

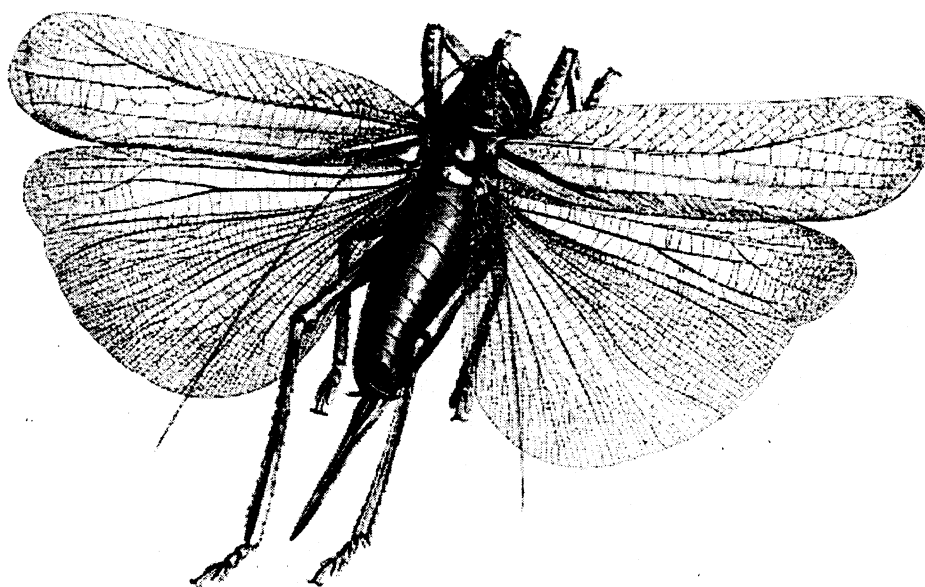
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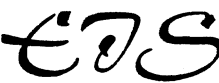
NOMINA INSECTA NEARCTICA

A Check List of the Insects of North America

Volume 4: NON-HOLOMETABOLOUS ORDERS



compiled by Robert W. Poole, Rosser W. Garrison, W.P. McCafferty, Daniel Otte, and Bill P. Stark
edited by Robert W. Poole and Patricia Gentili

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INTRODUCTION

A *thing* is defined as much by what it isn't as by what it is. *Nomina Insecta Nearctica* is not a catalog. Nor is it even a check list by conventional standards. Rather *Nomina Insecta Nearctica* is a directory of the scientific names applied to the insects of North America. These names include senior synonyms, junior synonyms, junior homonyms, unavailable names (in the sense of the Code of Zoological Nomenclature), and in some cases misspellings and misidentifications. Junior synonyms, homonyms, and so forth, are arranged chronologically under the valid species name. All other levels of organization are alphabetical. Species are arranged alphabetically under the current generic name. Genera are alphabetical within families, and families are arranged alphabetically within orders.

Nomina Insecta Nearctica is not an original piece of scientific research. It is a compilation of the current literature, a snapshot of the current published status of the classification. This check list contains no new combinations or synonymies. If one genus has been synonymized with another, but no formal combinations were made for each of the included species, a principle of implied combinations is used. Specifically these new combinations are credited to the original synonymizer of the generic name by implication even if no formal new combinations were made. No objective replacement names are proposed even for clearly identified junior homonyms. Homonyms without an available replacement name are indicated by brackets. Further clearly wrong arrangements of junior and senior synonyms in the literature are not corrected. For example if a younger name is listed in the literature as the valid name for a species in preference to an older name, the synonymy is given as recorded, although indicated by a question mark. This happens more commonly than you might think.

Although *Nomina Insecta Nearctica* contains the word Nearctic, a more proper definition of the region covered by this publication is North America north of the Mexican border. Significant portions of Mexico are properly part of the Nearctic region. The check list has been limited to north of the Mexican border for practical reasons. Adding the Nearctic portions of Mexico to the list would have made the compilation of the list considerably more difficult, if not nearly impossible. The Mexican border has been used as the standard boundary in the majority of publications from which this list was compiled. Many users of this list

will find a politically based division more useful than the more scientific one. Finally the division between the Nearctic and Neotropical zones is nebulous at best, both in the United States and Mexico and the Antillies. Mexico is considered to be entirely Neotropical for purely practical reasons and will be so treated in any future portion of the *Nomina* series covering the Neotropical insect fauna.

Nomina Insecta Nearctica has very specific and limited goals. The ultimate ideal of every systematist is to create a network of printed publications and computer databases containing all known information about every described species in the world. The first step in attaining this Holy Grail of systematics is a listing of the species of the world and of the names that have been applied to them. The *Nomina* series is such a first step and *Nomina Insecta Nearctica* is the part covering the insects of North America, the dominant component (perhaps as much as three-fourths) of the flora and fauna of the Nearctic region.

The *Nomina* series has two guiding principles: Stability and utility. Complete stability, of course, is impossible in any developing science, such as systematics, and is not even completely desirable. On the other hand systematics must also consider the needs of the users of systematic systems. Systematics does not happen in isolation nor are systematists the final users of the systems proposed. Therefore the *Nomina* series will approach classifications from a conservative position and will not adopt major changes in the classification of a group unless or until it meets one or more of two criteria. Is the change necessary to break up polyphyletic or paraphyletic groupings? Has the change gained general acceptance within the systematic and user communities? Users of systematic systems tend to concentrate on primary levels of classification; order, family, genus and species. An unfortunate tendency exists these days to break up already monophyletic order, family, and generic concepts into smaller and smaller groups. If the changes in the classification of a group are merely changes in rank (e.g. changing subfamilies to family rank), we feel that these changes are usually not justified. The usual reason given for such subdivision of existing and utilized groupings is that the new groupings more accurately reflect the evolutionary history of the group. It is the opinion of the editors of the *Nomina* series that the concepts of superfamily, subfamily, tribe, and

subgenus exist for just this purpose. We suggest that these subordinate categories be used for refinement of the classification and that order, family, and generic concepts be kept at stable as possible for the user community. The splitting of primary groups will not be followed unless they satisfy one of the two criteria listed above.

Nomina Insecta Nearctica employs only primary groups; Class, Order, Family, Genus, and Species. Subordinate groupings such as Superfamily, Subfamily, Tribe, Subgenus, and Subspecies are not listed in the main body of the directory, although subordinate categories to the subfamily level are given in the classification portion of this publication. Names originally proposed, or currently treated, as subgenera or subspecies are treated as simple synonyms. The absence of subordinate categories in the body of the check list, particularly subgenera and subspecies, is not a statement, positive or negative, about the utility of such categories.

Subgeneric names, in particular, are an important component of the classifications of parts of the Diptera. The editors of the *Nomina* series are not using subgeneric names for a variety of reasons:

1. The addition of subgeneric names would have added a level of complexity to the compilation of the series we were unwilling and unable to deal with.
2. The inclusion would also make the purely alphabetical arrangement of names difficult if not impossible.
3. Subgeneric names are not used consistently within the Insecta. These names are used heavily in some groups, but not at all in others. Even within groups some authors use subgeneric names and others do not.
4. Subgeneric names are sometimes not used consistently between geographical regions. Although a consistent synonymy of subgeneric names on a world-wide basis exists for some groups, in others there appears to be separate sets of subgeneric names by biogeographical region.
5. A corollary of point 4 is the increased difficulty of creating an integrated classification of the insects on a world-wide basis, the ultimate goal of the *Nomina Insecta* series. Although this integration of classifications problem occurs on the generic level as well, the addition of subgeneric names would increase the difficulty of this

task by an order of magnitude.

6. The editors of the *Nomina* series feel that an informal system of species groups and species complexes serves the same purpose as subgeneric names without introducing the complexity of formally proposed scientific names.

An accurate representation of the evolutionary history of a group is *not* among the limited goals of the *Nomina* series nor should it be. Other publications and databases exist, or should exist, for this purpose. The compilers of *Nomina Insecta Nearctica* are authorities only in their own limited groups and could never satisfactorily produce a phylogenetically arranged list. Secondly the addition of subordinate categories would have materially lengthened each volume in the series when the volumes are already enormous. Although information about subordinate categories and phylogenetic arrangements is not given in either the printed version or in the CD-ROM accompanying the series, references to these categories and arrangements can be often be found in the source field of the database contained on the CD-ROM. The source field is discussed later in the introductory material.

Both printed and computer versions of the *Nomina Insecta Nearctica* database are being produced for practical reasons. Printed publications and computer databases have different and complimentary strengths and weaknesses. A computer database is readily and quickly searched for information. A series of CD-ROMS or online databases occupies far less space than a series of printed volumes (if one ignores the space taken by the computer). A printed publication, on the other hand, is far more portable and easier to use for checking specific names or curating collections. A printed publication is easier on the eyes, is easier to learn to use, and just "feels" better. Some of the weaknesses of "searchability" of the printed publication can be made up for with a thorough indexing of the material such as we have attempted in the printed version.

Each order in this volume is divided into three main parts. The first part contains a synopsis of the current classification of the order to the subfamily level with genera listed alphabetically within each subfamily. Higher categories are listed in "phylogenetic order", the source or sources of the order given in the introduction to this section of the check list. The second section composes the check list proper with an alphabetical arrangement of families within the order, genera within each family, and species within each genus. The final

portion of the volume consists of two indices. The first index comprises all of the genus group names and where to find them. The second index contains the species group names and their location in the check list. Because of the alphabetical arrangement employed in the series, no page numbers are used in the index. Rather for any species group name one finds the family in the body of the list by searching the page footers, then finding the genus, and then finding the valid species. More details on the index are given later in the introductory material.

STRUCTURE OF THE CHECK LIST

The structure of the check list is very simple. The list consists of the primary check list followed by two indexes. All names are arranged alphabetically in the two indices. The body of the check list is arranged alphabetically by family. The genera are listed alphabetically within the family, and the valid species names alphabetically within genera. Junior synonyms, junior homonyms, unavailable names, misspellings, and so forth are listed chronologically under the valid species. A valid species is defined as the senior synonym for a species. A typical portion of the check list, in this case from the Muscidae (Diptera), is:

Hydrotaea Robineau-Desvoidy 1830
Ophyra Robineau-Desvoidy 1830 Syn.
Blainvillia Robineau-Desvoidy 1830 Syn.
Lasiops Meigen 1838 Syn.
Onodontha Rondani 1856 Syn.
Psiloptera Lioy 1864 Homo.
Microcera Lioy 1864 Homo.
Hydrothea Pandelle 1898 Emend.
Alloeonota Schanbl 1911 Syn.
Achaetina Malloch 1918 Syn.
Cryptophyra Michelsen 1978 Syn.

Hydrotaea acuta Stein 1898 (*Hydrotaea*)
Hydrotaea dissimilis Aldrich 1926 Syn.
Hydrotaea aenescens Wiedemann 1830 (*Anthomyia*)
Hydrotaea anxia Zetterstedt 1838 (*Anthomyza*)
Aricia bispinosa Zetterstedt 1845 Syn.
Hydrotaea armipes Fallen 1825 (*Musca*)
Anthomyia occulta Meigen 1826 Syn.
Hydrotaea riparia Robineau-Desvoidy 1830 Syn.
Hydrotaea floralis Robineau-Desvoidy 1830 Syn.
Anthomyia idyla Walker 1849 Syn.
Eriphia lata Walker 1849 Syn.
Hydrotaea basdeni Collin 1939 (*Hydrotaea*)
Hydrotaea capensis Wiedemann 1818 (*Anthomyia*)
Anthomyia anthrax Meigen 1826 Syn.
Ophyra rutilans Robineau-Desvoidy 1830 Syn.
Ophyra viridescens Robineau-Desvoidy 1830 Syn.
Anthomyia cadaverina Curtis 1837 Unav.

Ophyra cadaverina Megnin 1894 Syn.

The genus begins with the valid generic name followed by a chronological listing in italics of the junior synonyms, junior homonyms, emendations, and so forth, for the genus. The genus, in this case, *Hydrotaea*, is followed by a list of subordinate name including several junior synonyms, two junior homonyms (*Psiloptera* Lioy 1864 and *Microcera* Lioy 1864), and one emendation (*Hydrothea* Pandelle 1898). All genus group names are listed without indication of whether or not the genus group name was originally or subsequently treated as a subgenus. If a genus group name was originally proposed as a subgenus, this information is available in the CD-ROM version of the check list if this information was readily available to the compilers of the database. The abbreviation at the end of each synonymy gives the current status of the name.

Syn. - A junior synonym

Homo. - A junior homonym. Specific details about the nature of the homonymy are contained in the database and will be available on the CD-ROM version of the check list.

Unav. - An unavailable name, either because the name is a *nomen nudum* or in some other way fails to satisfy the requirements of the Code of Zoological Nomenclature. Specific reasons for the unavailability of the name are contained in the database and will be available on the CD-ROM version of the check list. A generic name may also be listed as Unav. if the name has been suppressed by the ICZN in favor of a younger name.

Emend. - An emendation. Original orthography is utilized throughout this check list. By the standards of this check list there is no such thing as a justifiable emendation. Emendations are available names. Specific details about the emendation are contained in the database and will be available on the CD-ROM version of the check list.

Missp. - A misspelling. Misspellings are not available names. Specific information about misspellings are contained in the database and will be available on the CD-ROM version of the check list.

Misid. - A misidentification. Misidentifications are almost never used in the generic listing, but the possibility is kept for cases requiring them for clarity.

The species group names follow a similar structure. The valid species names are listed alphabetically under the genus name. Junior synonyms, homonyms, emendations, and so forth, are listed chronologically under the valid species name. All species group names are listed as binomials even if the species group name was originally proposed as a subspecific or infrasubspecific category such as subspecies, form, variety, or aberration. The original status of these subspecific and infrasubspecific names is listed in the source field of the database and will be available in the CD-ROM version of the check list. The listing for the valid species *Hydrotaea capensis* is:

Hydrotaea capensis Wiedemann 1818 (Anthomyia)
Anthomyia anthrax Meigen 1826 Syn.
Ophyra rutilans Robineau-Desvoidy 1830 Syn.
Ophyra viridescens Robineau-Desvoidy 1830 Syn.
Anthomyia cadaverina Curtis 1837 Unav.
Ophyra cadaverina Megnin 1894 Syn.

The valid name is listed first and in plain text. Junior synonyms, homonyms, and so forth, are in italics, indented, and listed chronologically below the valid species group name. Unavailable names are listed chronologically below the valid species name if the unavailable name has been identified with the valid species. Unavailable names which have not been identified as a particular species but are considered to belong to a particular genus are listed alphabetically at the end of the generic listing, each unavailable name bracketed to indicate its unknown status.

The valid species group name consists of the current generic name, the species group name, the author, the date of publication, and followed by the original generic name in parentheses. Any field in a name not in the database at the time this check list was published is indicated by the notation [no entry]. Although an effort has been made to eliminate all of these [no entry] fields, a few remain because of either time constraints or the unavailability of the literature needed to find the information.

The species group name for both valid names and subordinate names uses original orthography, i.e. the original spelling as used by the author in the original description. The names have not been changed to agree in number and gender with the current generic assignment. For example if the original description listed the name as *Anthicus albus* Jones 1912 and *albus* was later transferred to the genus *Striata*, the name would be still be listed as *Striata albus* Jones 1912 (*Anthicus*). Original orthography is also used for all subordinate names. More will be said

about the reasons for using original orthography in a later section of the introduction. The check list, however, supplies all of the information necessary to make the changes in endings if the user so wishes.

Junior synonyms, homonyms, unavailable names, and so forth, are listed chronologically under the valid species name and consist of the original generic name, species group name, authors, and date. The date given is the actual date of publication. The convention of listing both the purported and actual date of publication, if different, is not used in this check list. The name is followed by an abbreviation indicating the status of the name. These abbreviations are essentially the same as those employed for genus group names.

Syn. - The name is a junior synonym of the valid name. In some cases the abbreviation Syn. may be followed by a question mark in parentheses. The question mark signifies an older species group name than the listed valid name and for which no reason was found in the sources used in compiling this list for its synonymy. Although an effort was made to resolve these problems, some remain and can probably be traced to one of several causes. The name may be a junior homonym but was not listed as such in any of the sources examined by the compilers. The name may be a misidentification. The systematic literature is plagued with misidentifications listed but not identified as misidentifications. The compilers have tried to eliminate as many of these as possible, but some still remain unidentified. The name may have been treated as a *nomen oblitum* by the author or authors of the source used in compiling the name, but not specifically stated as such. Finally sometimes the authors of the sources used just didn't want to use the older name. We emphasize that this list is a compilation. Therefore we have not tried to correct these synonymies and simply use the (?) convention to denote the problem. Only workers in the group involved are qualified to make these decisions.

Homo. - The name is a junior homonym. A junior homonym may be a junior primary homonym, a junior secondary homonym, and a former junior secondary homonym. These three types of homonymy cannot be distinguished in the printed check list. However, the database usually contains this information and it will be available on the CD-ROM version of the check list.

- Emend.** - An emendation of a species group name. Original orthography is employed throughout this list. Therefore for the purposes of this check list, there is no such thing as a justified emendation even if the original spelling is patently incorrect. Emendations are available names.
- Missp.** - A misspelling of a species group name. Misspellings are listed in this check list when they were readily available and identifiable in the sources used during compilation. No special effort, however, was made to find misspellings.
- Unav.** - The name is unavailable in the sense of the Code of Zoological Nomenclature. Several reasons can exist for a name to be unavailable. Most commonly the name is a *nomen nudum* or infrasubspecific.
- Misid.** - The name is a misidentification. This category is rarely used in this list and only where absolutely necessary to clarify a particular situation. Listing all misidentifications would be an exercise in futility in any case.
- Nomob.** - *Nomen oblitum*. In those cases where the oldest name for a species is listed as a junior synonym and has been treated by the author of the source used by the compilers as a *nomen oblitum*, and if he or she clearly indicated this, the abbreviation Nomob. is used.

ORIGINAL ORTHOGRAPHY

Original orthography has been employed throughout this list whenever possible. Two reasons are advanced for using original orthography.

1. In the opinion of the compilers of the *Nomina* series, computers will come to play an ever increasing role in keeping track of biosystematic information. The changing of specific endings to reflect the number and gender of the current generic assignment is destabilizing and difficult to keep track of in a computer database such as the one employed in compiling the check lists of the *Nomina* series. In short computers do not speak Latin nor is there any simple way to make them. A critical element in designing a relational database or distributed database is the choice of a primary field for joining tables in the relationship. None of the standard categories such as genus or species is sufficient. However the combination of the original generic and the species name as originally

spelled is invariant over time. For example a field such as *ogenus_species* where *ogenus* is the original generic name, *species* is the species group name, and the character " _ " merely serves to join the two names into a single name does not change with time. Moreover any valid species has one and only one *ogenus_species* because of the laws of homonymy. The name is invariant with time and will not change regardless of later shifts in generic assignment.

