

CANADA MAYFLIES: A FAUNISTIC COMPENDIUM

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Abstract

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An account of 321 species of mayflies (Ephemeroptera) of Canada is provided and is based on the examination of previously unstudied material and on a comprehensive bibliographic review of initial records of all species (including synonyms and misidentifications) for each of the Canadian provinces and territories. Ninety-seven new provincial and territorial records of species are presented. *Apobaetis indreprensus* Day from Saskatchewan, *Plautidius cestus* (Provonsha and McCafferty) from Ontario, *Procloeon rivulare* (Traver) from Nova Scotia, *Procloeon viridoculare* (Berner) from Ontario, *Anepeorus simplex* (Walsh) from Ontario, and *Stenacron gilderleevei* (Traver) from Manitoba represent new, substantiated records for Canada. Checklists for each of the provinces and territories are given, and species included are annotated to indicate new records, endemism, type locality, and distribution outside of the province or territory and outside Canada. There are 102 species recorded for Alberta, 92 for British Columbia (two new records), 93 for Manitoba (two new records), 89 for New Brunswick (16 new records), 46 for Newfoundland Province (17 new records), 87 for Nova Scotia (14 new records), 52 for the Northwest Territories (one new record), 165 for Ontario (11 new records), 14 for Prince Edward Island (13 new records), 163 for Quebec (one new record), 82 for Saskatchewan (19 new records), and 28 for the Yukon Territory (one new record). Over 70% of the Canadian fauna was originally described from there. Only about 10% of the Canadian fauna is apparently endemic.

Résumé

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Un inventaire de 321 espèces d'Ephémères (Ephemeroptera) du Canada est présenté. Il est basé l'examen d'un matériel non étudié auparavant et sur une revue bibliographique d'ensemble des premières citations de toutes les espèces (y compris les synonymes et les erreurs d'identification) pour chacune des provinces et chacun des territoires canadiens. En outre, 97 citations nouvelles d'espèces, provinciales et/ou territoriales, sont présentées. Des citations nouvelles pour le Canada sont aussi établies : *Apobaetis indreprensus* Day au Saskatchewan, *Plautidius cestus* (Provonsha et McCafferty) en Ontario, *Procloeon rivulare* (Traver) en Nouvelle-Ecosse, *Procloeon viridoculare* (Berner) en Ontario, *Anepeorus simplex* (Walsh) en Ontario, et *Stenacron gilderleevei* (Traver) au Manitoba. Des listes sont dressées pour chaque province et territoire, dont les espèces sont annotées pour préciser : les citations nouvelles, l'endémisme, la localité-typique et la distribution à l'extérieur de la province ou de territoire ainsi qu'hors du Canada. En tout, 102 espèces sont répertoriées en Alberta, 92 en Colombie Britannique (dont deux citations nouvelles), 93 au Manitoba (deux citations nouvelles), 89 au Nouveau Brunswick (16 citations nouvelles), 46 sur

la province de Terre-Neuve (17 citations nouvelles), 87 en Nouvelle Ecosse (14 citations nouvelles), 52 sur les Territoires de Nord-Ouest (une citation nouvelle), 165 en Ontario (11 citations nouvelles), 14 sur l'île du Prince Edward (13 citations nouvelles), 163 au Québec (une citation nouvelle), 82 au Saskatchewan (19 citations nouvelles), et 28 sur le Territoire du Yukon (une citation nouvelle). Plus de 70% de la faune du Canada a été originellement décrite de ces régions. Seulement 10% environ de la faune canadienne est apparemment endémique.

Introduction

The mayfly fauna of Canada is relatively species rich (321 species accounted for herein) considering the severe and often limiting far northern climatic conditions with restricted growing seasons that are present in a large portion of the country. This species richness is even more impressive when considering that nearly all of Canada was glaciated as recently as 10,000 years ago, and most present distributions in Canada are attributable to dispersal events and recolonization since that time. Aquatic habitats are, however, abundant throughout the country, and there has been a rich heritage of aquatic scientists who have worked on the fauna from both taxonomic and ecological perspectives.

