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

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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
 in anum 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 Tahquitz 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.

ILLINOIS¹

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

¹ 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 frivolus* 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 junco 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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