2. Changes in the endings of species group names to reflect the number and gender of the current generic assignment of the species has an esthetic value for those brought up speaking a romance language. However, one of the two compilers of the database sees no scientific value in such changes. In addition professional systematists often disagree about the correct endings of species group names. This complication can be avoided by simply not worrying about it. Never the less, if one wishes to conform to the current number and gender provisions of the Code of Zoological Nomenclature, the check list contains all of the information necessary to make such changes. Changes in specific endings to reflect number and gender are not emendations in the sense of the Code of Zoological Nomenclature.

SPECIES AND GENUS GROUP NAMES INDICES

A typical sample from an index of species group names is as follows:

ra Harriot Tritoxa (Otitidae) Tritoxa
 rabelloi Lane Stilobezzia (Ceratopogonidae) Stilobezzia
 rabida Walker Sarcophaga (Sarcophagidae) Ravinia querula
 rabiosa Alexander Tipula (Tipulidae) Tipula
 rabunensis Dodge Idoneamima (Sarcophagidae) Sarcophaga
 raca Garrett Anorostoma (Heleomyzidae) Anorostoma marginata
 raca Garrett Bolitophila (Mycetophilidae) Bolitophila
 racemi Felt Rhabdophaga (Cecidomyiidae) Rhabdophaga
 racemi Stebbins Cecidomyia (Cecidomyiidae) Contarinia
 racemicola Felt Rhopalomyia (Cecidomyiidae) Rhopalomyia
 racemicola Osten Sacken Cecidomyia (Cecidomyiidae) Schizomyia
 racemosa Zaitzev Allodia (Mycetophilidae) Allodia

A valid species name is indicated by a regular font and a junior synonym, homonym, emendation, and so forth by italics. Use *Contarinia racemi* Stebbins as an example. The entry for a valid name begins with the species group name (*racemi*) followed by the author or authors (Stebbins), the original generic name (*Cecidomyia*), the current family assignment in parentheses (Cecidomyiidae), ending with the current

generic assignment of the species (*Contarinia*). To find this entry in the check list, go to the family in the alphabetical arrangement using the page footers, and then find the current genus in the alphabetical arrangement of genera.

A typical synonym is

rabida Walker *Sarcophaga* (*Sarcophagidae*) *Ravinia querula*

The entry begins with the species group name (*rabida*) followed by the authors (Walker), the original generic name (*Sarcophaga*), the family (*Sarcophagidae*), the current generic assignment (*Ravinia*) and the current valid name for this species (*querula*). To find this synonymous name, simply find the current valid name, *Ravinia querula*, using the same alphabetical procedure given above.

The genus group name index works in the same way as the species group list except that for synonymous names only the valid genus name needs to be listed.

STRUCTURE OF THE DATABASE

Each species group and genus group name consists of a record in a computer database from which the information in this printed publication is drawn. A species group record contains the species name as originally spelled by the author of the name (original orthography), the author or authors of the name, the date of publication, the original generic name used by the describer of the species, and the current status of the name. If a name is not a valid name for a species, the valid name for the species is also listed. In this printed publication the subordinate status of a name is indicated by listing it in italics chronologically beneath the valid name for the species.

The database also includes a breakdown of the distribution of a species by biogeographical region. Biogeographical breakdown is not applicable to *Nomina Insecta Nearctica* because all species occur in the Nearctic Region. Nor will further information on biogeographical regions be available in the accompanying CD-ROM because any further volumes in the *Nomina* series on insects will be compiled by biogeographical region. Any volume in the *Nomina* series covering a group small enough to be done in a single volume will contain information about occurrence by biogeographical region, the regions depending on whether the organism is terrestrial or marine.

INTRODUCTION

Some fields of the database are internal to the functioning of the database (such as fields for creating relations between tables and a field denoting the current status of the editing process) and are not listed here. The final field in the database is a general listing of information called "source". The information in this field is not available in the printed publication, but will be given in the CD-ROM version of *Nomina Insecta Nearctica* released after completion of the published version. The source field contains specific information about the name in question. If the homonymy, e.g. if the name is a junior secondary homonym, what name is it a junior secondary homonym of. Secondly the source field contains a listing of the publication or publications used during the compilation of the database. This "source" might be a printed check list, revision, or any publication including the paper or book in which the name was originally described. The source field can often be used to track down further information about a name or species including its original description, subsequent papers about its biology or distribution, and the like. However the database is a check list and a compilation and is not intended to take the place of catalogs or databases specifically created to provide this type of information.

ENDING DATE FOR THE CHECK LIST

This check list claims to cover all names published prior to December of 1994. This cut-off date corresponds to volume 131 of the *Zoological Record*.

METHODOLOGY AND QUALITY CONTROL

Several people asked us, after the publication of volume 1 covering the Coleoptera and Strepsiptera, how the list was compiled and what sources were used for the names. The simple answer is that there is no simple answer, the methodology and sources changing from family to family, sometimes genus to genus. Literally thousands of source publications have been used as the source of names and their status throughout the compilation of the first three volumes of the *Nomina* series. The difficulty of the task and the resulting quality and completeness of the product

depend on the thoroughness of the source materials available to us.

The basic procedure is to find the most recent or most complete catalog, check list, or revision for a group and to compile the first version of the database for this group from this publication. If this primary source is lacking some component of the database structure, e.g. original orthography or original generic name, these missing pieces are added by examining the original publications in which the names appeared or revisions in which this information is listed. The editors then work forward from the cut-off date of the primary source adding new species described or changes in generic status or synonymy published since the publication of the primary source. We rely extensively on the *Zoological Record*, but examine and compile from the original papers whenever possible. If no primary source is available for a group, the check list is compiled *de novo*.

This procedure was followed for those orders of non-holometabolous insects compiled by the editors of the series. Several orders have been compiled by authorities in their groups. Although the procedures used by each differ, their contributions are based on preexisting and much more thorough studies of the literature than has been possible for the remaining orders. These contributions and their compilers are: Ephemeroptera (W.P. McCafferty), Odonata (Rosser W. Garrison), Plecoptera (Bill P. Stark), and Orthoptera-Mantodea-Phasmatodea (Daniel Otte). The editors of *Nomina Insecta Nearctica* are very grateful to these contributors for the quality they have brought to these orders of the Insecta.

Every effort has been made to make the data in this directory as accurate and complete as possible. The compilers of the *Nomina Insecta Nearctica* series, however, are limited by two important constraints.

1. *Nomina Insecta Nearctica* is a compilation from the literature, not an original piece of scientific research. Although thousands of hours were spent checking original descriptions in order to compile correct spellings and original generic names, this checking of original sources, could not be done for all, or even most, of the names listed. Ultimately the quality and accuracy of the list depends upon the sources used in compiling this list. Many of the errors encountered in these sources have been found and corrected during the compilation process, but many still remain. We also recognize that despite both direct and computer assisted proof reading, we will have committed our own

mistakes. **Entomological Information Services** promises to correct such mistakes in the database whenever such mistakes are found or brought to our attention.

2. The *Nomina* series and its publisher, **Entomological Information Services**, is a commercial operation. The company receives no outside funds either public or private. **EIS** depends upon a rigid and rapid schedule of publication for its continued financial existence. A leisurely search for perfection is not possible.

The compilers of *Nomina Insecta Nearctica* and the *Nomina* series will be extremely grateful to anyone sending us corrections of any errors in the check lists. These corrections will be immediately added to the database and incorporated in any future revisions. We also strongly encourage everyone to publish lists of corrections and additions to the list consistent with the goals of the series.

It is the intention of **Entomological Information Services** to continuously update the databases used in creating the volumes of the *Nomina* series and to put out updated versions of the check lists when they are needed and financially viable. It would significantly assist us, and we would be extremely grateful, if authors could send us copies of their publications as they appear in print.

At last, among the many things *Nomina Insecta Nearctica* is not: it is not a Latin phrase. The proper Latin phrase is *Nomina Insectorum Nearcticae* (or at least we think it might be). The proper phrase does not exactly flow from the tongue and is not as informative as it could be. Therefore in the tradition of great taxonomists everywhere, we declare *Insecta* and *Nearctica* to be nouns in apposition. All letters, cards, e-mail messages, reviews, and other forms of communication correcting our Latin will be immediately recycled.

EPHEMEROPTERA

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INTRODUCTION

The check list of Ephemeroptera is adapted from McCafferty, W.P. 1996. The Ephemeroptera species of North America and index to their complete nomenclature. *Transactions of the American Entomological Society*, 122:1-54. Modifications have included the addition of generic synonymies; the adoption of original orthography for all valid species names; notation of the bases of all subordinate names, both generic and specific; the deletion of strictly Mexican species in North America; and the addition of recent applicable synonymies.

ALTERNATIVE FAMILY NAMES

The following is a list of names that historically have been used for extant families of Ephemeroptera. Valid family names are given in bold. Those valid families that are not represented in North America are indicated by (not NA). All invalid names are referred to a valid family by (see family).

Acanthametropodidae
(Ameletopsidae not NA)

Ameletidae

Ametropodidae

Analetrididae (see Acanthametropodidae)

Arthropleidae

Baetidae

Baetiscidae

Behningiidae

Binoculidae (see Prosopistomatidae)

Brachycercidae (see Caenidae)

Caenidae

Callibaetidae (see Baetidae)

Cloeonidae (see Baetidae)

(Coloburiscidae not NA)

(Dipteromimidae not NA)

Ecdyonuridae (see Heptageniidae)

Ecdyuridae (see Heptageniidae)

Ephemerellidae

Ephemeridae

Ephoridae (see Polymitarcyidae)

Euthyplociidae (see Polymitarcyidae)

Heptageniidae

Ichthybotidae (see Ephemeridae)

Isonychiidae

Leptohyphidae

Leptophlebiidae

Metamoniidae (see Nesameletidae)

Metretopodidae

Neophemeridae

(Nesameletidae not NA)

Oligoneuridae

(Oniscigastridae not NA)

Palingeniidae (see Ephemeridae)

Pentageniidae (see Ephemeridae)

Polymitarcyidae

Potamanthidae

(Prosopistomatidae not NA)

Pseudironidae

(Rallidentidae not NA)

Rhithrogenidae (see Heptageniidae)

(Siphlaenigmatidae not NA)

Siphonuridae

Siphloplectidae (see Metretopodidae)

Siphuridae (see Siphonuridae)

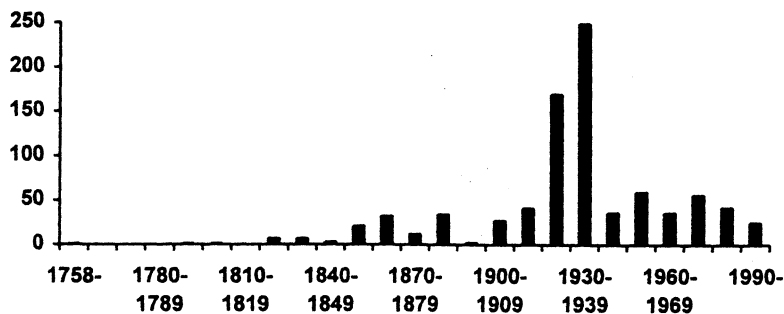
(Tricorythidae not NA)

STATISTICS

This section contains some raw statistics without comment. A list of the species group names proposed by decade is listed in the table below followed by a graph of the numbers. Allowance must be made in interpreting the graph for the truncated decades at the beginning and end of the graph. The tables on the following page are a break down of the number of valid species and names by family.

Species group names (valid and synonymous) described by decade.

1758 - 1759	0
1760 - 1769	0
1770 - 1779	0
1780 - 1789	0
1790 - 1799	1
1800 - 1809	1
1810 - 1819	1
1820 - 1829	6
1830 - 1839	7
1840 - 1849	3
1850 - 1859	21
1860 - 1869	32
1870 - 1879	12
1880 - 1889	34
1890 - 1899	2
1900 - 1909	27
1910 - 1919	41
1920 - 1929	169
1930 - 1939	248
1940 - 1949	36
1950 - 1959	59
1960 - 1969	36
1970 - 1979	56
1980 - 1989	42
1990 -	25



Family	# Names	# Valid
Acanthametropodidae	2	2
Ameletidae	42	32
Ametropodidae	3	3
Arthropleidae	1	1
Baetidae	193	123
Baetiscidae	14	12
Behningiidae	1	1
Caenidae	32	24
Ephemerellidae	124	93
Ephemeridae	34	15
Heptageniidae	187	129
Isonychiidae	28	17
Leptohyphidae	32	26
Leptophlebiidae	90	66
Metretopodidae	13	9
Neophemeridae	4	4
Oligoneuriidae	7	6
Polymitarcyidae	8	6
Potamanthidae	11	4
Pseudironidae	2	1
Siphonuridae	33	25
Total	861	599

CLASSIFICATION

The higher classification of the North American Ephemeroptera is adapted from McCafferty, W.P. 1991. Toward a phylogenetic classification of the Ephemeroptera (Insecta): a commentary on systematics. *Annals of the Entomological Society of America* 84: 343-360. The higher classification, however, remains somewhat unstable, in that it has been in part provisional and is still in transition to a strictly phylogenetic arrangement. For example, it remains unclear if the superfamily Heptagenioidea (variously treated as the suborder or infraorder Setisura) is derived with the Pisciforma or with the Rectracheata. The scarce cladistic data available at this level remain more suggestive of the arrangement below. Modifications reflected here at the suborder level include recognition of a separate suborder (Carapacea), which appears basally divergent from all other extant mayflies based on unpublished data and wing venation data mentioned by Wang, T.-Q., McCafferty, W.P. and Bae, Y.J. 1997. Sister relationship of the Neophemeridae and Caenidae (Ephemeroptera: Pannota). *Entomological News* 108: 52-56. Infraorders are purposely not listed at this time because of their provisional nature. The superfamily Siphonuroidea is taken in its broadest possible context (the concept of an Arenata infragroup being disallowed). The precise interrelationships of these siphonuroid families remain extremely tenuous and thus they can be listed only alphabetically. In addition, the possibility exists that the Siphonuroidea in the present sense is paraphyletic. Among the siphonuroid families, the family Analetrididae is disallowed based on McCafferty, W.P. and Wang, T.-Q. 1994. Relationships of the genera *Acanthametropus*, *Analettris*, and *Siphuriscus*, and re-evaluation of their higher classification (Ephemeroptera: Pisciforma). *Great Lakes Entomologist* 27: 209-215. The arrangement of superfamilies within the Rectracheata and ordering of families within the Ephemerioidea reflect my as yet unpublished data indicating the pannote mayflies (superfamilies Caenoidea + Ephemerelloidea below) and the tusked burrowing mayflies (superfamily Ephemerioidea below) share an immediate common ancestor. The arrangement of superfamilies of pannote mayflies follows McCafferty, W.P. and Edmunds, G.F. 1979. The higher classification of the Ephemeroptera and its evolutionary basis. *Annals of the Entomological Society of America* 72: 5-12, which is more consistent with recent findings by Wang *et al.* 1997. *ibid.* Nonetheless, additional modifications to the scheme of higher classification of the pannote mayflies are imminent based on data now being prepared for publication by Wang and McCafferty. Within the superfamily Heptagenioidea, family arrangement has been modified from McCafferty, W.P. 1991. The cladistics, classification, and evolution of the Heptagenioidea (Ephemeroptera). Pages 87-102 in **Overview and strategies of Ephemeroptera and Plecoptera**. J. Alba-Tercedor and A. Sanchez-Ortega (eds.). Sandhill Crane Press, Gainesville, based on additional data from Wang, T.-Q. and McCafferty, W.P. 1995. Relationships of the Arthropleidae, Heptageniidae, and Pseudironidae (Ephemeroptera: Heptagenioidea). *Entomological News* 106: 251-256. In the Ephemeridae, the subfamilies Ephemerinae and Hexageniinae have been combined to Ephemerinae to reflect additional cladistic findings by Bae, Y.J. and McCafferty, W.P. 1995. Ephemeroptera tusks and their evolution. Pages 377-405 in **Current directions in research on Ephemeroptera**. L. Corkum and J. Ciborowski (eds.). Canadian Scholars' Press, Toronto. In the Oligoneuriidae, the subfamily Homoeoneuriinae encompasses the genera *Homoeoneuria* and *Oligoneurisca*, and is the ultimate clade in the sequence of subfamily groups shown by McCafferty, W.P. 1990. Ephemeroptera. Pages 20-50. in **Insects from the Santana Formation, Lower Cretaceous, of Brazil**. D. Grimaldi (ed.). Bulletin of the American Museum of Natural History 195.

SUBORDER CARAPACEA

BAETISCIDAE

Baetisca.

SUBORDER RECTRACHEATA

Superfamily LEPTOPHLEBIOIDEA

LEPTOPHLEBIIDAE

Atalophlebiinae: *Choroterpes*, *Farrodes*, *Hydrosmilodon*, *Neochoroterpes*, *Thraulodes*, *Traverella*.

Leptophlebiinae: *Habrophlebia*, *Habrophlebiodes*, *Leptophlebia*, *Paraleptophlebia*.

Superfamily BEHNINGIOIDEA

BEHNINGIIDAE

Dolania.

Superfamily EPHEMEROIDEA

POTAMANTHIDAE

Anthopotamus.

EPHEMERIDAE

Ephemerinae: *Ephemera*, *Hexagenia*, *Litobrantha*.

Pentageniinae: *Pentagenia*.

POLYMITARCYIDAE

Polymitarcyinae: *Ephoron*.

Campsurinae: *Campsurus*, *Tortopus*.

Superfamily CAENOIDEA

NEOEPHEMERIDAE

Neoephemera.

CAENIDAE

Caeninae: *Amercaenis*, *Caenis*.

Brachycercinae: *Brachycercus*, *Cercobrachys*.

Superfamily EPHEMERELLOIDEA

EPHEMERELLIDAE

Attenella, *Caudatella*, *Caurinella*, *Drunella*, *Ephemerella*, *Eurylophella*, *Serratella*, *Timpanoga*.

LEPTOHYPHIDAE

Leptohyphes, *Tricorythodes*.

SUBORDER PISCIFORMA

Superfamily SIPHLONUROIDEA

ACANTHAMETROPODIDAE

Acanthametropus, *Analetris*.

AMELETIDAE

Ameletus.

AMETROPODIDAE

Ametropus.

NOMINA INSECTA NEARCTICA

BAETIDAE

Acentrella, Acerpenna, Apobaetis, Baetis, Baetodes, Barbaetis, Callibaetis, Camelobaetidius, Centroptilum, Cloeodes, Cloeon, Diphetor, Fallceon, Heterocloeon, Labiobaetis, Paracloeodes, Procloeon, Pseudocentroptiloides.

METRETOPODIDAE

Metretopus, Siphloplecton.

SIPHONURIDAE

Edmundsius, Parameletus, Siphlonisca, Siphonurus.

Superfamily HEPTAGENIOIDEA**ISONYCHIIDAE**

Isonychia.

OLIGONEURIIDAE

Oligoneuriinae: *Lachlania.*

Homoeoneuriinae: *Homoeoneuria.*

PSEUDIRONIDAE

Pseudiron.

ARTHROPLEIDAE

Arthroplea.