The first descriptions and earliest report of mayflies from Canada were by Say (1824), wherein he described *Ephoron album* from Manitoba and *Siphonurus alternatus* from the Northwest Territories (both originally as *Baetis*). Several other workers described species from Canada in the latter part of the 19th Century (Say 1839; Walker 1853; Hagen 1861; Provancher 1876, 1878; Eaton 1884-85). Sixteen of the species described from Canada in the nineteenth century remain valid today. Eight of those were described from Ontario, four from Quebec, two from Manitoba, one from Nova Scotia, and one from the Northwest Territories. There were, however, additional nineteenth century reports of another 16 species from Canada: two from Manitoba, seven from Ontario, eight from Quebec, two from Nova Scotia, two from Saskatchewan, and one from British Columbia (see Walker 1853; Hagen 1861, 1863; Eaton 1871, 1885; and Provancher 1876).

It was Walker (1853), in his study of specimens housed in the British Museum at that time, who made the earliest significant contribution to mayfly faunistics in Canada. Walker described 17 species from Canada. Two of those names proved to be homonyms and are known today as *Drunella walkeri* Eaton and *Rhithrogena jejuna* Eaton, eight were later synonymized, and the seven that remain valid are some of the best known species in North America: *Ephemera invaria*, *Ephemera simulans*, *Epeorus vitreus*, *Isonychia bicolor*, *Leptophlebia nebulosa*, *Paraleptophlebia debilis*, and *Siphloplecton basale*.

A remarkable 72% of the valid species known from Canada were originally described from there, yet most of these species also occur in the United States. The immense descriptive contribution to North American ephemeropterology by the Canadian John McDunnough, primarily in the 1920s and 1930s, is undoubtedly the reason for this. McDunnough described 171 species from Canada in some 33 papers (see References). Of the McDunnough species described from Canada, 134 remain valid, although two have been renamed because they were secondary homonyms, and 37 have thus far proven to be junior synonyms. The Canadians W.A. Clemens and F.P. Ide each described four valid species from Canada in the twentieth century. The 14 other twentieth century workers who have authored or co-authored valid species from Canada have named even fewer.

The first substantial faunal list of the Canadian mayfly fauna per se was that of McDunnough (1925a), wherein 134 mostly valid species were recorded country wide. Although a somewhat modified and useful Canadian list (especially for updated provincial records) was given by Walley (1927), nothing on that scale for the entire country has been compiled since that time, and this has

been one of the primary motivations for the present study. There have been, however, considerable regional works in the twentieth century that have contributed significantly to the documentation of species distributions within Canada. Some notable recent examples include Scudder (1975) for British Columbia, Lehmkuhl (1976a) for Saskatchewan, Cobb and Flannagan (1980) and Harper and Harper (1981) for northern Canada, Flannagan and Flannagan (1982) for Manitoba, Larson and Colbo (1983) for Newfoundland, Petersen (1989) for New Brunswick and Nova Scotia, Dulude (1992) for Quebec, and Harper and Harper (1997) for the Yukon Territory.

The purpose of the present work has been to present a concise yet comprehensive inventory of all the species of Ephemeroptera in Canada. This includes a bibliographic account of the initial records of any species for any province or territory under any historical name attributable to the species, in addition to new records presented herein. It also includes a series of checklists for each province and territory, with numerous ancillary data annotated to the species. The study was in part instigated by numerous requests by users of Mayfly Central on the World Wide Web (<http://www.entm.purdue.edu/entomology/mayfly/mayfly.html>) for additional country data associated with the "Mayflies of North America" database.

Methods

Data presented here were compiled by 1) reviewing taxonomic literature wherein Canadian mayflies were described, 2) reviewing revisionary systematic literature dealing with genera that occur in Canada, 3) reviewing synoptic works on Ephemeroptera citing Canadian records, 4) reviewing regional faunal studies carried out in Canada, 5) reviewing limnological survey and macroinvertebrate ecology and toxicology studies carried out in Canada, 6) studying materials from Canada in the Purdue Entomological Research Collection, 7) soliciting new record data from colleagues who have recently made significant collections in Canada, and 8) accessing and identifying certain collections from Canada.

