* Edmunds; November 4; Franklin Co., Columbia River at Pasco.  
*Caenis latipennis* Banks. June; Pullman.  
*Callibaetis tessellata* Hagen. No date; Puget Sound.  
*Epeorus hesperus* Banks. March 31; Pacoima. (Is this actually from California? G.F.E.)  
*Paraleptophlebia brunneipennis* McDunnough. May 30; Rock Lake.

## WEST VIRGINIA

- Baetisca callosa* Traver. August 18; Johnny Cake Run.  
*Ephemera triplex* Traver. July 30; Marlinton.  
*Ephemerella allegheniensis* Traver. August 13; Cacapon River.  
*Hexagenia mingo* Traver. June 25; Millwood.

## WISCONSIN

- Baetis lasallei* Banks. June 13; Milwaukee.  
*Stenonema femoratum tripunctatum* Banks. No date; Milwaukee.

## WYOMING

- Baetis thermophilus* McDunnough. September 3; Old Faithful Geyser, Yellowstone National Park.  
*Centroptilum elsa* Traver. July 30; Moose.  
*Ephemerella heterocaudata heterocaudata* McDunnough. July 29; Upper Geyser Basin, Yellowstone National Park.  
*Ephemerella lapidula* McDunnough. July 29; Firehole River, Upper Geyser Basin, Yellowstone National Park.  
*Heptagenia criddlei* McDunnough. August 30; Yellowstone National Park.  
*Rhithrogena futilis* McDunnough. July 26; Gardiner River, Yellowstone National Park.

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