HEPTAGENIIDAE

Acanthomola, Anepeorus, Cinygma, Cinygmula, Epeorus, Heptagenia, Ironodes, Leucrocuta, Macdunnoa, Nixe, Rptoheptagenia, Rhithrogena, Stenacron, Stenonema.

ACANTHAMETROPODIDAE

Acanthametropus Tshernova 1948
Metreturus Burks 1953 Syn.

Acanthametropus pecatonica Burks 1953 (*Metreturus*)

Analetris Edmunds 1972

Analetris eximia Edmunds 1972 (*Analetris*)

AMELETIDAE

Ameletus Eaton 1885
Chimura Navás 1915 Syn.
Paleoameletus Lestage 1940 Syn.
Metreletus Demoulin 1951 Syn.

Ameletus amator Mayo 1939 (*Ameletus*)
Ameletus andersoni Zloty 1996 (*Ameletus*)
Ameletus bellulus Zloty 1996 (*Ameletus*)
Ameletus browni McDunnough 1933 (*Ameletus*)
Ameletus celer McDunnough 1934 (*Ameletus*)
Ameletus alticolus McDunnough 1934 Syn.
Ameletus celeroides McDunnough 1934 Syn.
Ameletus tuberculatus McDunnough 1939 Syn.
Ameletus cooki McDunnough 1929 (*Ameletus*)
Ameletus cryptostimulus Carle 1978 (*Ameletus*)
Ameletus dissitus Eaton 1885 (*Ameletus*)
Ameletus doddsianus Zloty 1996 (*Ameletus*)
Ameletus edmundsi Zloty 1996 (*Ameletus*)
Ameletus exquisitus Eaton 1885 (*Ameletus*)
Ameletus falsus McDunnough 1938 (*Ameletus*)
Ameletus imbellis Day 1952 (*Ameletus*)
Ameletus inopinatus Eaton 1887 (*Ameletus*)
Ameletus alpinus Bengtsson 1913 Syn.
Ameletus lineatus Traver 1932 (*Ameletus*)
Ameletus ludens Needham 1905 (*Ameletus*)
Ameletus majasculus Zloty 1996 (*Ameletus*)
Ameletus oregonensis McDunnough 1933 (*Ameletus*)
Ameletus pritchardi Zloty 1996 (*Ameletus*)
Ameletus sheperdi Traver 1934 (*Ameletus*)
Ameletus querulus McDunnough 1938 Syn.
Ameletus similior McDunnough 1928 (*Ameletus*)
Ameletus monta Mayo 1952 Syn.
Ameletus sparsatus McDunnough 1931 (*Ameletus*)
Ameletus aequivocus McDunnough 1934 Syn.
Ameletus subnotatus Eaton 1885 (*Ameletus*)
Ameletus suffusus McDunnough 1936 (*Ameletus*)
Ameletus tarteri Burrows 1987 (*Ameletus*)
Ameletus tertius McDunnough 1938 (*Ameletus*)
Ameletus tolai Zloty 1996 (*Ameletus*)
Ameletus validus McDunnough 1923 (*Ameletus*)
Ameletus vancouverensis McDunnough 1933 (*Ameletus*)
Ameletus facilis Day 1952 Syn.
Ameletus velox Dodds 1923 (*Ameletus*)
Ameletus connectus McDunnough 1936 Syn.
Ameletus connectina McDunnough 1939 Syn.
Ameletus vernalis McDunnough 1924 (*Ameletus*)
Ameletus walleyi Harper 1970 (*Ameletus*)

AMETROPODIDAE

Ametropus Albarda 1878

Ametropus albrighti Traver 1935 (*Ametropus*)
Ametropus ammophilus Allen and Edmunds 1976 (*Ametropus*)
Ametropus neavei McDunnough 1928 (*Ametropus*)

ARTHROPLEIDAE

Arthroplea Bengtsson 1908
Remipalpus Bengtsson 1908 Syn.
Haplogenia Blair 1929 Syn.

Arthroplea bipunctata McDunnough 1924 (*Cinygma*)

BAETIDAE

Acentrella Bengtsson 1912

Acentrella amplus Traver 1932 (*Baetis*)
Acentrella insignificans McDunnough 1926 (*Baetis*)
Acentrella lapponica Bengtsson 1912 (*Acentrella*)
Acentrella turbidum McDunnough 1924 (*Pseudocloeon*)
Cloeon carolina Banks 1924 Syn.

Acerpenna Waltz and McCafferty 1987

Acerpenna akataleptos McDunnough 1926 (*Baetis*)
Acerpenna harti McDunnough 1924 (*Baetis*)
Acerpenna macdunnoughi Ide 1937 (*Baetis*)
Acerpenna pygmaea Hagen 1861 (*Cloe*)
Baetis spiethi Berner 1940 Syn.

Apobaetis Day 1955

Apobaetis etawah Traver 1935 (*Pseudocloeon*)
Apobaetis indepressus Day 1955 (*Apobaetis*)

Baetis Leach 1815

Brachyphlebia Westwood 1840 Syn.
Montobaetis Kazlauskas 1972 Unav.
Rhodobaetis Kazlauskas 1972 Unav.
Vernobaetis Kazlauskas 1972 Unav.
Tatubaetis Kang and Yang 1994 Syn.

Baetis adonis Traver 1935 (*Baetis*)
Baetis alachua Berner 1940 (*Pseudocloeon*)
Baetis alius Day 1954 (*Baetis*)
Baetis armillatus McCafferty and Waltz 1990 (*Baetis*)
Pseudocloeon parvulum McDunnough 1932 Homo.
Baetis bicaudatus Dodds 1923 (*Baetis*)

- Baetis minimus* Dodds 1923 Syn.
Baetis bimaculatus Berner 1946 (Pseudocloeon)
Baetis brunneicolor McDunnough 1925 (Baetis)
Baetis hiemalis Leonard 1950 Syn.
Baetis anachris Burks 1953 Syn.
Baetis phyllis Burks 1953 Syn.
Baetis bundyi Lehmkuhl 1973 (Baetis)
Baetis bundyae Lehmkuhl 1973 Emend.
Baetis caelestis Allen and Murvosh 1983 (Baetis)
Baetis caurinus Edmunds and Allen 1957 (Baetis)
Baetis cinctatus McCafferty and Waltz 1990 (Baetis)
Pseudocloeon cingulatum McDunnough 1931 Homo.
Baetis diabolus Day 1954 (Baetis)
Baetis dubia Walsh 1862 (Cloe)
Cloeon chlorops McDunnough 1923 Syn.
Baetis elliotti Daggy 1945 (Pseudocloeon)
Pseudocloeon ida Daggy 1945 Syn.
Baetis flavistriga McDunnough 1921 (Baetis)
Baetis nanus McDunnough 1923 Syn.
Baetis phoebus McDunnough 1923 Syn.
Baetis pallidulus McDunnough 1924 Syn.
Baetis sinuosus Navás 1924 Syn.
Baetis cingulatus McDunnough 1925 Syn.
Baetis levitans McDunnough 1925 Syn.
Baetis ochris Burks 1953 Syn.
Baetis quebecensis Hubbard 1974 Syn.
Baetis foemina McDunnough 1936 (Baetis)
Baetis futile McDunnough 1931 (Pseudocloeon)
Baetis hudsonicus Ide 1937 (Baetis)
Baetis intercalaris McDunnough 1921 (Baetis)
Baetis lasallei Banks 1924 Syn.
Baetis magnus McCafferty and Waltz 1986 (Baetis)
Baetis libos Allen and Murvosh 1987 Syn.
Baetis moffati Dodds 1923 (Baetis)
Baetis notos Allen and Murvosh 1987 (Baetis)
Baetis palisadi Mayo 1952 (Baetis)
Baetis parallelus Banks 1924 (Baetis)
Baetis persecuta McDunnough 1939 (Baetis)
Baetis piscatoris Traver 1935 (Baetis)
Baetis pluto McDunnough 1925 (Baetis)
Baetis posticata Say 1823 (Cloeon)
Baetis punctiventris McDunnough 1923 (Pseudocloeon)
Pseudocloeon anoka Daggy 1945 Syn.
Pseudocloeon myrsum Burks 1953 Syn.
Pseudocloeon edmundsi Jensen 1969 Syn.
Baetis rubrolaterale McDunnough 1931 (Pseudocloeon)
Baetis rusticans McDunnough 1925 (Baetis)
Baetis sulfurosus Day 1954 (Baetis)
Baetis thermophilus McDunnough 1926 (Baetis)
Baetis tricaudatus Dodds 1923 (Baetis)
Baetis intermedius Dodds 1923 Syn.
Baetis incertans McDunnough 1925 Syn.
Baetis vagans McDunnough 1925 Syn.
Baetis jesmondensis McDunnough 1938 Syn.
Baetis veteris McDunnough 1924 (Pseudocloeon)
Baetis virile McDunnough 1923 (Pseudocloeon)
- Baetodes Needham and Murphy 1924**
- Baetodes alleni* McCafferty and Provonsha 1993 (Baetodes)
Baetodes arizonensis Koss 1972 (Baetodes)
Baetodes sigillatus Allen and Chao 1972 Syn.
Baetodes bibranchius McCafferty and Provonsha 1993 (Baetodes)
Baetodes edmundsi Koss 1972 (Baetodes)
Baetodes inermis Cohen and Allen 1972 (Baetodes)
- Barbaetis Waltz and McCafferty 1985**
- Barbaetis benfieldi* Kennedy 1985 (Barbaetis)
Barbaetis cestum Provonsha and McCafferty 1982 (Pseudocloeon)
- Callibaetis Eaton 1881**
Neobaetis Navás 1924 Syn.
- Callibaetis californicus* Banks 1900 (Callibaetis)
Callibaetis centralis Peters 1959 (Callibaetis)
Callibaetis ferruginea Walsh 1862 (Cloe)
Baetis tessellata Hagen 1861 Homo.
Callibaetis hageni Eaton 1885 Syn.
Callibaetis americanus Banks 1900 Syn.
Callibaetis coloradensis Banks 1900 Syn.
Callibaetis nigratus Banks 1918 Syn.
Callibaetis fuscus Dodds 1923 Syn.
Callibaetis carolus Traver 1935 Syn.
Callibaetis hebes Upholt 1936 Syn.
Callibaetis evergreenensis Thew 1959 Syn.
Callibaetis floridanus Banks 1900 (Callibaetis)
Callibaetis completa Banks 1930 Syn.
Callibaetis fluctans Walsh 1862 (Cloe)
Callibaetis traveriae Upholt 1937 Syn.
Callibaetis montanus Eaton 1885 (Callibaetis)
Callibaetis pallidus Banks 1900 (Callibaetis)
Callibaetis semicostatus Banks 1914 Syn.
Callibaetis pictus Eaton 1871 (Baetis)
Callibaetis signatus Banks 1918 Syn.
Callibaetis vitrea Dodds 1923 Syn.
Callibaetis pacificus Seemann 1927 Syn.
Callibaetis doddsi Traver 1935 Syn.
Callibaetis pretiosus Banks 1914 (Callibaetis)
Callibaetis punctilulus McCafferty and Provonsha 1993 (Callibaetis)
Callibaetis skokianus Needham 1903 (Callibaetis)
Callibaetis brevicostatus Daggy 1945 Syn.
- Camelobaetidium Demoulin 1966**
Dactylobaetis Traver and Edmunds 1968 Syn.
- Camelobaetidium mexicanus* Traver and Edmunds 1968 (Dactylobaetis)
Camelobaetidium musseri Traver and Edmunds 1968 (Dactylobaetis)
Dactylobaetis salinus Allen and Chao 1978 Syn.
Camelobaetidium waltzi McCafferty 1994 (Camelobaetidium)
Camelobaetidium warreni Traver and Edmunds 1968 (Dactylobaetis)
Dactylobaetis cepheus Traver and Edmunds 1968 Syn.
Dactylobaetis zenobia Traver and Edmunds 1968 Syn.
Dactylobaetis navis Allen and Chao 1978 Syn.
Dactylobaetis trivialis Allen and Chao 1978 Syn.
- Centroptilum Eaton 1869**
Neocloeon Traver 1932 Syn.
- Centroptilum alamance* Traver 1932 (Neocloeon)
Centroptilum bifurcatum McDunnough 1924 (Centroptilum)
Centroptilum selanderorum Edmunds 1954 (Centroptilum)
Centroptilum semirufum McDunnough 1926 (Centroptilum)
Centroptilum triangulifer McDunnough 1931 (Cloeon)
Centroptilum victoriae McDunnough 1938 (Centroptilum)
- Cloeodes Traver 1938**
Notobaetis Morihiro and Edmunds 1980 Syn.
- Cloeodes excogitatus* Waltz and McCafferty 1987 (Cloeodes)
Cloeodes macrolamellus Waltz and McCafferty 1987 (Cloeodes)

Cloeon Leach 1815

Cloe Burmeister 1839 Emend.

Cloeopsis Eaton 1866 Syn.

Austrocloeon Barnard 1940 Syn.

Cloeon cognatum Stephens 1835 (Cloeon)

Cloeon dipterum Linnaeus 1761 Misid.

Dipheter Waltz and McCafferty 1987

Dipheter devinctus Traver 1935 (Baetis)

Dipheter hageni Eaton 1885 (Baetis)

Cloe unicolor Hagen 1861 Homo.

Baetis parvus Dodds 1923 Syn.

Baetis herodes Burks 1953 Syn.

Fallceon Waltz and McCafferty 1987

Fallceon quilleri Dodds 1923 (Baetis)

Baetis endymion Traver 1935 Syn.

Baetis erebus Traver 1935 Syn.

Baetis cleptis Burks 1953 Syn.

Baetis leechi Burks 1954 Syn.

Baetis byblis Allen and Murvosh 1983 Syn.

Baetis buenoi Allen 1985 Syn.

Baetis sonora Allen and Murvosh 1987 Syn.

Heterocloeon McDunnough 1925

Rheobaetis Müller-Liebenau 1974 Syn.

Heterocloeon berner Müller-Liebenau 1974 (Rheobaetis)

Heterocloeon curiosum McDunnough 1923 (Centroptilum)

Rheobaetis traveræ Müller-Liebenau 1974 Syn.

Heterocloeon frivulus McDunnough 1925 (Baetis)

Heterocloeon petersi Müller-Liebenau 1974 (Rheobaetis)

Labiobaetis Novikova and Kluge 1987

Mullerbaetis Kang and Yang 1994 Syn.

Labiobaetis apache McCafferty and Waltz 1995 (Labiobaetis)

Labiobaetis dardanus McDunnough 1923 (Baetis)

Baetis elachistus Burks 1953 Syn.

Labiobaetis ephippiatus Traver 1935 (Baetis)

Labiobaetis frondalis McDunnough 1925 (Baetis)

Baetis australis Traver 1932 Syn.

Baetis baeticatus Burks 1953 Syn.

Labiobaetis longipalpus Morihara and McCafferty 1979 (Baetis)

Labiobaetis propinqua Walsh 1863 (Cloe)

Cloe vicina Walsh 1862 Homo.

Baetis spinosus McDunnough 1925 Syn.

Paracloeodes Day 1955

Paracloeodes minutum Daggy 1945 (Pseudocloeon)

Paracloeodes abditus Day 1955 Syn.

Procloeon Bengtsson 1915

Pseudocloeon Bengtsson 1914 Homo.

Procloeon album McDunnough 1926 (Centroptilum)

Procloeon asperatum Traver 1935 (Centroptilum)

Procloeon bellum McDunnough 1924 (Centroptilum)

Procloeon caliginosum McDunnough 1925 (Centroptilum)

Procloeon conturbatum McDunnough 1929 (Centroptilum)

Procloeon convexum Ide 1930 (Centroptilum)

Procloeon elsa Traver 1935 (Centroptilum)

Procloeon fragile McDunnough 1923 (Centroptilum)

Procloeon hobbsi Berner 1946 (Centroptilum)

Procloeon impicatum McDunnough 1924 (Cloeon)

Procloeon inanimatum McDunnough 1924 (Cloeon)

Procloeon ingens McDunnough 1923 (Cloeon)

Procloeon insignificans McDunnough 1925 (Cloeon)

Procloeon intermediale McDunnough 1931 (Centroptilum)

Procloeon irrubrum Lowen and Flannagan 1992 (Procloeon)

Procloeon mendax Walsh 1862 (Cloeon)

Procloeon minor McDunnough 1926 (Cloeon)

Procloeon oreophilum Edmunds 1954 (Centroptilum)

Procloeon ozburni McDunnough 1924 (Centroptilum)

Procloeon pennulatum Eaton 1870 (Centroptilum)

Centroptilum infrequens McDunnough 1924 Syn.

Procloeon quaesitum McDunnough 1931 (Centroptilum)

Procloeon rivulare Traver 1935 (Centroptilum)

Procloeon rubropictum McDunnough 1923 (Cloeon)

Procloeon rufostriatum McDunnough 1924 (Centroptilum)

Centroptilum bistrigatum Daggy 1945 Syn.

Procloeon simile McDunnough 1924 (Centroptilum)

Procloeon simplex McDunnough 1925 (Cloeon)

Procloeon texanum McCafferty and Provonsa 1993 (Procloeon)

Procloeon venosum Traver 1935 (Centroptilum)

Procloeon vicinum Hagen 1861 (Cloeon)

Procloeon viridoculis Berner 1940 (Centroptilum)

Procloeon walshi McDunnough 1929 (Centroptilum)

Pseudocentroptiloides Jacob 1986

Pseudocentroptiloides usa Waltz and McCafferty 1989

(*Pseudocentroptiloides*)

BAETISCIDAE

Baetisca Walsh 1863

Baetisca becki Schneider and Berner 1963 (Baetisca)

Baetisca berner Tarter and Kirchner 1978 (Baetisca)

Baetisca callosa Traver 1931 (Baetisca)

Baetisca carolina Traver 1931 (Baetisca)

Baetisca thomsenae Traver 1937 Syn.

Baetisca columbiana Edmunds 1960 (Baetisca)

Baetisca escambiensis Berner 1955 (Baetisca)

Baetisca gibbera Berner 1953 (Baetisca)

Baetisca lacustris McDunnough 1932 (Baetisca)

Baetisca bajkovi Neave 1934 Syn.

Baetisca laurentina McDunnough 1932 (Baetisca)

Baetisca obesa Say 1839 (Baetis)

Baetisca rogersi Berner 1940 (Baetisca)

Baetisca rubescens Provancher 1878 (Cloe)

BEHNINGIIDAE

Dolania Edmunds and Traver 1959

Dolania americana Edmunds and Traver 1959 (Dolania)

CAENIDAE

Amercaenis Provonsha and McCafferty 1985

Amercaenis ridens McDunnough 1931 (Caenis)

Brachycercus Curtis 1834

Eurycaenis Bengtsson 1917 Syn.

Brachycercus arcticus Soldán 1986 (Brachycercus)

Brachycercus berneri Soldán 1986 (Brachycercus)

Brachycercus floridicola Soldán 1986 Syn.