Record data are presented alphabetically by family, genus, and species. Author and year of publication of each species is given, but subspecies are not differentiated. For each species treatment the following is included: The provinces and territories in which it is known are given in bold abbreviation. For each province or territory noted for the species, the bases of that record are given in brackets, either as a bibliographic citation for the first record, or actual locale data for new records being presented. In a few instances, upgraded data serve as the basis of record data (for example, if data were assigned only to an unspecified species previously but can now be verified for a precise species). If the bibliographic data represent the original description of the species and the province or territory also encompasses the type locality of the species, "type" is indicated with the bibliographic citation. If the bibliographic data were given under a synonym or other form of the name, then that is also indicated. First records for all synonyms are given, and first records given under misidentifications are also indicated. New records include stage of mayfly, available locale information, date of collection, collector(s), and material location.

Province and territory abbreviations are as follows: AB = Alberta, BC = British Columbia, MB = Manitoba, NB = New Brunswick, NF = Newfoundland, NS = Nova Scotia, NW = Northwest Territories, ON = Ontario, PE = Prince Edward Island, PQ = Quebec, SA = Saskatchewan, and YU = Yukon Territory. Material locations cited are as follows: CSU = Colorado State University Entomological Collection, Fort Collins; PERC = Purdue Entomological Research Collection, Purdue University, West Lafayette, Indiana; RWG = R.W. Griffiths, private collection, Dutton, Ontario; SASK = University of Saskatchewan, Saskatoon, Saskatchewan.

The checklists include annotations by way of footnotes to species that indicate the following: newly reported provincial or territory records, newly reported Canada records, type localities,

endemism both with respect to province and territory or country, occurrence in other parts of Canada, occurrence in the Palearctic, occurrence in Alaska, and occurrence in the conterminous United States.

Record Data Summary

In keeping with our intention of providing data useful in prioritizing future research on the faunistics of the Canada Ephemeroptera, certain statistics that can be derived from our results are summarized here. Of the 321 species reported below, six represent new records for Canada: *Apobaetis indeprensus* Day (Saskatchewan), *Plauditus cestus* (Provonsha and McCafferty) (Ontario), *Proclleon rivulare* (Traver) (Nova Scotia), *Proclleon viridiculare* (Berner), *Anepeorus simplex* (Walsh) (Ontario), and *Stenacron gildersleevei* (Traver) (Manitoba). Species numbers per province and territory are 102 for Alberta, 92 for British Columbia, 93 for Manitoba, 89 for New Brunswick, 46 for Newfoundland (27 for Newfoundland Island and 28 for Labrador), 87 for Nova Scotia, 52 for the Northwest Territories, 165 for Ontario, 14 for Prince Edward Island, 163 for Quebec, 82 for Saskatchewan, and 28 for the Yukon Territory. Ninety-seven new provincial and territorial records include two for British Columbia, two for Manitoba, 16 for New Brunswick, 17 for Newfoundland (and eight additional records for Labrador that were previously known from Newfoundland Island), 10 for Nova Scotia, one for the Northwest Territories, 11 for Ontario, one for Quebec, 19 for Saskatchewan, and one for the Yukon Territory.

Some 230 species were originally named from Canada. Of the 176 of these that remain valid, 54 were described from Quebec, 43 from Ontario, 40 from Alberta, 17 from British Columbia, nine from Manitoba, four from Nova Scotia, six from Saskatchewan, and three from the Northwest Territories. Thirty-one species are presently considered endemic to Canada. Four species are endemic to Alberta, two to British Columbia, three to Manitoba, one to the Northwest Territories, five to Ontario, four to Quebec, and one to Saskatchewan. Eleven Canadian species are also known from the Palearctic. Sixteen of the Canadian species are also known from Alaska, although the Alaskan fauna remains especially poorly known and undoubtedly more are shared than presently indicated. Some 282 species are shared by Canada and the conterminous United States.

Record Data

ACANTHAMETROPODIDAE

Analetris eximia Edmunds, 1972: **AB** [Barton (1980)]. **SA** [Lehmkuhl (1976b)].

AMELETIDAE

Ameletus bellulus Zloty, 1996: **AB** [Zloty (1996)], type.