Brachycercus edmundsi Soldán 1986 (Brachycercus)

Brachycercus flavus Traver 1935 (Brachycercus)

Brachycercus lacustris Needham 1918 (Caenis)

Eurycaenis ideii Lestage 1931 Syn. *Eurycaenis* ~~1970 Syn.~~

Brachycercus maculatus Berner 1946 (Brachycercus)

Brachycercus pini Soldán 1986 Syn.

Brachycercus nasutus Soldán 1986 (Brachycercus)

Brachycercus nitidus Traver 1932 (Eurycaenis)

Brachycercus prudens McDunnough 1931 (Eurycaenis)

Brachycercus tuberculatus Soldán 1986 (Brachycercus)

Caenis Stephens 1835

Oxycypha Burmeister 1839 Syn.

Ordella *Campion* 1923 Syn.

Austrocaenis *Barnard* 1932 Syn.

Caenis amica Hagen 1861 (Caenis)

Caenis simulans McDunnough 1931 Syn.

Caenis anceps Traver 1935 (Caenis)

Caenis bajaensis Allen and Murvosh 1983 (Caenis)

Caenis candida Harper and Harper 1981 (Caenis)

Caenis diminuta Walker 1853 (Caenis)

Caenis hiliaris Say 1839 (Ephemera)

Caenis latipennis Banks 1907 (Caenis)

Caenis forcipata McDunnough 1931 Syn.

Caenis jocosa McDunnough 1931 Syn.

Caenis delicata Traver 1935 Syn.

Caenis gigas Burks 1953 Syn.

Caenis maccafferti Provonsha 1990 (Caenis)

Caenis punctata McDunnough 1931 (Caenis)

Caenis tardata McDunnough 1931 (Caenis)

Caenis youngi Roemhild 1984 (Caenis)

Cercobrachys Soldán 1986

Cercobrachys etowah Soldán 1986 (Cercobrachys)

Cercobrachys serpentis Soldán 1986 (Cercobrachys)

Attenella *soquele* Day 1954 (Ephemera)

Caudatella Edmunds 1959

Caudatella cascadia Allen and Edmunds 1961 (Ephemera)

Caudatella edmundsi Allen 1959 (Ephemera)

Caudatella heterocaudata McDunnough 1929 (Ephemera)

Ephemera *columbiella* McDunnough 1935 Syn.

Caudatella hystrix Traver 1934 (Ephemera)

Ephemera *spinosa* Mayo 1951 Syn.

Caudatella jacobi McDunnough 1939 (Ephemera)

Ephemera *orestes* Allen and Edmunds 1961 Syn.

Caurinella Allen 1984

Caurinella idahoensis Allen 1984 (Caurinella)

Drunella Needham 1905

Drunella allegheniensis Traver 1934 (Ephemera)

Drunella coloradensis Dodds 1923 (Ephemera)

Ephemera *wilsoni* Mayo 1952 Syn.

Drunella cornuta Morgan 1911 (Ephemera)

Ephemera *depressa* Ide 1930 Syn.

Drunella cornutella McDunnough 1931 (Ephemera)

Drunella doddsi Needham 1927 (Ephemera)

Drunella flavilinea McDunnough 1926 (Ephemera)

Ephemera *lapidula* McDunnough 1935 Syn.

Drunella grandis Eaton 1884 (Ephemera)

Ephemera *flavivincta* McDunnough 1934 Syn.

Ephemera *glacialis* Traver 1934 Syn.

Ephemera *ingens* McDunnough 1934 Syn.

Ephemera *proserpina* Traver 1934 Syn.

Ephemera *yosemite* Traver 1934 Syn.

Drunella lata Morgan 1911 (Ephemera)

Ephemera *inflata* McDunnough 1926 Syn.

Drunella longicornis Traver 1932 (Ephemera)

Drunella pelosa Mayo 1951 (Ephemera)

Drunella spinifera Needham 1927 (Ephemera)

Ephemera *autumnalis* McDunnough 1934 Syn.

Ephemera *sierra* Mayo 1952 Syn.

Drunella tuberculata Morgan 1911 (Ephemera)

Ephemera *conestee* Traver 1932 Syn.

Ephemera *cherokee* Traver 1937 Syn.

Drunella walkeri Eaton 1884 (Ephemera)

Baetis *fuscata* Walker 1853 Homo.

Ephemera *bispina* Needham 1905 Syn.

Drunella wayah Traver 1932 (Ephemera)

Ephemera Walsh 1863

Chitonophora *Bengtsson* 1908 Syn.

Ephemera *alleni* Jensen and Edmunds 1966 (Ephemera)

Ephemera *altana* Allen 1968 (Ephemera)

Ephemera *apopsis* McCafferty 1992 (Ephemera)

Ephemera *argo* Burks 1949 (Ephemera)

Ephemera *aurivillii* Bengtsson 1908 (Chitonophora)

Ephemera *aroni* Eaton 1908 Syn.

Ephemera *norda* McDunnough 1924 Syn.

Ephemera *concinna* Traver 1934 Syn.

Ephemera *berneri* Allen and Edmunds 1958 (Ephemera)

Ephemera *catawba* Traver 1932 (Ephemera)

Ephemera *choctawhatchee* Berner 1946 (Ephemera)

Ephemera *consimilis* Walsh 1862 (Ephemera)

Ephemera *crenula* Allen and Edmunds 1965 (Ephemera)

Ephemera *dorothaea* Needham 1908 (Ephemera)

Ephemera *excrucians* Walsh 1862 (Ephemera)

EPHEMERELLIDAE

Attenella Edmunds 1971

Attenella *Edmunds* 1959 Hom.

Attenella attenuata McDunnough 1925 (Ephemera)

Ephemera *hirsuta* Berner 1946 Syn.

Attenella delantala Mayo 1952 (Ephemera)

Attenella margarita Needham 1927 (Ephemera)

Ephemerella semiflava McDunnough 1926 Syn.

- Ephemerella floripara* McCafferty 1985 (Ephemerella)
Ephemerella fratercula McDunnough 1925 (Ephemerella)
Ephemerella hispida Allen and Edmunds 1965 (Ephemerella)
Ephemerella inconstans Traver 1932 (Ephemerella)
Ephemerella inermis Eaton 1884 (Ephemerella)
Ephemerella infrequens McDunnough 1924 (Ephemerella)
Ephemerella invaria Walker 1853 (Baetis)
Ephemerella lacustris Allen and Edmunds 1965 (Ephemerella)
Ephemerella maculata Traver 1934 (Ephemerella)

Ephemerella euterpe Traver 1934 Syn.

- Ephemerella moffatae* Allen 1977 (Ephemerella)
Ephemerella mollitia Seemann 1927 (Ephemerella)
Ephemerella mucronata Bengtsson 1909 (Chitonophora)
Ephemerella needhami McDunnough 1925 (Ephemerella)
Ephemerella ora Burks 1949 (Ephemerella)
Ephemerella quebecensis Provancher 1876 (Cloe)
Ephemerella rama Allen 1968 (Ephemerella)
Ephemerella rossi Allen and Edmunds 1965 (Ephemerella)
Ephemerella rotunda Morgan 1911 (Ephemerella)

Ephemerella vernalis Banks 1914 Syn.

Ephemerella feminina Needham 1924 Syn.

- Ephemerella septentrionalis* McDunnough 1925 (Ephemerella)
Ephemerella similia Allen and Edmunds 1965 (Ephemerella)
Ephemerella subvaria McDunnough 1931 (Ephemerella)
Ephemerella unicornis Needham 1905 (Ephemerella)
Ephemerella verruca Allen and Edmunds 1965 (Ephemerella)

Eurylophella Tiensuu 1935

Melanameletus Tiensuu 1935 Syn.

- Eurylophella aestiva* McDunnough 1931 (Ephemerella)
Eurylophella bartoni Allen 1977 (Ephemerella)
Eurylophella bicolor Clemens 1913 (Ephemerella)
Eurylophella bicoloroides McDunnough 1938 (Ephemerella)
Eurylophella coxalis McDunnough 1926 (Ephemerella)
Eurylophella doris Traver 1934 (Ephemerella)

Ephemerella trilineata Berner 1946 Syn.

- Eurylophella enoensis* Funk 1994 (Eurylophella)
Eurylophella funeralis McDunnough 1925 (Ephemerella)
Eurylophella lodi Mayo 1952 (Ephemerella)
Eurylophella lutulenta Clemens 1913 (Ephemerella)
Ephemerella lineata Clemens 1913 Syn.
Eurylophella macdunnoughi Funk 1994 (Eurylophella)
Eurylophella minimella McDunnough 1931 (Ephemerella)
Eurylophella poconoensis Funk 1994 (Eurylophella)
Eurylophella prudentialis McDunnough 1931 (Ephemerella)
Eurylophella temporalis McDunnough 1924 (Ephemerella)
Eurylophella versimilis McDunnough 1930 (Ephemerella)

Serratella Edmunds 1959

- Serratella carolina* Berner and Allen 1961 (Ephemerella)
Serratella deficiens Morgan 1911 (Ephemerella)

Ephemerella atrescens McDunnough 1925 Syn.

- Serratella frisoni* McDunnough 1927 (Ephemerella)
Serratella levis Day 1954 (Ephemerella)
Serratella micheneri Traver 1934 (Ephemerella)
Serratella molita McDunnough 1930 (Ephemerella)
Serratella sequoia Allen and Collins 1968 (Ephemerella)
Serratella serrata Morgan 1911 (Ephemerella)
Serratella serratoides McDunnough 1931 (Ephemerella)
Serratella sordida McDunnough 1925 (Ephemerella)
Serratella spiculosa Berner and Allen 1961 (Ephemerella)
Serratella teresa Traver 1934 (Ephemerella)

Ephemerella cognata Traver 1934 Syn.

- Serratella tibialis* McDunnough 1924 (Ephemerella)

Ephemerella angusta Traver 1934 Syn.

- Serratella velmae* Allen and Edmunds 1963 (Ephemerella)

Timpanoga Needham 1927

Dannella Edmunds 1959 Syn.

- Timpanoga hecuba* Eaton 1884 (Ephemerella)
Timpanoga lita Burks 1949 (Ephemerella)
Timpanoga provonshai McCafferty 1977 (Ephemerella)
Timpanoga simplex McDunnough 1925 (Ephemerella)

EPHEMERIDAE

Ephemera Linnaeus 1758

Nirvius Navás 1922 Syn.

- Ephemera blanda* Traver 1932 (Ephemera)
Ephemera compar Hagen 1875 (Ephemera)
Ephemera guttulata Pictet 1843 (Ephemera)
Ephemera simulans Walker 1853 (Ephemera)
Ephemera decora Walker 1853 Syn.
Palingenia natata Walker 1853 Syn.
Ephemera traveri Spieth 1938 (Ephemera)
Ephemera traveriae Spieth 1938 Emend.
Ephemera triplex Traver 1935 (Ephemera)
Ephemera varia Eaton 1883 (Ephemera)

Hexagenia Walsh 1863

- Hexagenia atrocaudata* McDunnough 1924 (Hexagenia)
Hexagenia bilineata Say 1824 (Baetis)
Hexagenia limbata Serville 1829 (Ephemera)
Palingenia occulta Walker 1853 Syn.
Palingenia viridescens Walker 1853 Syn.
Hexagenia munda Eaton 1883 Syn.
Hexagenia variabilis Eaton 1883 Syn.
Hexagenia venusta Eaton 1883 Syn.
Hexagenia affiliata McDunnough 1927 Syn.
Hexagenia carolina Traver 1931 Syn.
Hexagenia elegans Traver 1931 Syn.
Hexagenia marilandica Traver 1931 Syn.
Hexagenia mingo Traver 1931 Syn.
Hexagenia rosacea Traver 1931 Syn.
Hexagenia weewa Traver 1931 Syn.
Hexagenia pallens Traver 1935 Syn.
Hexagenia californica Upholt 1937 Syn.
Hexagenia kanuga Traver 1937 Syn.
Hexagenia orlando Traver 1931 (Hexagenia)
Hexagenia rigida McDunnough 1924 (Hexagenia)

Litobrantha McCafferty 1971

- Litobrantha recurvata* Morgan 1913 (Hexagenia)

Pentagenia Walsh 1863

- Pentagenia robusta* McDunnough 1926 (Pentagenia)
Pentagenia vittigera Walsh 1862 (Pentagenia)
Pentagenia quadripunctata Walsh 1863 Syn.

HEPTAGENIIDAE

Acanthomola Whiting and Lehmkuhl 1987

Acanthomola pubescens Whiting and Lehmkuhl 1987
(*Acanthomola*)

Anepeorus McDunnough 1925

Spinadis Edmunds and Jensen 1974 Syn.

Anepeorus rusticus McDunnough 1925 (*Anepeorus*)
Anepeorus simplex Walsh 1863 (*Heptagenia*)
Spinadis wallacei Edmunds and Jensen 1974 Syn.

Cinygma Eaton 1885

Cinygma dimicki McDunnough 1934 (*Cinygma*)
Cinygma integrum Eaton 1885 (*Cinygma*)
Cinygma lyriformis McDunnough 1924 (*Ecdyonurus*)
Ecdyonurus hyalinus Esben-Petersen 1916 Homo.
Ecdyonurus peterseni Lestage 1930 Syn.
Heptagenia abnormis Tshernova 1949 Syn.

Cinygmula McDunnough 1933

Cinygmula confusa McDunnough 1924 (*Cinygma*)
Cinygmula garterelli McDunnough 1934 (*Cinygmula*)
Cinygmula kootenai McDunnough 1943 (*Cinygmula*)
Cinygmula mimus Eaton 1885 (*Cinygma*)
Cinygmula par Eaton 1885 (*Cinygma*)
Cinygma hyalina McDunnough 1924 Syn.
Cinygmula ramaleyi Dodds 1923 (*Ecdyonurus*)
Iron tollandi Dodds 1923 Syn.
Cinygmula reticulata McDunnough 1934 (*Cinygmula*)
Cinygmula subaequalis Banks 1914 (*Heptagenia*)
Cinygma atlantica McDunnough 1924 Syn.
Cinygmula tarda McDunnough 1929 (*Cinygma*)
Cinygmula tioga Mayo 1952 (*Cinygmula*)
Cinygmula uniformis McDunnough 1934 (*Cinygmula*)

Epeorus Eaton 1881

Iron Eaton 1883 Syn.

Ironopsis Traver 1935 Syn.

Epeiron Demoulin 1964 Syn.

Epeorus albertae McDunnough 1924 (*Iron*)
Iron youngi Traver 1935 Syn.
Epeorus deceptiva McDunnough 1924 (*Cinygma*)
Epeorus dispar Traver 1933 (*Iron*)
Epeorus dulciana McDunnough 1935 (*Iron*)
Epeorus fragilis Morgan 1911 (*Iron*)
Iron tenuis Traver 1935 Syn.
Epeorus frisoni Burks 1946 (*Iron*)
Epeorus grandis McDunnough 1924 (*Iron*)
Epeorus hespera Banks 1924 (*Rhithrogena*)
Iron sanctagabriel Traver 1935 Syn.
Epeorus lagunitas Traver 1935 (*Iron*)
Epeorus longimanus Eaton 1885 (*Iron*)
Iron proprius Traver 1935 Syn.
Epeorus margarita Edmunds and Allen 1964 (*Epeorus*)
Epeorus namatus Burks 1946 (*Iron*)
Epeorus permagnus Traver 1935 (*Ironopsis*)
Epeorus pleuralis Banks 1910 (*Heptagenia*)

Iron confusus Traver 1935 Syn.

Iron fraudator Traver 1935 Syn.

Epeorus punctatus McDunnough 1925 (*Iron*)

Epeorus rubidus Traver 1933 (*Iron*)

Epeorus subpallidus Traver 1937 (*Iron*)

Epeorus suffusus McDunnough 1925 (*Iron*)

Epeorus vitrea Walker 1853 (*Palingenia*)

Epeorus humeralis Morgan 1911 Syn.

Heptagenia Walsh 1863

Heptagenia ^a*adequata* McDunnough 1924 (*Heptagenia*)
Heptagenia culacantha Evans, Botts, and Flowers 1985
(*Heptagenia*)

Heptagenia diabasia Burks 1946 (*Heptagenia*)

Heptagenia dolosa Traver 1935 (*Heptagenia*)

Heptagenia elegantula Eaton 1885 (*Rhithrogena*)

Heptagenia coxalis Banks 1914 Syn.

Heptagenia querula McDunnough 1924 Syn.

Heptagenia flavescens Walsh 1862 (*Palingenia*)

Heptagenia julia Traver 1933 (*Heptagenia*)

Heptagenia manifesta Eaton 1885 (*Rhithrogena*)

Baetis debilis Walsh 1862 Homo.

Heptagenia marginalis Banks 1910 (*Heptagenia*)

Heptagenia patoka Burks 1946 (*Heptagenia*)

Heptagenia pullus Clemens 1913 (*Ecdyurus*)

Ecdyurus grandis Clemens 1913 Syn.

Heptagenia solitaria McDunnough 1924 (*Heptagenia*)

Heptagenia townesi Traver 1935 (*Heptagenia*)

Ironodes Traver 1935

Ironodes arctus Traver 1935 (*Ironodes*)

Ironodes californicus Banks 1910 (*Iron*)

Ironodes flavipennis Traver 1935 (*Ironodes*)

Ironodes geminatum Eaton 1885 (*Cinygma*)

Ironodes lepidus Traver 1935 (*Ironodes*)

Ironodes nitidus Eaton 1885 (*Iron*)

Leucrocuta Flowers 1980

Leucrocuta aphrodite McDunnough 1926 (*Heptagenia*)

Leucrocuta hebe McDunnough 1924 (*Heptagenia*)

Leucrocuta jewetti Allen 1966 (*Heptagenia*)

Leucrocuta junio McDunnough 1924 (*Heptagenia*)

Leucrocuta maculipennis Walsh 1863 (*Heptagenia*)

Leucrocuta minerva McDunnough 1924 (*Heptagenia*)

Leucrocuta petersi Allen 1966 (*Heptagenia*)

Leucrocuta thetis Traver 1935 (*Heptagenia*)

Leucrocuta umbratica McDunnough 1931 (*Heptagenia*)

Leucrocuta walshi McDunnough 1926 (*Heptagenia*)

Macdunnoa Lehmkuhl 1979

Macdunnoa brunnea Flowers 1982 (*Macdunnoa*)

Macdunnoa nipawinia Lehmkuhl 1979 (*Macdunnoa*)

Macdunnoa persimplex McDunnough 1929 (*Heptagenia*)

Nixe Flowers 1980

Nixe criddlei McDunnough 1927 (*Heptagenia*)

Nixe flowersi McCafferty 1982 (*Nixe*)

Nixe horrida McDunnough 1926 (*Heptagenia*)

Nixe inconspicua McDunnough 1924 (*Heptagenia*)

Nixe kennedyi McDunnough 1924 (*Heptagenia*)

Nixe lucidipennis Clemens 1913 (*Ecdyurus*)

Nixe otiosa McDunnough 1935 (*Heptagenia*)

Nixe perfida McDunnough 1926 (Heptagenia)
 Nixe rodocki Traver 1935 (Heptagenia)
 Nixe rosea Traver 1935 (Heptagenia)
 Heptagenia rubroventris Traver 1935 Syn.
 Nixe rusticalis McDunnough 1931 (Heptagenia)
 Nixe simplicioideus McDunnough 1924 (Heptagenia)
 Heptagenia werestschagini Tshernova 1952 Syn.
 Rhithrogena imanica Bajkova 1972 Syn.
 Nixe spinosa Traver 1933 (Heptagenia)

Raptoheptagenia Whiting and Lehmkuhl 1987

Raptoheptagenia cruentata Walsh 1863 (Heptagenia)
 Heptagenia reversalis McDunnough 1924 Syn.