Ameletus browni McDunnough, 1933: **PQ** [McDunnough (1933c)], type.

Ameletus celer McDunnough, 1934: **AB** [McDunnough (1934)], type; **McDunnough** (1934) as

Ameletus allicolus McDunnough, 1934, type; **McDunnough** (1939) as *Ameletus tuberculatus* McDunnough, 1939, type; Scudder (1975).

Ameletus cooki McDunnough, 1929: **AB** [Zloty (1996)]. **BC** [McDunnough (1935)].

Ameletus inopinatus Eaton, 1887: **NW** [Zloty (1996)].

Ameletus lineatus Traver, 1932: **PQ** [Dulude (1992)].

Ameletus ludens Needham, 1905: **ON** [Walley (1927)]. **PQ** [McDunnough (1925a)].

Ameletus majusculus Zloty, 1996: **AB** [Zloty (1996)], type.
Ameletus oregonensis McDunnough, 1933: **AB** [Boerger and Clifford (1975)]. **BC** [Scudder (1975)].
SA [Zloty (1996)].

Ameletus pritchardi Zloty, 1996: **AB** [Zloty (1996)], type. **BC** [Zloty (1996)].

Ameletus shepherdii Traver, 1934: **BC** [McDunnough (1938) as *Ameletus querulus* McDunnough, 1938, type].

Ameletus similior McDunnough, 1928: **AB** [McDunnough (1928a)], type. **BC** [McDunnough (1935)]; Mayo (1952) as *Ameletus monti* Mayo, 1952, type.

Ameletus sparsatus McDunnough, 1931: **AB** [McDunnough (1931a)], type. **BC** [McDunnough (1935)]. **NW** [Wiens et al. (1975) as *Ameletus* prob. *sparsatus*].

Ameletus subnotatus Eaton, 1885: **AB** [McDunnough (1925a)]. **BC** [Zloty (1996)]. **MB** [Zloty (1996)]. **NB** [Zloty (1996)]. **NF** [Newfoundland Island, Zloty (1996)]. **ON** [Zloty (1996)]. **PQ** [Harper (1989)].

Ameletus suffusus McDunnough, 1936: **AB** [Zloty (1996)]. **BC** [McDunnough (1936b)], type.

Ameletus tertius McDunnough, 1938: **NF** [Labrador: adult, stream entering Moosehead Lake, Hwy 500, E of Labrador City, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]; adult, Miron River, Hwy 500, E of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adult, West Metchin River, Hwy 500, 32 mi E of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [McDunnough (1938)], type. **PQ** [McDunnough (1932a) as *Ameletus* sp.; Dulude (1992)].

Ameletus validus McDunnough, 1923: **AB** [McDunnough (1923)], type. **BC** [McDunnough (1935)].

Ameletus vancouverensis McDunnough, 1933: **BC** [McDunnough (1933b)], type.
Ameletus velox Dodds, 1923: **AB** [McDunnough (1925a)]. **BC** [Walley (1927); McDunnough (1936b) as *Ameletus connectus* McDunnough, 1936, type; McDunnough (1939) as *Ameletus connectivus* McDunnough, 1939, type].

Ameletus vernalis McDunnough, 1924: **AB** [Zloty (1996)]. **BC** [McDunnough (1924a)], type.

Ameletus walleyi Harper, 1970: **ON** [Harper (1970)], type.

AMETROPODIDAE

Ametropus albrighti Traver, 1935: **SA** [Lehmkuhl (1976a)].

Ametropus neavei McDunnough, 1928: **AB** [McDunnough (1928a)], type. **NW** [Cobb et al. (1995)].
SA [Allen and Edmunds (1976)].

ARTHROPLEIDAE

Arthroplea bipunctata (McDunnough), 1924: **NB** [Whiting (1992)]. **NS** [Petersen (1989)].
NW [Wiens et al. (1975) as *Arthroplea* sp.; Cobb and Flammagan (1980)]. **ON** [Walley (1927) as *Cinygma*]. **PQ** [McDunnough (1925a, 1925b) as *Cinygma*].

BAETIDAE

Acentrella insignificans (McDunnough), 1926: **AB** [Moriwaka and McCafferty (1979) as *Baetis*].
BC [McDunnough (1926b) as *Baetis*, type]. **NW** [Moore (1977) as *Baetis* sp.]. **SA** [larvae, South Saskatchewan River, ferry E of Hague, 20 July, 8, 17 August 1972, D.H. Smith (SASK); South Saskatchewan R, ferry N of Birch Hills, 7 June, 24 August, 14 September 1972, D.H. Smith (SASK); South Saskatchewan River, Clarksboro Ferry, 29 May, 9 June 1972, D.H. Smith (SASK); South Saskatchewan River, ferry 4 mi E of Warren, D.H. Smith (SASK);

South Saskatchewan River, Lemsford Ferry, 14 July 1971, D.M. Lehmkühl; North Saskatchewan River, 10 mi E Prince Albert, Cecil Ferry, 1 June 1971, D.H. Lehmkühl (SASK)]. YU [Harper and Harper (1997)].

Acentrella lapponica Bengtsson, 1912: NF [Labrador: Harper and Harper (1981) as *Baetis*]. NW [McDunnough (1936a) as *Baetis*]. PQ [Harper and Harper (1981) as *Baetis*].

Acentrella turbida (McDunnough), 1924: AB [McDunnough (1924a) as *Pseudocloeon*, type]. BC [McCafferty et al. (1994)]. MB [Flannagan et al. (1990) as *Pseudocloeon*, type]. Miramichi River, 2 September 1950, 17 August 1950, E.L. Bousefield (PERC)]. ON [Walley (1927) as *Pseudocloeon carolina* (Banks), 1924]. PQ [McDunnough (1925b) as *Pseudocloeon carolina* (Banks), 1924]. SA [larvae, Meeyomoot River, at Hwy 165, 17 June 1971, D.H. Smith (SASK); South Saskatchewan River, 1 mi upstream from Saskatoon, 10 August 1970, D.M. Lehmkühl (SASK); North Saskatchewan River, ferry 10 mi E of Prince Albert, 21 September 1972 (SASK)].

Acerpenna akataleptos (McDunnough), 1926: AB [McDunnough (1926a) as *Baetis*, type].

Acerpenna macdunnoughi (Ide), 1937: NB [Petersen (1989) as *Baetis*]. NF [Newfoundland Island: Larson and Colbo (1983) as *Baetis*. Labrador: larva, Miron River, Hwy 500, E of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. NS [Petersen (1989) as *Baetis*]. ON [Flannagan and Cobb (1995)]. PQ [Ide (1937) as *Baetis*, type].

Acerpenna pygmaea (Hagen), 1861: MB [Friesen et al. (1980) as *Baetis*; Friesen et al. (1980) as *Baetis harri* McDunnough, 1924]. NB [Petersen (1989) as *Baetis*]. NF [Newfoundland Island: Larson and Colbo (1983) as *Baetis*]. NS [Petersen (1989) as *Baetis*]. NW [Cobb and Flannagan (1980) as *Baetis*]. ON [McDunnough (1925a) as *Baetis*]. PQ [Hagen (1861) as *Cloe*, type]. SA [adults, North Saskatchewan River, ferry 10 mi E of Prince Albert, 13, 14 July 1981, D.M. Lehmkühl (SASK)].

Apobaetis indeprentus Day, 1955: SA [larvae, South Saskatchewan R, Ferry N of Lemsford, 10 August 1971, D.M. Lehmkühl (SASK); adult, South Saskatchewan River, ferry N of Birch Hills, 7 June 1972, D.H. Smith (SASK)].

Baetis bicaudatus Dods, 1923: AB [Moriwara and McCafferty (1979)]. BC [Walley (1927)]. NW [Moore (1977)]. YU [Cobb et al. (1995)].

Baetis brunneicolor McDunnough, 1925: MB [Moriwara and McCafferty (1979)]. NB [Eidt (1975)]. NS [Petersen (1989)]. ON [McDunnough (1925d), type]. PE [larvae, Prince Co., Mimmegash River, Hwy 151, 19 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. PQ [McDunnough (1932a)]. SA [larvae and adults, North Saskatchewan River, ferry 10 mi E of Prince Albert (SASK); adults, River 37 mi N of Green Lake, 10 July 1974, L. Dossall (SASK)].