Rhithrogena Eaton 1881

Rhithrogena amica Traver 1935 (Rhithrogena)
 Rhithrogena anomala McDunnough 1928 (Rhithrogena)
 Rhithrogena brunneotincta McDunnough 1933 (Rhithrogena)
 Rhithrogena decora Day 1954 (Rhithrogena)
 Rhithrogena exilis Traver 1933 (Rhithrogena)
 Rhithrogena fasciata Traver 1933 (Rhithrogena)
 Rhithrogena flavianula McDunnough 1924 (Heptagenia)
 Rhithrogena fuscifrons Traver 1933 (Rhithrogena)
 Rhithrogena futilis McDunnough 1934 (Rhithrogena)
 Rhithrogena gaspeensis McDunnough 1933 (Rhithrogena)
 Rhithrogena hageni Eaton 1885 (Rhithrogena)
 Heptagenia brunnea Hagen 1875 Homo.
 Rhithrogena doddsi McDunnough 1926 Syn.
 Rhithrogena impersonata McDunnough 1925 (Heptagenia)
 Rhithrogena sanguinea Ide 1954 Syn.
 Rhithrogena jejuna Eaton 1885 (Rhithrogena)
 Baetis fusca Walker 1853 Homo.
 Rhithrogena morrisoni Banks 1924 (Epeorus)
 Iron petulans Seemann 1927 Syn.
 Rhithrogena pellucida Daggy 1945 (Rhithrogena)
 Rhithrogena plana Allen and Chao 1978 (Rhithrogena)
 Rhithrogena robusta Dodds 1923 (Rhithrogena)
 Rhithrogena rubicunda Traver 1937 (Rhithrogena)
 Rhithrogena uhari Traver 1933 (Rhithrogena)
 Rhithrogena undulatus Banks 1924 (Epeorus)
 Rhithrogena virilis McDunnough 1934 (Rhithrogena)
 Rhithrogena vitta Allen and Chao 1978 (Rhithrogena)

Stenacron Jensen 1974

Stenacron candidum Traver 1935 (Stenonema)
 Stenacron carolina Banks 1914 (Heptagenia)
 Stenacron floridense Lewis 1974 (Stenonema)
 Stenacron gildersleevei Traver 1935 (Stenonema)
 Stenacron interpunctata Say 1839 (Baetis)
 Baetis canadensis Walker 1853 Syn.
 Heptagenia frontalis Banks 1910 Syn.
 Ecdyonurus hetrotarsalis McDunnough 1933 Syn.
 Stenonema affine Traver 1933 Syn.
 Stenonema conjunctum Traver 1935 Syn.
 Stenonema majus Traver 1935 Syn.
 Stenonema ohioense Traver 1935 Syn.
 Stenonema proximum Traver 1935 Syn.
 Stenonema aerion Burks 1935 Syn.
 Stenacron minnetonka Daggy 1945 (Stenonema)
 Stenacron pallidum Traver 1933 (Stenonema)

Stenonema Traver 1933

Stenonema bednariki McCafferty 1981 (Stenonema)

Stenonema carlsoni Lewis 1974 (Stenonema)
 Stenonema exiguum Traver 1933 (Stenonema)
 Stenonema alabamiae Traver 1937 Syn.
 Stenonema quinquespinum Lewis 1974 Syn.
 Stenonema femorata Say 1823 (Baetis)
 Heptagenia tripunctata Banks 1910 Syn.
 Stenonema birdi Traver 1935 Syn.
 Stenonema scitulum Traver 1935 Syn.
 Stenonema flaveola Pictet 1843 (Baetis)
 Stenonema ithaca Clemens and Leonard 1924 (Heptagenia)
 Stenonema allegheniense Carle 1977 Syn.
 Stenonema lenati McCafferty 1990 (Stenonema)
 Stenonema lutea Clemens 1913 (Heptagenia)
 Stenonema mediopunctatus McDunnough 1926 (Ecdyonurus)
 Ecdyonurus nepotellus McDunnough 1933 Syn.
 Stenonema meririvulanum Carle and Lewis 1978 (Stenonema)
 Stenonema mexicana Ulmer 1920 (Heptagenia)
 Heptagenia integer McDunnough 1924 Syn.
 Stenonema bellum Traver 1933 Syn.
 Stenonema wabasha Daggy 1945 Syn.
 Stenonema metriotes Burks 1953 Syn.
 Stenonema modestus Banks 1910 (Epeorus)
 Heptagenia rubromaculata Clemens 1913 Syn.
 Ecdyonurus ruber McDunnough 1926 Syn.
 Stenonema annexum Traver 1933 Syn.
 Stenonema varium Traver 1933 Syn.
 Stenonema pudica Hagen 1861 (Ephemera)
 Stenonema pulchella Walsh 1862 (Palingenia)
 Stenonema sinclairi Lewis 1979 (Stenonema)
 Stenonema smithae Traver 1937 (Stenonema)
 Stenonema terminata Walsh 1862 (Palingenia)
 Heptagenia placita Banks 1910 Syn.
 Ecdyonurus bipunctatus McDunnough 1926 Syn.
 Stenonema lepton Burks 1946 Syn.
 Stenonema ares Burks 1953 Syn.
 Stenonema vicaria Walker 1853 (Baetis)
 Baetis tessellata Walker 1853 Syn.
 Heptagenia fusca Clemens 1913 Syn.
 Ecdyonurus rivulicolus McDunnough 1933 Syn.

ISONYCHIIDAE

Isonychia Eaton 1871

Jolia Eaton 1881 Syn.
Chironetes Eaton 1881 Emend.
Eatonia Ali 1970 Unav.

Isonychia arida Say 1839 (Baetis)
 Isonychia pictipes Traver 1934 Syn.
 Isonychia berneri Kondratieff and Voshell 1984 (Isonychia)
 Isonychia bicolor Walker 1853 (Palingenia)
 Chironetes albomanicatus Needham 1905 Syn.
 Isonychia pacoleta Traver 1932 Syn.
 Isonychia christina Traver 1934 Syn.
 Isonychia circe Traver 1934 Syn.
 Isonychia fattigi Traver 1934 Syn.
 Isonychia harperi Traver 1934 Syn.
 Isonychia matilda Traver 1934 Syn.
 Isonychia sadleri Traver 1934 Syn.
 Isonychia campestris McDunnough 1931 (Isonychia)
 Isonychia diversa Traver 1934 (Isonychia)
 Isonychia georgiae McDunnough 1931 (Isonychia)

Isonychia hoffmani Kondratieff and Voshell 1984 (Isonychia)
Isonychia intermedius Eaton 1885 (Chironetetes)
Isonychia notata Traver 1932 (Isonychia)
Isonychia obscura Traver 1932 (Isonychia)
Isonychia rufa McDunnough 1931 (Isonychia)
Isonychia sayi Burks 1953 (Isonychia)
Isonychia serrata Traver 1932 (Isonychia)
Isonychia sicca Walsh 1862 (Baetis)
Isonychia manca Eaton 1871 Syn.
Isonychia edmundsi Kondratieff and Voshell 1984 Syn.
Isonychia similis Traver 1932 (Isonychia)
Isonychia tuscalanensis Berner 1948 (Isonychia)
Isonychia velma Needham 1932 (Isonychia)

LEPTOHYPHIDAE

Leptohyphes Eaton 1882

Leptohyphes apache Allen 1967 (Leptohyphes)
Leptohyphes dolani Allen 1967 (Leptohyphes)
Leptohyphes ferruginus Allen and Brusca 1973 (Leptohyphes)
Leptohyphes michaeli Allen 1978 (Leptohyphes)
Leptohyphes mirus Allen 1967 (Leptohyphes)
Leptohyphes packeri Allen 1967 (Leptohyphes)
Leptohyphes phalarobanchus Kilgore and Allen 1973 Syn.
Leptohyphes paraguttatus Allen 1978 (Leptohyphes)
Leptohyphes quercus Kilgore and Allen 1973 (Leptohyphes)
Leptohyphes robacki Allen 1967 (Leptohyphes)
Leptohyphes sabinas Traver 1958 (Leptohyphes)
Leptohyphes consortis Allen and Brusca 1973 Syn.
Leptohyphes succinus Allen 1978 (Leptohyphes)
Leptohyphes vesus Allen 1978 (Leptohyphes)

Tricorythodes Ulmer 1920

Tricorythodes albilineatus Berner 1946 (Tricorythodes)
Tricorythodes allecta Needham 1905 (Caenis)
Tricorythus atratus McDunnough 1923 Syn.
Tricorythodes peridius Burks 1953 Syn.
Tricorythodes cobbi Alba-Tercedor and Flannagan 1995 (Tricorythodes)
Tricorythodes condylus Allen 1967 (Tricorythodes)
Tricorythodes corpulentus Kilgore and Allen 1973 (Tricorythodes)
Tricorythodes curvatus Allen 1977 (Tricorythodes)
Tricorythodes dimorphus Allen 1967 (Tricorythodes)
Tricorythodes edmundsi Allen 1967 (Tricorythodes)
Tricorythodes explicatus Eaton 1892 (Tricorythus)
Tricorythodes fictus Traver 1935 (Tricorythodes)
Tricorythodes minutus Traver 1935 (Tricorythodes)
Tricorythodes fallax Traver 1935 Syn.
Tricorythodes fallacina McDunnough 1939 Syn.
Tricorythodes mosegus Alba-Tercedor and Flannagan 1995 (Tricorythodes)
Tricorythodes stygiatus McDunnough 1931 (Tricorythodes)
Tricorythodes texanus Traver 1935 (Tricorythodes)

LEPTOPHLEBIIDAE

Choroterpes Eaton 1881

Choroterpes albiannulata McDunnough 1924 (Choroterpes)
Choroterpes basalis Banks 1900 (Leptophlebia)
Choroterpes ferruginea Traver 1934 Syn.
Choroterpes fusca Spieth 1938 Syn.
Choroterpes hubbelli Berner 1946 Syn.
Choroterpes inornata Eaton 1892 (Choroterpes)
Choroterpes oaxacaensis Brusca and Allen 1973 Syn.
Choroterpes terratoma Seemann 1927 (Choroterpes)

Farrodes Peters 1971

Farrodes texanus Davis 1987 (Farrodes)

Habrophlebia Eaton 1881

Habrophlebia vibrans Needham 1907 (Habrophlebia)
Habrophlebia jocosa Banks 1914 Syn.
Habrophlebia pusilla Traver 1932 Syn.

Habrophlebiodes Ulmer 1920

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Habrophlebiodes brunneipennis Berner 1946 (Habrophlebiodes)
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Siphloplecton brunneum Berner 1978 (Siphloplecton)
Siphloplecton costalense Spieth 1938 (Siphloplecton)
Siphloplecton fuscum Berner 1978 (Siphloplecton)
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Lachlania Hagen 1868

Neophlebia Navás 1912 Syn.
Noya Navás 1912 Syn.
Noyopsis Navás 1924 Syn.
Alloydia Needham 1932 Syn.

Lachlania dencyanna Koss 1970 (Lachlania)
Lachlania saskatchewanensis Ide 1941 (Lachlania)
Lachlania powelli Edmunds 1951 Syn.

POLYMITARCYIDAE

Campsurus Eaton 1868

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Eopolymitarcys Tshernova 1934 Syn.

Ephoron alba Say 1824 (Baetis)
 Ephoron leukon Williamson 1802 (Ephoron)

Tortopus Needham and Murphy 1924

Tortopus circumfluis Ulmer 1942 (Tortopus)
 Tortopus primus McDunnough 1924 (Campsurus)
Campsurus manitobensis Ide 1941 Syn.
 Tortopus puella Pictet 1843 (Palingenia)
Campsurus incertus Traver 1935 Syn.

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Anthopotamus McCafferty and Bae 1990

Anthopotamus distinctus Traver 1935 (Potamanthus)
 Anthopotamus myops Walsh 1863 (Ephemera)
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Potamanthus inequalis Needham 1909 Syn.
Potamanthus rufous Argo 1927 Syn.
 Anthopotamus neglectus Traver 1935 (Potamanthus)
 Anthopotamus verticis Say 1839 (Baetis)
Ephemera flaveola Walsh 1862 Syn.
Potamanthus diaphanus Needham 1907 Syn.
Potamanthus betteni Morgan 1913 Syn.
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Parameletus Bengtsson 1908
Eatonia Bengtsson 1904 Unav.
Potameis Bengtsson 1909 Syn.
Sparrea Esben-Petersen 1909 Syn.
Palmenia Aro 1910 Syn.
Siphonuroides McDunnough 1923 Syn.

Parameletus chelifera Bengtsson 1908 (Parameletus)
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Siphlonurus inflatus McDunnough 1931 Syn.
 Siphlonurus phyllis McDunnough 1923 (Siphlonurus)
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becki Schneider and Berner *Baetisca* (Baetiscidae) *Baetisca*
bednariki McCafferty *Stenonema* (Heptageniidae) *Stenonema*
bellulus Zloty *Ameletus* (Ameletidae) *Ameletus*
bellum McDunnough *Centroptilum* (Baetidae) *Procloeon*
bellum Traver *Stenonema* (Heptageniidae) *Stenonema mexicana*
benfieldi Kennedy *Barbaetis* (Baetidae) *Barbaetis*
berenice McDunnough *Siphonurus* (Siphonuridae) *Siphonurus*
typicus
berneri Allen and Edmunds *Ephemerella* (Ephemerellidae)
Ephemerella
berneri Kondratieff and Voshell *Isonychia* (Isonychiidae) *Isonychia*
berneri Müller-Liebenau *Rheobaetis* (Baetidae) *Heterocloeon*
berneri Soldán *Brachycercus* (Caenidae) *Brachycercus*

berneri Tarter and Kirchner Baetisca (Baetiscidae) Baetisca
 betteni Morgan Potamanthus (Potamanthidae) Anthopotamus
 verticis
 betteni Needham Choroterpes (Leptophlebiidae) Habrophlebiodes
 americana
 bibranchius McCafferty and Provonsha Baetodes (Baetidae)
 Baetodes
 bicaudatus Dodds Baetis (Baetidae) Baetis
 bicolor Clemens Ephemerella (Ephemerellidae) Eurylophella
 bicolor McDunnough Neoephemera (Neoephemeridae)
 Neoephemera
 bicolor Walker Palingenia (Isonychiidae) Isonychia
 bicoloroides McDunnough Ephemerella (Ephemerellidae)
 Eurylophella
 bicornuta McDunnough Leptophlebia (Leptophlebiidae)
 Paraleptophlebia
 bifurcatum McDunnough Centropitilum (Baetidae) Centropitilum
 bilineata Say Baetis (Ephemeridae) Hexagenia
 bimaculatus Berner Pseudocloeon (Baetidae) Baetis
 bipunctata McDunnough Cinygma (Arthropleidae) Arthroplea
 bipunctatus McDunnough Ecdyonurus (Heptageniidae) Stenonema
 terminata
 birdi Traver Stenonema (Heptageniidae) Stenonema femorata
 bispina Needham Ephemerella (Ephemerellidae) Drunella walkeri
 bistrigatum Daggy Centropitilum (Baetidae) Procloeon
 rufostrigatum
 blanda Traver Ephemera (Ephemeridae) Ephemera
 borealis Eaton Heptagenia (Metretopodidae) Metretopus
 bradleyi Needham Leptophlebia (Leptophlebiidae) Leptophlebia
 brevicostatus Daggy Callibaetis (Baetidae) Callibaetis skokianus
 browni McDunnough Ameletus (Ameletidae) Ameletus
 brunnea Flowers Macdunnoa (Heptageniidae) Macdunnoa
 brunnea Hagen Heptagenia (Heptageniidae) Rhithrogena hageni
 brunneicolor McDunnough Baetis (Baetidae) Baetis
 brunneipennis Berner Habrophlebiodes (Leptophlebiidae)
 Habrophlebiodes
 brunneipennis McDunnough Leptophlebia (Leptophlebiidae)
 Paraleptophlebia
 brunneotincta McDunnough Rhithrogena (Heptageniidae)
 Rhithrogena
 brunneum Berner Siphloplecton (Metretopodidae) Siphloplecton
 brunneus Koss Thraulodes (Leptophlebiidae) Thraulodes

buenoi Allen Baetis (Baetidae) Fallceon quilleri
 bundyae Lehmkuhl Baetis (Baetidae) Baetis bundyi
 bundyi Lehmkuhl Baetis (Baetidae) Baetis
 byblis Allen and Murvosh Baetis (Baetidae) Fallceon quilleri