Baetis bundyae Lehmkühl, 1973: BC [larvae, North Garnet Creek at old mine road, 7 km W of Endako, 15 June 1992, E. Whiting (PERC)]. MB [Harper and Harper (1981) as *Baetis macani bundyae*]. NF [Labrador: Harper and Harper (1981) as *Baetis macani bundyae*]. NW [Lehmkühl (1973), type]. PQ [Harper and Harper (1981) as *Baetis macani bundyae*]. YU [Harper and Harper (1981) as *Baetis macani bundyae*; Harper and Harper (1997)].

Baetis flavistriga McDunnough, 1921: MB [Moriwara and McCafferty (1979)]. NB [Eidt (1975) as *Baetis levitans* McDunnough, 1925; Petersen (1989)]. NF [Newfoundland Island: Larson and Colbo (1983)]. NS [Petersen (1989)]. NW [Cobb and Flannagan (1980)]. ON [McDunnough (1921), type; McDunnough (1923) as *Baetis nanus* McDunnough, 1923, type; McDunnough (1923) as *Baetis phoebus* McDunnough, 1923, type; Walley (1927) as *Baetis cingulatus* McDunnough, 1925; Walley (1927) as *Baetis levitans* McDunnough, 1925; Walley (1927) as

Baetis pallidula McDunnough, 1924; Griffiths (1996)]. PE [larvae, Prince Co., Mimmegash River, Hwy 151, 19 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. PQ [McDunnough (1925a, 1925b); McDunnough (1925a) as *Baetis phoebus* McDunnough, 1923; McDunnough (1925b) as *Baetis cingulatus* McDunnough, 1925, type; McDunnough (1925b) as *Baetis levitans* McDunnough, 1925, type]. SA [adults, North Saskatchewan River, ferry 10 mi E of Prince Albert, 24 August 1971, D.H. Smith (SASK); Crean River at Hwy 2, 4 June 1974, D.M. Lehmkühl (SASK)].

Baetis foemina McDunnough, 1936: NW [McDunnough (1936a), type].

Baetis hudsonicus Ide, 1937: MB [Ide (1937), type]. ON [larvae, Kenora, trib. Breakneck Creek, 26 June 1990, W.B. Morton (PERC)]. SA [larvae, Saskatchewan River at mile 2 of Hwy 165, 17 June 1971, D.H. Smith (SASK)].

Baetis intercalaris McDunnough, 1921: MB [McDunnough (1925a)]. NB [Moriwara and McCafferty (1979)]. NS [Petersen (1989)]. ON [McDunnough (1921), type]. PQ [McDunnough (1925a)].

Baetis moiffatii Dods, 1923: AB [McDunnough (1925a)]. BC [Walley (1927)].

Baetis parallelus Banks, 1924: AB [Walley (1927)]. BC [Walley (1927)].

Baetis persecutor McDunnough, 1939: AB [Hamilton and Clifford (1983)]. BC [McDunnough (1939), type].

Baetis pluto McDunnough, 1925: MB [Flannagan et al. (1990)]. NB [Eidt (1975)]. NS [Petersen (1989)]. ON [Walley (1927)]. PQ [McDunnough (1925b), type; McDunnough (1925b) misidentified in part as *Baetis rusticans* McDunnough, 1925].

Baetis rusticans McDunnough, 1925: NB [Eidt (1975)]. ON [Walley (1927)]. PQ [McDunnough (1925b), type].

Baetis tricaudatus Dods, 1923: AB [McDunnough (1925a) as *Baetis intermedius* Dods, 1923; Clifford (1969)]. BC [McDunnough (1925a); Walley (1927) as *Baetis intermedius* Dods, 1923; McDunnough (1938) as *Baetis jesmondensis* McDunnough, 1938, type]. MB [Ide (1937) as *Baetis vagans* McDunnough, 1925; Morihara and McCafferty (1979)]. NB [Eidt (1975) as *Baetis vagans* McDunnough, 1925; Petersen (1989)]. NF [Newfoundland Island: Larson and Colbo (1983); Labrador: larvae, Raft River, Hwy 500, 34 mi N of Churchill Falls, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]; larvae, Trout Brook, Hwy 510, Pinware, 6 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. NS [Moriwara and McCafferty (1979)]. NW [Wiens et al. (1975) as *Baetis* prob. *vagans* McDunnough, 1925]. ON [Walley (1927) as *Baetis incertans* McDunnough, 1925; Walley (1927) as *Baetis vagans* McDunnough, 1925; Morihara and McCafferty (1979)]. PE [larvae and adults, Prince Co., Tignish River, Hwy 158, 19 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. PQ [McDunnough (1925b) as *Baetis incertans* McDunnough, 1925, type; McDunnough (1925b) as *Baetis vagans* McDunnough, 1925, type; Morihara and McCafferty (1979)]. SA [Lehmkühl (1976a) as *Baetis vagans* McDunnough, 1925; Dossall and Lehmkühl (1989a, 1989b)]. YU [Cobb et al. (1995)].

Callibaetis ferrugineus (Walsh), 1862: AB [McDunnough (1925a) as *Callibaetis tessellatus* (Hagen), 1861; Walley (1927) as *Callibaetis americanus* Banks, 1900; Neave (1929) as *Callibaetis coloradensis* Banks, 1900]. BC [Eaton (1885); McDunnough (1925a) as *Callibaetis coloradensis* Banks, 1900; McDunnough (1925a) as *Callibaetis tessellatus* (Hagen), 1861; Walley (1927) as *Callibaetis hogeni* Eaton, 1885; Filmer (1964) as *Callibaetis carolus* Traver, 1935; Filmer (1964) as *Callibaetis nigrinus* Banks, 1918]. MB [Banks (1912); McDunnough (1925a) as *Callibaetis americanus* Banks, 1900]. NB [McDunnough (1925a) as *Callibaetis coloradensis* Banks, 1900]. NF [Newfoundland Island: Check (1982)]. NS [Check (1982)]. NW [Cobb et al. (1995) as *Callibaetis coloradensis* Banks, 1900]. ON [Hagen (1861) misidentified as *Cloe bioculata* (sic) (Linnaeus), 1758; Banks (1900) as *Callibaetis americanus*