C

cacheca Day Paraleptophlebia (Leptophlebiidae) Paraleptophlebia
 caelestis Allen and Murvosh Baetis (Baetidae) Baetis
 cahabensis Pescador and Peters Homoeoneuria (Oligoneuriidae)
 Homoeoneuria
 calcarita Robotham and Allen Paraleptophlebia (Leptophlebiidae)
 Paraleptophlebia
 californica Traver Paraleptophlebia (Leptophlebiidae)
 Paraleptophlebia
 californica Upholt Hexagenia (Ephemeridae) Hexagenia limbata
 californicus Banks Callibaetis (Baetidae) Callibaetis
 californicus Banks Iron (Heptageniidae) Ironodes
 caliginosum McDunnough Centropitilum (Baetidae) Procloeon
 callosa Traver Baetisca (Baetiscidae) Baetisca
 campestris McDunnough Isonychia (Isonychiidae) Isonychia
 canadensis Walker Baetis (Heptageniidae) Stenacron interpunctata
 candida Harper and Harper Caenis (Caenidae) Caenis

candidum Traver Stenonema (Heptageniidae) Stenacron
 carlsoni Lewis Stenonema (Heptageniidae) Stenonema
 carolina Banks Cloeon (Baetidae) Acentrella turbidum
 carolina Banks Heptagenia (Heptageniidae) Stenacron
 carolina Berner and Allen Ephemerella (Ephemerellidae) Serratella
 carolina Traver Baetisca (Baetiscidae) Baetisca
 carolina Traver Hexagenia (Ephemeridae) Hexagenia limbata
 carolus Traver Callibaetis (Baetidae) Callibaetis ferruginea
 cascadia Allen and Edmunds Ephemerella (Ephemerellidae)
 Caudatella
 castanea Kilgore and Allen Traverella (Leptophlebiidae) Traverella
 albertanus
 catawba Traver Ephemerella (Ephemerellidae) Ephemerella
 caurinus Edmunds and Allen Baetis (Baetidae) Baetis
 celer McDunnough Ameletus (Ameletidae) Ameletus
 celeroides McDunnough Ameletus (Ameletidae) Ameletus celer
 celeteria Berner Habrophlebiodes (Leptophlebiidae)
 Habrophlebiodes
 centralis McDunnough Pseudiron (Pseudironidae) Pseudiron
 centralis Peters Callibaetis (Baetidae) Callibaetis
 cepheus Traver and Edmunds Dactylobaetis (Baetidae)
 Camelobaetis warreni
 cestum Provonsha and McCafferty Pseudocloeon (Baetidae)
 Barbaetis
 chelifer Bengtsson Pameletus (Siphonuridae) Pameletus
 cherokee Traver Ephemerella (Ephemerellidae) Drunella
 tuberculata
 chlorops McDunnough Cloeon (Baetidae) Baetis dubia
 choctawhatchee Berner Ephemerella (Ephemerellidae) Ephemerella
 christina Traver Isonychia (Isonychiidae) Isonychia bicolor
 cinctatus McCafferty and Waltz Baetis (Baetidae) Baetis
 cingulatum McDunnough Pseudocloeon (Baetidae) Baetis cinctatus
 cingulatus McDunnough Baetis (Baetidae) Baetis flavistriga
 circe Traver Isonychia (Isonychiidae) Isonychia bicolor
 circumfluis Ulmer Tortopus (Polymitarcyidae) Tortopus
 clara McDunnough Leptophlebia (Leptophlebiidae) Paraleptophlebia
 cleptis Burks Baetis (Baetidae) Fallceon quilleri
 cobbi Alba-Tercedor and Flannagan Tricorythodes (Leptohyphidae)
 Tricorythodes
 cognata Traver Ephemerella (Ephemerellidae) Serratella teresa
 cognatum Stephens Cloeon (Baetidae) Cloeon
 collinus Traver Blasturus (Leptophlebiidae) Leptophlebia
 coloradensis Banks Callibaetis (Baetidae) Callibaetis ferruginea
 coloradensis Dodds Ephemerella (Ephemerellidae) Drunella
 columbiae McDunnough Pameletus (Siphonuridae) Pameletus
 columbiana Edmunds Baetisca (Baetiscidae) Baetisca
 columbianus McDunnough Siphonurus (Siphonuridae) Siphonurus
 columbiella McDunnough Ephemerella (Ephemerellidae)
 Caudatella heterocaudata
 compar Hagen Ephemera (Ephemeridae) Ephemera
 compar Traver Paraleptophlebia (Leptophlebiidae)
 Paraleptophlebia associata
 completa Banks Callibaetis (Baetidae) Callibaetis floridanus
 compressa Berner Neoephemera (Neoephemeridae) Neoephemera
 concinna Walker Palingenia (Leptophlebiidae) Leptophlebia cupida
 concinnata Traver Ephemerella (Ephemerellidae) Ephemerella
 aurivillii
 condylus Allen Tricorythodes (Leptohyphidae) Tricorythodes
 conestee Traver Ephemerella (Ephemerellidae) Drunella tuberculata
 confusa McDunnough Cinygma (Heptageniidae) Cinygmula
 confusus Traver Iron (Heptageniidae) Epeorus pleuralis
 conjunctum Traver Stenonema (Heptageniidae) Stenacron
 interpunctata
 connectina McDunnough Ameletus (Ameletidae) Ameletus velox
 connectus McDunnough Ameletus (Ameletidae) Ameletus velox
 consimilis Walsh Ephemerella (Ephemerellidae) Ephemerella

consortis Allen and Brusca *Leptohyphes* (*Leptohyphidae*)

Leptohyphes sabinas

conturbatum McDunnough *Centropitulum* (*Baetidae*) *Procloeon*

convexum Ide *Centropitulum* (*Baetidae*) *Procloeon*

cooki McDunnough *Ameletus* (*Ameletidae*) *Ameletus*

cornuta Morgan *Ephemerella* (*Ephemerellidae*) *Drunella*

cornutella McDunnough *Ephemerella* (*Ephemerellidae*) *Drunella*

corpulentus Kilgore and Allen *Tricorythodes* (*Leptohyphidae*)

Tricorythodes

costalense Spieth *Siphloplecton* (*Metretopodidae*) *Siphloplecton*

coxalis Banks *Heptagenia* (*Heptageniidae*) *Heptagenia elegantula*

coxalis McDunnough *Ephemerella* (*Ephemerellidae*) *Eurylophella*

crenula Allen and Edmunds *Ephemerella* (*Ephemerellidae*)

Ephemerella

criddlei McDunnough *Heptagenia* (*Heptageniidae*) *Nixe*

crocatius Allen *Choroterpes* (*Leptophlebiidae*) *Neochoroterpes*

nanita

croesus McDunnough *Siphonurides* (*Siphonuridae*) *Parameletus*

cruentata Walsh *Heptagenia* (*Heptageniidae*) *Raptoheptagenia*

cryptostimulus Carle *Ameletus* (*Ameletidae*) *Ameletus*

culacantha Evans, Botts, and Flowers *Heptagenia* (*Heptageniidae*)

Heptagenia

cupida Say *Ephemerella* (*Leptophlebiidae*) *Leptophlebia*

curiosum McDunnough *Centropitulum* (*Baetidae*) *Heterocloeon*

curvatus Allen *Tricorythodes* (*Leptohyphidae*) *Tricorythodes*

d

dardanus McDunnough *Baetis* (*Baetidae*) *Labiobaetis*

debilis Walker *Baetis* (*Leptophlebiidae*) *Paraleptophlebia*

debilis Walsh *Baetis* (*Heptageniidae*) *Heptagenia manifesta*

deceptiva McDunnough *Cinygma* (*Heptageniidae*) *Epeorus*

decolorata Hagen *Palingenia* (*Polymitarcyidae*) *Campsurus*

decora Day *Rhithrogena* (*Heptageniidae*) *Rhithrogena*

decora Walker *Ephemerella* (*Ephemerellidae*) *Ephemerella similans*

decorus Traver *Siphonurus* (*Siphonuridae*) *Siphonurus*

deficiens Morgan *Ephemerella* (*Ephemerellidae*) *Serratella*

delantala Mayo *Ephemerella* (*Ephemerellidae*) *Attenella*

delicata Traver *Caenis* (*Caenidae*) *Caenis latipennis*

demaryi Kondratieff and Voshell *Siphonurus* (*Siphonuridae*)

Siphonurus

dencyanna Koss *Lachlania* (*Oligoneuriidae*) *Lachlania*

depressa Ide *Ephemerella* (*Ephemerellidae*) *Drunella cornuta*

devinctus Traver *Baetis* (*Baetidae*) *Dipheter*

diabasia Burks *Heptagenia* (*Heptageniidae*) *Heptagenia*

diabulus Day *Baetis* (*Baetidae*) *Baetis*

diaphanus Needham *Potamanthus* (*Potamanthidae*) *Anthopotamus*

verticis

dimicki McDunnough *Cinygma* (*Heptageniidae*) *Cinygma*

diminuta Walker *Caenis* (*Caenidae*) *Caenis*

dimorphus Allen *Tricorythodes* (*Leptohyphidae*) *Tricorythodes*

dipterum Linnaeus *Cloeon* (*Baetidae*) *Cloeon cognatum*

dispar Traver Iron (*Heptageniidae*) *Epeorus*

dissitus Eaton *Ameletus* (*Ameletidae*) *Ameletus*

distinctus Traver *Potamanthus* (*Potamanthidae*) *Anthopotamus*

diversa Traver *Isonychia* (*Isonychiidae*) *Isonychia*

doddsi McDunnough *Rhithrogena* (*Heptageniidae*) *Rhithrogena*

hageni

doddsi Needham *Ephemerella* (*Ephemerellidae*) *Drunella*

doddsi Traver *Callibaetis* (*Baetidae*) *Callibaetis pictus*

doddsianus Zloty *Ameletus* (*Ameletidae*) *Ameletus*

dolani Allen *Leptohyphes* (*Leptohyphidae*) *Leptohyphes*

dolani Edmunds, Berner, and Traver *Homoeoneuria* (*Oligoneuriidae*)

Homoeoneuria

dolosa Traver *Heptagenia* (*Heptageniidae*) *Heptagenia*

doris Traver *Ephemerella* (*Ephemerellidae*) *Eurylophella*

dorothea Needham *Ephemerella* (*Ephemerellidae*) *Ephemerella*

dubia Walsh *Cloe* (*Baetidae*) *Baetis*

dulciana McDunnough Iron (*Heptageniidae*) *Epeorus*

e

edmundsi Allen *Ephemerella* (*Ephemerellidae*) *Caudatella*

edmundsi Allen *Tricorythodes* (*Leptohyphidae*) *Tricorythodes*

edmundsi Jensen *Pseudocloeon* (*Baetidae*) *Baetis punctiventris*

edmundsi Kondratieff and Voshell *Isonychia* (*Isonychiidae*)

Isonychia sicca

edmundsi Koss *Baetodes* (*Baetidae*) *Baetodes*

edmundsi Soldán *Brachycercus* (*Caenidae*) *Brachycercus*

edmundsi Zloty *Ameletus* (*Ameletidae*) *Ameletus*

elachistus Burks *Baetis* (*Baetidae*) *Labiobaetis dardanus*

elegans Traver *Hexagenia* (*Ephemeridae*) *Hexagenia limbata*

elegantula Eaton *Rhithrogena* (*Heptageniidae*) *Heptagenia*

elliotti Daggy *Pseudocloeon* (*Baetidae*) *Baetis*

elsa Traver *Centropitulum* (*Baetidae*) *Procloeon*

endymion Traver *Baetis* (*Baetidae*) *Fallceon quillieri*

enoensis Funk *Eurylophella* (*Ephemerellidae*) *Eurylophella*

ephippiatus Traver *Baetis* (*Baetidae*) *Labiobaetis*

erebus Traver *Baetis* (*Baetidae*) *Fallceon quillieri*

escambiensis Berner *Baetisca* (*Baetiscidae*) *Baetisca*

etowah Soldán *Cercobrachys* (*Caenidae*) *Cercobrachys*

etowah Traver *Pseudocloeon* (*Baetidae*) *Apobaetis*

euterpe Traver *Ephemerella* (*Ephemerellidae*) *Ephemerella*

maculata

evergreenensis Thew *Callibaetis* (*Baetidae*) *Callibaetis ferruginea*

excogitatus Waltz and McCafferty *Cloeodes* (*Baetidae*) *Cloeodes*

excrucians Walsh *Ephemerella* (*Ephemerellidae*) *Ephemerella*

exiguum Traver *Stenonema* (*Heptageniidae*) *Stenonema*

exilis Traver *Rhithrogena* (*Heptageniidae*) *Rhithrogena*

eximia Edmunds *Anaetris* (*Acanthametropodidae*) *Anaetris*

explicatus Eaton *Tricorythus* (*Leptohyphidae*) *Tricorythodes*

exquisitus Eaton *Ameletus* (*Ameletidae*) *Ameletus*

f

facilis Day *Ameletus* (*Ameletidae*) *Ameletus vancouverensis*

falcula Traver *Paraleptophlebia* (*Leptophlebiidae*) *Paraleptophlebia*

fallacina McDunnough *Tricorythodes* (*Leptohyphidae*)

Tricorythodes minutus

fallax Traver *Tricorythodes* (*Leptohyphidae*) *Tricorythodes minutus*

falsus McDunnough *Ameletus* (*Ameletidae*) *Ameletus*

fasciata Traver *Rhithrogena* (*Heptageniidae*) *Rhithrogena*

fattigi Traver *Isonychia* (*Isonychiidae*) *Isonychia bicolor*

feminina Needham *Ephemerella* (*Ephemerellidae*) *Ephemerella*

rotunda

femorata Provancher *Baetis* (*Siphonuridae*) *Siphonurus alternata*

femorata Say *Baetis* (*Heptageniidae*) *Stenonema*

femorata Walsh *Baetis* (*Metretopodidae*) *Siphloplecton interlineata*

ferruginea Traver *Choroterpes* (*Leptophlebiidae*) *Choroterpes*

basalis

ferruginea Walsh *Cloe* (*Baetidae*) *Callibaetis*

ferruginus Allen and Brusca *Leptohyphes* (*Leptohyphidae*)

Leptohyphes

fictus Traver *Tricorythodes* (*Leptohyphidae*) *Tricorythodes*

flaveola Pictet *Baetis* (*Heptageniidae*) *Stenonema*

flaveola Walsh *Ephemerella* (*Potamanthidae*) *Anthopotamus verticis*

flavescens Walsh *Palingenia* (*Heptageniidae*) *Heptagenia*

flavianula McDunnough *Heptagenia* (*Heptageniidae*) *Rhithrogena*

flavilinea McDunnough *Ephemerella* (*Ephemerellidae*) *Drunella*

flavipennis Traver *Ironodes* (*Heptageniidae*) *Ironodes*

flavistriga McDunnough *Baetis* (*Baetidae*) *Baetis*

flavincta McDunnough *Ephemerella* (Ephemerellidae) *Drunella grandis*

flavus Traver *Brachycercus* (Caenidae) *Brachycercus flexus* Clemens *Siphilurus* (Metretopodidae) *Siphloplecton basalis* floridanus Banks *Callibaetis* (Baetidae) *Callibaetis floridense* Lewis *Stenonema* (Heptageniidae) *Stenacron floridicola* Soldán *Brachycercus* (Caenidae) *Brachycercus berneri* floripara McCafferty *Ephemerella* (Ephemerellidae) *Ephemerella flowersi* McCafferty *Nixe* (Heptageniidae) *Nixe fluctuans* Walsh *Cloe* (Baetidae) *Callibaetis foemina* McDunnough *Baetis* (Baetidae) *Baetis forcipata* McDunnough *Caenis* (Caenidae) *Caenis latipennis* fragile McDunnough *Centroptilum* (Baetidae) *Procloeon fragilis* Morgan *Iron* (Heptageniidae) *Epeorus fratercula* McDunnough *Ephemerella* (Ephemerellidae) *Ephemerella fraudator* Traver *Iron* (Heptageniidae) *Epeorus pleuralis* frisoni Burks *Iron* (Heptageniidae) *Epeorus frisoni* McDunnough *Ephemerella* (Ephemerellidae) *Serratella frivolus* McDunnough *Baetis* (Baetidae) *Heterocloeon frondalis* McDunnough *Baetis* (Baetidae) *Labiobaetis frontalis* Banks *Heptagenia* (Heptageniidae) *Stenacron interpunctata*

funeralis McDunnough *Ephemerella* (Ephemerellidae) *Eurylophella fusca* Clemens *Heptagenia* (Heptageniidae) *Stenonema vicaria fusca* Spieth *Choroterpes* (Leptophlebiidae) *Choroterpes basalis fusca* Walker *Baetis* (Heptageniidae) *Rhithrogena jejuna fuscata* Walker *Baetis* (Ephemerellidae) *Drunella walkeri fuscifrons* Traver *Rhithrogena* (Heptageniidae) *Rhithrogena fuscum* Berner *Siphloplecton* (Metretopodidae) *Siphloplecton fuscus* Dodds *Callibaetis* (Baetidae) *Callibaetis ferruginea futile* McDunnough *Pseudocloeon* (Baetidae) *Baetis futilis* McDunnough *Rhithrogena* (Heptageniidae) *Rhithrogena*

g

garterelli McDunnough *Cinygmula* (Heptageniidae) *Cinygmula gaspeensis* McDunnough *Rhithrogena* (Heptageniidae) *Rhithrogena geminatum* Eaton *Cinygmula* (Heptageniidae) *Ironodes georgiae* McDunnough *Isonychia* (Isonychiidae) *Isonychia georgiana* Traver *Paraleptophlebia* (Leptophlebiidae)

Paraleptophlebia

gibbera Berner *Baetisca* (Baetiscidae) *Baetisca gigas* Burks *Caenis* (Caenidae) *Caenis latipennis* gildersleevei Traver *Stenonema* (Heptageniidae) *Stenacron glacialis* Traver *Ephemerella* (Ephemerellidae) *Drunella grandis* gonzalesi Traver and Edmunds *Thraulodes* (Leptophlebiidae)

Thraulodes

gracilis Traver *Blasturus* (Leptophlebiidae) *Leptophlebia johnsoni grandis* Clemens *Ecdyurus* (Heptageniidae) *Heptagenia pullus grandis* Eaton *Ephemerella* (Ephemerellidae) *Drunella grandis* McDunnough *Iron* (Heptageniidae) *Epeorus grandis* Traver *Blasturus* (Leptophlebiidae) *Leptophlebia gravastellus* Eaton *Blasturus* (Leptophlebiidae) *Leptophlebia gregalis* Eaton *Leptophlebia* (Leptophlebiidae) *Paraleptophlebia guttata* McDunnough *Leptophlebia* (Leptophlebiidae)

Paraleptophlebia

guttulata Pictet *Ephemera* (Ephemeridae) *Ephemera*

h

hageni Eaton *Baetis* (Baetidae) *Diphetor hageni* Eaton *Callibaetis* (Baetidae) *Callibaetis ferruginea hageni* Eaton *Rhithrogena* (Heptageniidae) *Rhithrogena harperi* Traver *Isonychia* (Isonychiidae) *Isonychia bicolor harti* McDunnough *Baetis* (Baetidae) *Acerpenna*

hebe McDunnough *Heptagenia* (Heptageniidae) *Leucrocuta hebes* Upholt *Callibaetis* (Baetidae) *Callibaetis ferruginea hebes* Walker *Ephemera* (Leptophlebiidae) *Leptophlebia cupida* hecuba Eaton *Ephemerella* (Ephemerellidae) *Timpanoga helena* Day *Paraleptophlebia* (Leptophlebiidae) *Paraleptophlebia herodes* Burks *Baetis* (Baetidae) *Diphetor hageni hespera* Banks *Rhithrogena* (Heptageniidae) *Epeorus heterocaudata* McDunnough *Ephemerella* (Ephemerellidae)

Caudatella

heteronea McDunnough *Leptophlebia* (Leptophlebiidae)

Paraleptophlebia

hetrotarsalis McDunnough *Ecdyonurus* (Heptageniidae) *Stenacron interpunctata*

hiemalis Leonard *Baetis* (Baetidae) *Baetis brunneicolor*

hilaris Say *Ephemera* (Caenidae) *Caenis*

hirsuta Berner *Ephemerella* (Ephemerellidae) *Attenella attenuata*

hispida Allen and Edmunds *Ephemerella* (Ephemerellidae)

Ephemerella

hobbsi Berner *Centroptilum* (Baetidae) *Procloeon*

hoffmani Kondratieff and Voshell *Isonychia* (Isonychiidae)

Isonychia

horrida McDunnough *Heptagenia* (Heptageniidae) *Nixe*

hubbelli Berner *Choroterpes* (Leptophlebiidae) *Choroterpes basalis*

hudsonicus Ide *Baetis* (Baetidae) *Baetis*

humeralis Morgan *Epeorus* (Heptageniidae) *Epeorus vitrea*

hyalina McDunnough *Cinygmula* (Heptageniidae) *Cinygmula par*

hyalinus Esben-Petersen *Ecdyonurus* (Heptageniidae) *Cinygmula*

lyriformis

hystrix Traver *Ephemerella* (Ephemerellidae) *Caudatella*

i

ida Daggy *Pseudocloeon* (Baetidae) *Baetis elliotti*

idahoensis Allen *Caurinella* (Ephemerellidae) *Caurinella*

idei Lestage *Eurycaenis* (Caenidae) *Brachycercus lacustris*

ignava Hagen *Baetis* (Leptophlebiidae) *Leptophlebia cupida*

imanica Bajkova *Rhithrogena* (Heptageniidae) *Nixe simplicoides*

imbellis Day *Ameletus* (Ameletidae) *Ameletus*

impersonata McDunnough *Heptagenia* (Heptageniidae) *Rhithrogena*

implicatum McDunnough *Cloeon* (Baetidae) *Procloeon*

inatum McDunnough *Cloeon* (Baetidae) *Procloeon*

incertans McDunnough *Baetis* (Baetidae) *Baetis tricaudatus*

incertus Traver *Campsurus* (Polymitarcyidae) *Tortopus puella*

inconspicua McDunnough *Heptagenia* (Heptageniidae) *Nixe*

inconstans Traver *Ephemerella* (Ephemerellidae) *Ephemerella*

indepressus Day *Apobaetis* (Baetidae) *Apobaetis*

inequalis Needham *Potamanthus* (Potamanthidae) *Anthopotamus*

myops

inermis Cohen and Allen *Baetodes* (Baetidae) *Baetodes*

inermis Eaton *Ephemerella* (Ephemerellidae) *Ephemerella*

inflata McDunnough *Ephemerella* (Ephemerellidae) *Drunella lata*

inflatus McDunnough *Siphonurus* (Siphonuridae) *Siphonurus*

occidentalis

infrequens McDunnough *Centroptilum* (Baetidae) *Procloeon*

pennulatum

infrequens McDunnough *Ephemerella* (Ephemerellidae)

Ephemerella

ingens McDunnough *Cloeon* (Baetidae) *Procloeon*

ingens McDunnough *Ephemerella* (Ephemerellidae) *Drunella*

grandis

inopinatus Eaton *Ameletus* (Ameletidae) *Ameletus*

inornata Eaton *Choroterpes* (Leptophlebiidae) *Choroterpes*

insignificans McDunnough *Baetis* (Baetidae) *Acentrella*

insignificans McDunnough *Cloeon* (Baetidae) *Procloeon*

integer McDunnough *Heptagenia* (Heptageniidae) *Stenonema mexicana*

integrum Eaton *Cinygma* (Heptageniidae) *Cinygma intercalaris* McDunnough *Baetis* (Baetidae) *Baetis interlineata* Walsh *Baetis* (Metretopodidae) *Siphloplecton intermediale* McDunnough *Centroptilum* (Baetidae) *Procloeon intermedius* Dodds *Baetis* (Baetidae) *Baetis tricaudatus* *intermedius* Eaton *Chironetes* (Isonychiidae) *Isonychia intermedius* Traver *Blasturus* (Leptophlebiidae) *Leptophlebia interpunctata* Say *Baetis* (Heptageniidae) *Stenacron invalida* McDunnough *Leptophlebia* (Leptophlebiidae) *Paraleptophlebia gregalis* *invaria* Walker *Baetis* (Ephemerellidae) *Ephemerella irubrum* Lowen and Flannagan *Procloeon* (Baetidae) *Procloeon ithaca* Clemens and Leonard *Heptagenia* (Heptageniidae) *Stenonema*

j

jacobi McDunnough *Ephemerella* (Ephemerellidae) *Caudatella jeanae* Berner *Paraleptophlebia* (Leptophlebiidae) *Paraleptophlebia jejuna* Eaton *Rhithrogena* (Heptageniidae) *Rhithrogena jesmondensis* McDunnough *Baetis* (Baetidae) *Baetis tricaudatus* *jewetti* Allen *Heptagenia* (Heptageniidae) *Leucrocota jocosa* Banks *Habrophlebia* (Leptophlebiidae) *Habrophlebia vibrans* *jocosa* McDunnough *Caenis* (Caenidae) *Caenis latipennis* *johnsoni* McDunnough *Leptophlebia* (Leptophlebiidae) *Leptophlebia julia* Traver *Heptagenia* (Heptageniidae) *Heptagenia junio* McDunnough *Heptagenia* (Heptageniidae) *Leucrocota*

k

kanuga Traver *Hexagenia* (Ephemeridae) *Hexagenia limbata* *kennedyi* McDunnough *Heptagenia* (Heptageniidae) *Nixe kirchneri* Kondratieff and Durfee *Paraleptophlebia* (Leptophlebiidae) *Paraleptophlebia kootenai* McDunnough *Cinygmula* (Heptageniidae) *Cinygmula kossi* Allen *Choroterpes* (Leptophlebiidae) *Neochoroterpes*

l

lacustris Allen and Edmunds *Ephemerella* (Ephemerellidae) *Ephemerella lacustris* McDunnough *Baetisca* (Baetiscidae) *Baetisca lacustris* Needham *Caenis* (Caenidae) *Brachycercus lagunitas* Traver *Iron* (Heptageniidae) *Epeorus lapidula* McDunnough *Ephemerella* (Ephemerellidae) *Drunella flavilinea* *lapponica* Bengtsson *Acentrella* (Baetidae) *Acentrella lasallei* Banks *Baetis* (Baetidae) *Baetis intercalaris* *lata* Morgan *Ephemerella* (Ephemerellidae) *Drunella latipennis* Banks *Caenis* (Caenidae) *Caenis laurentina* McDunnough *Baetisca* (Baetiscidae) *Baetisca leechi* Burks *Baetis* (Baetidae) *Fallceon quillieri* *lenati* McCafferty *Stenonema* (Heptageniidae) *Stenonema lepidus* Traver *Ironodes* (Heptageniidae) *Ironodes lepton* Burks *Stenonema* (Heptageniidae) *Stenonema terminata* *leukon* Williamson *Ephoron* (Polymitarcyidae) *Ephoron levis* Day *Ephemerella* (Ephemerellidae) *Serratella levitans* McDunnough *Baetis* (Baetidae) *Baetis flavistriga* *lewisi* Allen *Traverella* (Leptophlebiidae) *Traverella libos* Allen and Murvosh *Baetis* (Baetidae) *Baetis magnus* *limbata* Serville *Ephemera* (Ephemeridae) *Hexagenia*

lineata Clemens *Ephemerella* (Ephemerellidae) *Eurylophella lutulenta*

lineatus Traver *Ameletus* (Ameletidae) *Ameletus lita* Burks *Ephemerella* (Ephemerellidae) *Timpanoga lodi* Mayo *Ephemerella* (Ephemerellidae) *Eurylophella longicornis* Traver *Ephemerella* (Ephemerellidae) *Drunella longimanus* Eaton *Iron* (Heptageniidae) *Epeorus longipalpus* Morioka and McCafferty *Baetis* (Baetidae) *Labiobastis lucidipennis* Clemens *Ecdyurus* (Heptageniidae) *Nixe ludens* Needham *Ameletus* (Ameletidae) *Ameletus luridipennis* Burmeister *Baetis* (Siphonuridae) *Siphonurus lutea* Clemens *Heptagenia* (Heptageniidae) *Stenonema lutulenta* Clemens *Ephemerella* (Ephemerellidae) *Eurylophella lyriformis* McDunnough *Ecdyonurus* (Heptageniidae) *Cinygma*

m

maccafferti Provonsha *Caenis* (Caenidae) *Caenis macdunnoughi* Funk *Eurylophella* (Ephemerellidae) *Eurylophella macdunnoughi* Ide *Baetis* (Baetidae) *Acerpenna macrolamellus* Waltz and McCafferty *Cloeodes* (Baetidae) *Cloeodes maculata* Traver *Ephemerella* (Ephemerellidae) *Ephemerella maculatus* Berner *Brachycercus* (Caenidae) *Brachycercus maculipennis* Walsh *Heptagenia* (Heptageniidae) *Leucrocota magnus* McCafferty and Waltz *Baetis* (Baetidae) *Baetis majasculus* Zloty *Ameletus* (Ameletidae) *Ameletus majus* Traver *Stenonema* (Heptageniidae) *Stenacron interpunctata manca* Eaton *Isonychia* (Isonychiidae) *Isonychia sicca* *manifesta* Eaton *Rhithrogena* (Heptageniidae) *Heptagenia manitobensis* Ide *Campsurus* (Polymitarcyidae) *Tortopus primus* *margarita* Edmunds and Allen *Epeorus* (Heptageniidae) *Epeorus margarita* Needham *Ephemerella* (Ephemerellidae) *Attenella marginalis* Banks *Heptagenia* (Heptageniidae) *Heptagenia marginatus* Traver *Siphonurus* (Siphonuridae) *Siphonurus maria* Mayo *Siphonurus* (Siphonuridae) *Siphonurus spectabilis marilandica* Traver *Hexagenia* (Ephemeridae) *Hexagenia limbata marshalli* Traver *Siphonurus* (Siphonuridae) *Siphonurus matilda* Traver *Isonychia* (Isonychiidae) *Isonychia bicolor mediopunctatus* McDunnough *Ecdyonurus* (Heptageniidae) *Stenonema*

medius Banks *Potamanthus* (Potamanthidae) *Anthopotamus myops memorialis* Eaton *Leptophlebia* (Leptophlebiidae) *Paraleptophlebia mendax* Walsh *Cloeon* (Baetidae) *Procloeon meridionalis* Traver *Pseudiron* (Pseudironidae) *Pseudiron centralis meririvulani* Carle and Lewis *Stenonema* (Heptageniidae) *Stenonema*

metriotes Burks *Stenonema* (Heptageniidae) *Stenonema mexicana mexicana* Ulmer *Heptagenia* (Heptageniidae) *Stenonema mexicanus* Allen *Choroterpes* (Leptophlebiidae) *Neochoroterpes oklahoma*

mexicanus Traver and Edmunds *Dactylobaetis* (Baetidae) *Camelobaetidi*

michaeli Allen *Leptohyphes* (Leptohyphidae) *Leptohyphes micheneri* Traver *Ephemerella* (Ephemerellidae) *Serratella midas* McDunnough *Siphonurides* (Siphonuridae) *Parametulus mimus* Eaton *Cinygma* (Heptageniidae) *Cinygmula minerva* McDunnough *Heptagenia* (Heptageniidae) *Leucrocota mingo* Traver *Hexagenia* (Ephemeridae) *Hexagenia limbata minimella* McDunnough *Ephemerella* (Ephemerellidae)

Eurylophella minimus Dodds *Baetis* (Baetidae) *Baetis bicaudatus minnetonka* Daggy *Stenonema* (Heptageniidae) *Stenacron minnoi* Provonsha and McCafferty *Siphonurus* (Siphonuridae) *Siphonurus*

minor McDunnough *Cloeon* (Baetidae) *Procloeon*

minutum Daggy Pseudocloeon (Baetidae) Paracloeodes
 minutus Traver Tricorythodes (Leptohyphidae) Tricorythodes
 mirus Allen Leptohyphes (Leptohyphidae) Leptohyphes
 modestus Banks Epeorus (Heptageniidae) Stenonema
 moerens McDunnough Leptophlebia (Leptophlebiidae)

Paraleptophlebia

moffatae Allen Ephemerella (Ephemerellidae) Ephemerella
 moffati Dodds Baetis (Baetidae) Baetis
 mollita McDunnough Ephemerella (Ephemerellidae) Serratella
 mollis Eaton Leptophlebia (Leptophlebiidae) Paraleptophlebia
 mollis Hagen Cloe (Leptophlebiidae) Paraleptophlebia mollis
 mollitia Seemann Ephemerella (Ephemerellidae) Ephemerella
 montana Mayo Ameletus (Ameletidae) Ameletus similior

montanus Eaton Callibaetis (Baetidae) Callibaetis
 morrisoni Banks Epeorus (Heptageniidae) Rhithrogena
 mosegus Alba-Tercedor and Flannagan Tricorythodes
 (Leptohyphidae) Tricorythodes
 mucronata Bengtsson Chitonophora (Ephemerellidae) Ephemerella
 munda Eaton Hexagenia (Ephemeridae) Hexagenia limbata
 musseri Traver and Edmunds Dactylobaetis (Baetidae)
 Camelobaetidiis
 myops Walsh Ephemerella (Potamanthidae) Anthopotamus
 myrsum Burks Pseudocloeon (Baetidae) Baetis punctiventris

n

namatus Burks Iron (Heptageniidae) Epeorus
 nanita Traver Choroterpes (Leptophlebiidae) Neochoroterpes
 nanus McDunnough Baetis (Baetidae) Baetis flavistriga
 nasutus Soldán Brachycercus (Caenidae) Brachycercus
 natata Walker Palingenia (Ephemeridae) Ephemerella similans
 navis Allen and Chao Dactylobaetis (Baetidae) Camelobaetidiis
 warreni
 neavei McDunnough Ametropus (Ametropodidae) Ametropus
 nebulosa Walker Palingenia (Leptophlebiidae) Leptophlebia
 needhami McDunnough Ephemerella (Ephemerellidae) Ephemerella
 neglectus Traver Potamanthus (Potamanthidae) Anthopotamus
 nepotellus McDunnough Ecdyonurus (Heptageniidae) Stenonema
 mediopunctatus
 nigrinus Banks Callibaetis (Baetidae) Callibaetis ferruginea
 nipawinia Lehmkuhl Macdunna (Heptageniidae) Macdunna
 nitidus Eaton Iron (Heptageniidae) Ironodes
 nitidus Traver Eurycania (Caenidae) Brachycercus
 norda McDunnough Ephemerella (Ephemerellidae) Ephemerella
 aurivillii
 norvegica Esben-Petersen Sparrea (Siphonuridae) Parameletus
 chelifer
 norvegicus Eaton Metretopus (Metretopodidae) Metretopus borealis
 notata Traver Isonychia (Isonychiidae) Isonychia
 notos Allen and Murvosh Baetis (Baetidae) Baetis
 novangliae McDunnough Siphonurus (Siphonuridae) Siphonurus
 typicus
 noveboracana Lichtenstein Ephemerella (Siphonuridae) Siphonurus

O

oaxacaensis Brusca and Allen Choroterpes (Leptophlebiidae)
 Choroterpes inornata
 obesa Say Baetis (Baetiscidae) Baetisca
 obscura Traver Isonychia (Isonychiidae) Isonychia
 occidentalis Eaton Siphonurus (Siphonuridae) Siphonurus
 occulta Walker Palingenia (Ephemeridae) Hexagenia limbata
 ochris Burks Baetis (Baetidae) Baetis flavistriga
 odonatus Walsh Potamanthus (Leptophlebiidae) Leptophlebia
 nebulosa

ohioense Traver Stenonema (Heptageniidae) Stenacron
 interpunctata
 oklahoma Traver Choroterpes (Leptophlebiidae) Neochoroterpes
 ontario McDunnough Leptophlebia (Leptophlebiidae)
 Paraleptophlebia
 ora Burks Ephemerella (Ephemerellidae) Ephemerella
 oregonensis McDunnough Ameletus (Ameletidae) Ameletus
 orestes Allen and Edmunds Ephemerella (Ephemerellidae)
 Caudatella jacobii
 orlando Traver Hexagenia (Ephemeridae) Hexagenia
 oreophilum Edmunds Centroptilum (Baetidae) Procloeon
 otiosa McDunnough Heptagenia (Heptageniidae) Nixe
 ozburni McDunnough Centroptilum (Baetidae) Procloeon

P

pacificus McDunnough Blasturus (Leptophlebiidae) Leptophlebia
 pacificus Seemann Callibaetis (Baetidae) Callibaetis pictus
 packeri Allen Leptohyphes (Leptohyphidae) Leptohyphes
 packi Needham Leptophlebia (Leptophlebiidae) Paraleptophlebia
 pacoleta Traver Isonychia (Isonychiidae) Isonychia bicolor
 palisadi Mayo Baetis (Baetidae) Baetis
 pallens Traver Hexagenia (Ephemeridae) Hexagenia limbata
 pallidulus McDunnough Baetis (Baetidae) Baetis flavistriga
 pallidum Traver Stenonema (Heptageniidae) Stenacron
 pallidus Banks Callibaetis (Baetidae) Callibaetis
 pallipes Hagen Leptophlebia (Leptophlebiidae) Paraleptophlebia
 memorialis
 pallipes Walker Palingenia (Leptophlebiidae) Leptophlebia cupida
 par Eaton Cinygma (Heptageniidae) Cinygmula
 paraguttatus Allen Leptohyphes (Leptohyphidae) Leptohyphes
 parallelus Banks Baetis (Baetidae) Baetis
 parvulum McDunnough Pseudocloeon (Baetidae) Baetis armillatus
 parvus Dodds Baetis (Baetidae) Diphetor hageni
 patoka Burks Heptagenia (Heptageniidae) Heptagenia
 pecatonica Burks Metreturus (Acanthametropodidae)
 Acanthametropus
 pellucida Daggy Rhithrogena (Heptageniidae) Rhithrogena
 pelosa Mayo Ephemerella (Ephemerellidae) Drunella
 pennulatum Eaton Centroptilum (Baetidae) Procloeon
 perfida McDunnough Heptagenia (Heptageniidae) Nixe
 peridius Burks Tricorythodes (Leptohyphidae) Tricorythodes allecta
 permagnus Traver Ironopsis (Heptageniidae) Epeorus
 persecuta McDunnough Baetis (Baetidae) Baetis
 persimplex McDunnough Heptagenia (Heptageniidae) Macdunna
 peterseni Lestage Ecdyonurus (Heptageniidae) Cinygma lyriformis
 petersi Allen Heptagenia (Heptageniidae) Leucrocota
 petersi Müller-Liebenau Rheobaetis (Baetidae) Heterocloeon
 petulans Seemann Iron (Heptageniidae) Rhithrogena morrisoni
 phalarobanchus Kilgore and Allen Leptohyphes (Leptohyphidae)
 Leptohyphes packeri
 phoebus McDunnough Baetis (Baetidae) Baetis flavistriga
 phyllis Burks Baetis (Baetidae) Baetis brunneicolor
 phyllis McDunnough Siphonurus (Siphonuridae) Siphonurus
 pictipes Traver Isonychia (Isonychiidae) Isonychia arida
 pictus Eaton Baetis (Baetidae) Callibaetis
 pini Soldán Brachycercus (Caenidae) Brachycercus maculatus
 piscatoris Traver Baetis (Baetidae) Baetis
 placeri Mayo Paraleptophlebia (Leptophlebiidae) Paraleptophlebia
 placita Banks Heptagenia (Heptageniidae) Stenonema terminata
 plana Allen and Chao Rhithrogena (Heptageniidae) Rhithrogena
 pleuralis Banks Heptagenia (Heptageniidae) Epeorus
 pluto McDunnough Baetis (Baetidae) Baetis
 poconoensis Funk Eurylophella (Ephemerellidae) Eurylophella
 posticata Say Cloeon (Baetidae) Baetis

powelli Edmunds Lachlania (*Oligoneuriidae*) Lachlania
saskatchewanensis
praepedita Eaton Leptophlebia (*Leptophlebiidae*) Paraleptophlebia
presidians Traver Thraululus (*Leptophlebiidae*) Traverella
pretiosus Banks Callibaetis (*Baetidae*) Callibaetis
primus McDunnough Campsurus (*Polymitarcyidae*) Tortopus
pritchardi Zloty Ameletus (*Ameletidae*) Ameletus
propinqua Walsh Cloe (*Baetidae*) Labiobaetis
proprius Traver Iron (*Heptageniidae*) Epeorus longimanus
proserpina Traver Ephemerella (*Ephemerellidae*) Drunella grandis
provonshai McCafferty Ephemerella (*Ephemerellidae*) Timpanoga
proximum Traver Stenonema (*Heptageniidae*) Stenonema
interpunctata
prudens McDunnough Eurycanis (*Caenidae*) Brachycercus
prudentialis McDunnough Ephemerella (*Ephemerellidae*)
Eurylophella
pubescens Whiting and Lehmkuhl Acanthomola (*Heptageniidae*)
Acanthomola
pudica Hagen Ephemerella (*Heptageniidae*) Stenonema
puella Pictet Palingenia (*Polymitarcyidae*) Tortopus
pulchella Walsh Palingenia (*Heptageniidae*) Stenonema
pullus Clemens Ecdyurus (*Heptageniidae*) Heptagenia
punctata McDunnough Caenis (*Caenidae*) Caenis
punctatus McDunnough Iron (*Heptageniidae*) Epeorus
punctilulus McCafferty and Provonsha Callibaetis (*Baetidae*)
Callibaetis
punctiventris McDunnough Pseudocloeon (*Baetidae*) Baetis
purpureus Traver Oreianthus (*Neoephemeridae*) Neoephemerella
pusilla Traver Habrophlebia (*Leptophlebiidae*) Habrophlebia
vibrans
pygmaea Hagen Cloe (*Baetidae*) Acerpenna

Q

quadripunctata Walsh Pentagenia (*Ephemeridae*) Pentagenia
vittigera
quaesitum McDunnough Centroptilum (*Baetidae*) Procloeon
quebecensis Hubbard Baetis (*Baetidae*) Baetis flavistriga
quebecensis Provancher Cloe (*Ephemerellidae*) Ephemerella
quebecensis Provancher Siphonurus (*Siphonuridae*) Siphonurus
quercus Kilgore and Allen Leptohyphes (*Leptohyphidae*)
Leptohyphes
querula McDunnough Heptagenia (*Heptageniidae*) Heptagenia
elegantula
querulus McDunnough Ameletus (*Ameletidae*) Ameletus sheperdi
quilleri Dodds Baetis (*Baetidae*) Fallceon
quinquespinum Lewis Stenonema (*Heptageniidae*) Stenonema
exiguum
quisquilia Day Paraleptophlebia (*Leptophlebiidae*) Paraleptophlebia

R

rama Allen Ephemerella (*Ephemerellidae*) Ephemerella
ramaleyi Dodds Ecdyonurus (*Heptageniidae*) Cinygmula
rapidus McDunnough Siphonurus (*Siphonuridae*) Siphonurus

recurvata Morgan Hexagenia (*Ephemeridae*) Litobrantha
reticulata McDunnough Cinygmula (*Heptageniidae*) Cinygmula
reversalis McDunnough Heptagenia (*Heptageniidae*)
Raptoheptagenia cruentata
ridens McDunnough Caenis (*Caenidae*) Amercaenis
rigida McDunnough Hexagenia (*Ephemeridae*) Hexagenia
rivulare Traver Centroptilum (*Baetidae*) Procloeon
rivulicolus McDunnough Ecdyonurus (*Heptageniidae*) Stenonema
vicaria
robacki Allen Leptohyphes (*Leptohyphidae*) Leptohyphes

robusta Dodds Rhithrogena (*Heptageniidae*) Rhithrogena
robusta McDunnough Pentagenia (*Ephemeridae*) Pentagenia
rodocki Traver Heptagenia (*Heptageniidae*) Nixe
rogersi Berner Baetisca (*Baetiscidae*) Baetisca
rosacea Traver Hexagenia (*Ephemeridae*) Hexagenia limbata
rosea Traver Heptagenia (*Heptageniidae*) Nixe
rossi Allen and Edmunds Ephemerella (*Ephemerellidae*)
Ephemerella
rotunda Morgan Ephemerella (*Ephemerellidae*) Ephemerella
ruber McDunnough Ecdyonurus (*Heptageniidae*) Stenonema
modestus
rubescens Provancher Cloe (*Baetiscidae*) Baetisca
rubicunda Traver Rhithrogena (*Heptageniidae*) Rhithrogena
rubidus Traver Iron (*Heptageniidae*) Epeorus
rubrolaterale McDunnough Pseudocloeon (*Baetidae*) Baetis
rubromaculata Clemens Heptagenia (*Heptageniidae*) Stenonema
modestus
rubropictum McDunnough Cloeon (*Baetidae*) Procloeon
rubroventris Traver Heptagenia (*Heptageniidae*) Nixe rosea
rufa McDunnough Isonychia (*Isonychiidae*) Isonychia
rufivenosa Eaton Leptophlebia (*Leptophlebiidae*) Paraleptophlebia
rufostrigatum McDunnough Centroptilum (*Baetidae*) Procloeon
rufous Argo Potamanthus (*Potamanthidae*) Anthopotamus myops
rusticalis McDunnough Heptagenia (*Heptageniidae*) Nixe
rusticans McDunnough Baetis (*Baetidae*) Baetis
rusticus McDunnough Anepeorus (*Heptageniidae*) Anepeorus

S

sabina Traver Leptohyphes (*Leptohyphidae*) Leptohyphes
sadleri Traver Isonychia (*Isonychiidae*) Isonychia bicolor
salinus Allen and Chao Dactylobaetis (*Baetidae*) Camelobaetis
musseri
salinus Kilgore and Allen Thraulodes (*Leptophlebiidae*) Thraulodes
gonzalesi
sanctagabriel Traver Iron (*Heptageniidae*) Epeorus hespera
sanguinea Ide Rhithrogena (*Heptageniidae*) Rhithrogena
impersonata
saskatchewanensis Ide Lachlania (*Oligoneuriidae*) Lachlania
sayi Burks Isonychia (*Isonychiidae*) Isonychia
scitulum Traver Stenonema (*Heptageniidae*) Stenonema femorata
sculleni Traver Paraleptophlebia (*Leptophlebiidae*) Paraleptophlebia
securifer McDunnough Siphonurus (*Siphonuridae*) Siphonurus
selanderorum Edmunds Centroptilum (*Baetidae*) Centroptilum
semicostatus Banks Callibaetis (*Baetidae*) Callibaetis pallidus
semiflava McDunnough Ephemerella (*Ephemerellidae*) Ephemerella
excrucians
semirufum McDunnough Centroptilum (*Baetidae*) Centroptilum
separata Ulmer Leptophlebia (*Leptophlebiidae*) Paraleptophlebia
debilis
septentrionalis McDunnough Ephemerella (*Ephemerellidae*)
Ephemerella
sequoia Allen and Collins Ephemerella (*Ephemerellidae*) Serratella
serpentis Soldán Cercobrachys (*Caenidae*) Cercobrachys
serrata Morgan Ephemerella (*Ephemerellidae*) Serratella
serrata Traver Isonychia (*Isonychiidae*) Isonychia
serratoidea McDunnough Ephemerella (*Ephemerellidae*) Serratella
sheperdi Traver Ameletus (*Ameletidae*) Ameletus
sicca Walsh Baetis (*Isonychiidae*) Isonychia
sierra Mayo Ephemerella (*Ephemerellidae*) Drunella spinifera
sigillatus Allen and Chao Baetodes (*Baetidae*) Baetodes arizonensis
signatum Traver Siphonuridae (*Metretopodidae*) Siphonuridae
basalis
signatus Banks Callibaetis (*Baetidae*) Callibaetis pictus
simila Allen and Edmunds Ephemerella (*Ephemerellidae*)
Ephemerella

simile Berner Siphloplecton (Metreopodidae) Siphloplecton
 simile McDunnough Centropitulum (Baetidae) Procloeon
 similior McDunnough Ameletus (Ameletidae) Ameletus
 similis Traver Isonychia (Isonychiidae) Isonychia
 simplex McDunnough Cloeon (Baetidae) Procloeon
 simplex McDunnough Ephemerella (Ephemerellidae) Timpanoga
 simplex Walsh Heptagenia (Heptageniidae) Anepeorus
 simplicioides McDunnough Heptagenia (Heptageniidae) Nixe
simulans McDunnough Caenis (Caenidae) *Caenis amica*
simulans Walker Ephemerella (Ephemerellidae) Ephemerella
 sinclairi Lewis Stenonema (Heptageniidae) Stenonema
sinuosus Navás Baetis (Baetidae) Baetis flavistriga
 skokianus Needham Callibaetis (Baetidae) Callibaetis
 smithae Traver Stenonema (Heptageniidae) Stenonema
 solitaria McDunnough Heptagenia (Heptageniidae) Heptagenia
sonora Allen and Murvosh Baetis (Baetidae) Fallceon quilleri
 soquele Day Ephemerella (Ephemerellidae) Attenella
 sordida McDunnough Ephemerella (Ephemerellidae) Serratella
 sparsatus McDunnough Ameletus (Ameletidae) Ameletus
 speciosum Traver Siphloplecton (Metreopodidae) Siphloplecton
 speciosus Traver Thraulodes (Leptophlebiidae) Thraulodes
 spectabilis Traver Siphonurus (Siphonuridae) Siphonurus
 spiculosa Berner and Allen Ephemerella (Ephemerellidae) Serratella
spiethi Berner Baetis (Baetidae) Acerpenna pygmaea
 spinifera Needham Ephemerella (Ephemerellidae) Drunella
spinosa Mayo Ephemerella (Ephemerellidae) Caudatella hystrix
 spinosa Traver Heptagenia (Heptageniidae) Nixe
spinosus McDunnough Baetis (Baetidae) Labiobaetis propinqua
 sticta Burks Paraleptophlebia (Leptophlebiidae) Paraleptophlebia
 strigula McDunnough Leptophlebia (Leptophlebiidae)
 Paraleptophlebia
 stygiatus McDunnough Tricorythodes (Leptohyphidae)
 Tricorythodes
 subaequalis Banks Heptagenia (Heptageniidae) Cinygmula
 subnotatus Eaton Ameletus (Ameletidae) Ameletus
 subpallidus Traver Iron (Heptageniidae) Epeorus
 subvaria McDunnough Ephemerella (Ephemerellidae) Ephemerella
 succinus Allen Leptohyphes (Leptohyphidae) Leptohyphes
 suffusus McDunnough Ameletus (Ameletidae) Ameletus
 suffusus McDunnough Iron (Heptageniidae) Epeorus
 sulfureus Day Baetis (Baetidae) Baetis
 swannanoa Traver Leptophlebia (Leptophlebiidae) Paraleptophlebia

t

tarda McDunnough Cinygmula (Heptageniidae) Cinygmula
 tardata McDunnough Caenis (Caenidae) Caenis
 tarteri Burrows Ameletus (Ameletidae) Ameletus
 temporalis McDunnough Ephemerella (Ephemerellidae)
 Eurylophella
 temporalis McDunnough Leptophlebia (Leptophlebiidae)
 Paraleptophlebia
tenuis Traver Iron (Heptageniidae) Epeorus fragilis
 teresa Traver Ephemerella (Ephemerellidae) Serratella
 terminata Walsh Palingenia (Heptageniidae) Stenonema
 terratoma Seemann Choroterpes (Leptophlebiidae) Choroterpes
 tertius McDunnough Ameletus (Ameletidae) Ameletus
tessellata Hagen Baetis (Baetidae) Callibaetis ferruginea
tessellata Walker Baetis (Heptageniidae) Stenonema vicaria
 texanum McCafferty and Provonsa Procloeon (Baetidae) Procloeon
 texanus Davis Farrodes (Leptophlebiidae) Farrodes
 texanus Traver Tricorythodes (Leptohyphidae) Tricorythodes
 thermophilos McDunnough Baetis (Baetidae) Baetis
 thetis Traver Heptagenia (Heptageniidae) Leucrocuta
thomsenae Traver Baetisca (Baetiscidae) Baetisca carolina
 tibialis McDunnough Ephemerella (Ephemerellidae) Serratella

tioga Mayo Cinygmula (Heptageniidae) Cinygmula
 tolac Zloty Ameletus (Ameletidae) Ameletus
tollandi Dodds Iron (Heptageniidae) Cinygmula ramaleyi
 townesi Traver Heptagenia (Heptageniidae) Heptagenia
traverae Müller-Liebenau Rheobaetis (Baetidae) Heterocloeon
curiosum
traverae Spieth Ephemerella (Ephemerellidae) Ephemerella traveri
traverae Upholt Callibaetis (Baetidae) Callibaetis fluctuans
 traveri Spieth Ephemerella (Ephemerellidae) Ephemerella
triangularis Clemens Siphonurus (Siphonuridae) Siphonurus
quebecensis
 triangulifer McDunnough Cloeon (Baetidae) Centropitulum
 tricaudatus Dodds Baetis (Baetidae) Baetis
trilineata Berner Ephemerella (Ephemerellidae) Eurylophella doris
 triplex Traver Ephemerella (Ephemerellidae) Ephemerella

tripunctata Banks Heptagenia (Heptageniidae) Stenonema femorata
trivialis Allen and Chao Dactylobaetis (Baetidae) Camelobaetidius
warreni
 tuberculata Morgan Ephemerella (Ephemerellidae) Drunella
tuberculatus McDunnough Ameletus (Ameletidae) Ameletus celer
 tuberculatus Soldán Brachycercus (Caenidae) Brachycercus
 turbidum McDunnough Pseudocloeon (Baetidae) Acentrella
 tuscalanensis Berner Isonychia (Isonychiidae) Isonychia
 typicus Eaton Siphonurus (Siphonuridae) Siphonurus

u

uhari Traver Rhithrogena (Heptageniidae) Rhithrogena
 umbratica McDunnough Heptagenia (Heptageniidae) Leucrocuta
 undulatus Banks Epeorus (Heptageniidae) Rhithrogena
unicolor Hagen Cloe (Baetidae) Diphetor hageni
 unicornis Needham Ephemerella (Ephemerellidae) Ephemerella
 uniformis McDunnough Cinygmula (Heptageniidae) Cinygmula
 usa Waltz and McCafferty Pseudocentropitiloides (Baetidae)
 Pseudocentropitiloides

v

vaciva Eaton Leptophlebia (Leptophlebiidae) Paraleptophlebia
vagans McDunnough Baetis (Baetidae) Baetis tricaudatus
 validus McDunnough Ameletus (Ameletidae) Ameletus
 vancouverensis McDunnough Ameletus (Ameletidae) Ameletus
 varia Eaton Ephemerella (Ephemerellidae) Ephemerella
variabilis Eaton Hexagenia (Ephemerellidae) Hexagenia limbata
varium Traver Stenonema (Heptageniidae) Stenonema modestus
 velma Needham Isonychia (Isonychiidae) Isonychia
 velmae Allen and Edmunds Ephemerella (Ephemerellidae) Serratella
 velox Dodds Ameletus (Ameletidae) Ameletus
 venosum Traver Centropitulum (Baetidae) Procloeon
venusta Eaton Hexagenia (Ephemerellidae) Hexagenia limbata
vernalis Banks Ephemerella (Ephemerellidae) Ephemerella rotunda
 vernalis McDunnough Ameletus (Ameletidae) Ameletus
 verruca Allen and Edmunds Ephemerella (Ephemerellidae)
 Ephemerella
 versimilis McDunnough Ephemerella (Ephemerellidae) Eurylophella
 verticis Say Baetis (Potamanthidae) Anthopotamus
 vesus Allen Leptohyphes (Leptohyphidae) Leptohyphes
 veteris McDunnough Pseudocloeon (Baetidae) Baetis
vibex Traver Blasturus (Leptophlebiidae) Leptophlebia pacificus
 vibrans Needham Habrophlebia (Leptophlebiidae) Habrophlebia
 vicaria Walker Baetis (Heptageniidae) Stenonema
vicina Walsh Cloe (Baetidae) Labiobaetis propinqua
 vicinum Hagen Cloeon (Baetidae) Procloeon
 victoriae McDunnough Centropitulum (Baetidae) Centropitulum
viridescens Walker Palingenia (Ephemerellidae) Hexagenia limbata

viridocularis Berner Centroptilum (Baetidae) Procloeon
 virile McDunnough Pseudocloeon (Baetidae) Baetis
 virilis McDunnough Rhithrogena (Heptageniidae) Rhithrogena
 vitrea Dodds Callibaetis (Baetidae) Callibaetis pictus
 vitrea Walker Palingenia (Heptageniidae) Epeorus
 vitta Allen and Chao Rhithrogena (Heptageniidae) Rhithrogena
 vittigera Walsh Pentagenia (Ephemeridae) Pentagenia
 volitans McDunnough Leptophlebia (Leptophlebiidae)
 Paraleptophlebia

W

wabasha Daggy Stenonema (Heptageniidae) Stenonema mexicana
 walkeri Eaton Ephemerella (Ephemerellidae) Drunella
 walkeri Ide Potamanthus (Potamanthidae) Anthopotamus verticis
 wallacei Edmunds and Jensen Spinadis (Heptageniidae) Anepeorus
 simplex
 walleyi Harper Ameletus (Ameletidae) Ameletus
 walshi McDunnough Centroptilum (Baetidae) Procloeon
 walshi McDunnough Heptagenia (Heptageniidae) Leucrocuta
 waltzi McCafferty Camelobaetidius (Baetidae) Camelobaetidius
 warreni Traver and Edmunds Dactylobaetis (Baetidae)
 Camelobaetidius
 wayah Traver Ephemerella (Ephemerellidae) Drunella
 weewa Traver Hexagenia (Ephemeridae) Hexagenia limbata
 werestschagini Tshernova Heptagenia (Heptageniidae) Nixe
 simplicoides
 wilsoni Mayo Ephemerella (Ephemerellidae) Drunella coloradensis

Y

yosemite Traver Ephemerella (Ephemerellidae) Drunella grandis
 youngi Berner Neophemera (Neophemeridae) Neophemera
 youngi Roemhild Caenis (Caenidae) Caenis
 youngi Traver Iron (Heptageniidae) Epeorus albertae

Z

zayante Day Paraleptophlebia (Leptophlebiidae) Paraleptophlebia
 zenobia Traver and Edmunds Dactylobaetis (Baetidae)
 Camelobaetidius warreni