- Banks, 1900, type; Clemens (1913)]. **PE** [adults, Queens Co., Rt. 1, Charlottetown, at light, 20 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **PQ** [McDunnough (1930) as *Callibaetis hageni* Eaton, 1885; Harper and Harper (1976)]. **SA** [adults, Sturgeon River at Hwy 240, 4 August 1969, D.M. Lehmkuhl (SASK); Rystrom's Pond, 4 km SE Saskatoon, 11 August 1986, Dale Parker (SASK); La Ronge, 9 August 1970, R.G. Holmberg (SASK); Twin Forks, 24 May 1974, R. Demaray (SASK)]. **YU** [Harper and Harper (1981) as *Callibaetis prob. coloradensis* Banks, 1900; Harper and Harper (1997)]. **PQ** [Gibbs (*Callibaetis fluctuans* (Walsh), 1862; **MB** [Hagen (1863) as *Cloe*]. **ON** [Walley (1927)]. **PQ** [Gibbs (1979)].
- Callibaetis pallidus* Banks, 1900: **AB** [Neave (1929)]. **MB** [Banks (1914) as *Callibaetis semicostatus* Banks, 1914, type; McDunnough (1925a)]. **NF** [Newfoundland Island; Berner (1959) as *Callibaetis nr skokianus* Needham, 1903]. **SA** [McDunnough (1925a)].
- Callibaetis pretiosus* Banks, 1924: **ON** [Thew (1959)].
- Callibaetis skokianus* Needham, 1903: **ON** [Ide (1930)]. **PQ** [Harper and Harper (1982)]. **SA** [Thew (1959) as *Callibaetis brevicostatus* Daggy, 1945].
- Camelobaetis warreni* (Traver and Edmunds), 1968: **SA** [McCafferty and Klubertanz (1994)].
- Centroptilium album* McDunnough, 1926: **BC** [Scudder (1975)]. **MB** [Lowen and Flannagan (1991)]. **NB** [Lowen and Flannagan (1991)]. **ON** [McDunnough (1926a), type]. **PQ** [McDunnough (1926a)].
- Centroptilium bifurcatum* McDunnough, 1924: **AB** [McDunnough (1924a), type]. **BC** [Scudder (1975)]. **MB** [Lowen and Flannagan (1991)]. **ON** [larvae, Algoma Co., Lake Superior, Batchawana Bay, north shore, 8 August 1994, P. Hudson (PERC)]. **SA** [larvae and adults: South Saskatchewan River, Lemsford Ferry, 3, 26 September 1970, 28 August 1971, 29 June 1971, D.M. Lehmkuhl (SASK); South Saskatchewan River at Saskatoon, 10 August 1970, D.M. Lehmkuhl (SASK); North Saskatchewan River, ferry 10 mi E of Prince Albert, D.H. Smith, 21 September 1972 (SASK); adults, South Saskatchewan River, Saskatoon, .25 mi upstream of Queen Elizabeth Power Station, 27 June 1976, (SASK); North Saskatchewan River at Hwy 5 (Border Bridge), 18 June 1976, P.G. Mason (SASK)].
- Centroptilium conturbatum* McDunnough, 1929: **AB** [McDunnough (1929), type]. **BC** [Scudder (1975)]. **MB** [Flannagan et al. (1990)].
- Centroptilium minor* (McDunnough), 1926: **ON** [McDunnough (1926a) as *Cloeon*, type].
- Centroptilium semirufum* McDunnough, 1926: **ON** [Eaton (1871) misidentified as *Centroptilium luteolum* (Müller), 1776; McDunnough (1926a), type]. **PQ** [Dulude (1992)].
- Centroptilium triangulifer* (McDunnough), 1931: **ON** [McDunnough (1931a) as *Cloeon*, type]. **PQ** [McDunnough (1931a) as *Cloeon*].
- Centroptilium victoricae* McDunnough, 1938: **MB** [Lowen and Flannagan (1991)]. **NS** [McDunnough (1938), type]. **ON** [Lowen and Flannagan (1991)]. **SA** [larvae, North Saskatchewan R, Cecil Ferry 10 mi E Prince Albert, 11 June 1971, D.M. Lehmkuhl (SASK); adult, South Saskatchewan R, Lemsford Ferry, 12 July 1972, D.M. Lehmkuhl (SASK)].
- Diphetero hageni* (Eaton), 1885: **AB** [McDunnough (1925a, 1925b) as *Baetis parvus* Dodds, 1923; Morihiro and McCafferty (1979) as *Baetis*]. **BC** [Walley (1927) as *Baetis parvus* Dodds, 1923]. **MB** [Gyselman (1980) as *Baetis*]. **NB** [Eidt (1975) as *Baetis herodes* Burks, 1953]. **NS** [adult and larvae, Cochester Co., Bailey's Brook, Rt 256, W of Falls, 3 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **NW** [Cobb and Flannagan (1980) as *Baetis*]. **ON** [McDunnough (1925b) as *Baetis parvus* Dodds, 1923; Spence and Hynes (1971) as *Baetis*].

- herodes* Burks, 1953; Morihiro and McCafferty (1979) as *Baetis*]. **PQ** [Walley (1927) as *Baetis parvus* Dodds, 1923; Morihiro and McCafferty (1979) as *Baetis*]. **SA** [larvae, Pine Creek at Hwy 69, 17 June 1971, D.H. Smith (SASK)].
- Falleon quillieri* (Dodds), 1923: **MB** [Flannagan et al. (1990) as *Baetis*]. **SA** [Lehmkuhl (1976a) as *Baetis*].
- Heterocloeon curiosum* (McDunnough), 1923: **NB** [Petersen (1989)]. **ON** [McDunnough (1923) as *Centroptilium*, type]. **PQ** [McDunnough (1925a)].
- Heterocloeon frivolum* (McDunnough), 1925: **ON** [McDunnough (1925d) as *Baetis*]. **PQ** [McDunnough (1925d) as *Baetis*, type].
- Labiobaetis dardanus* (McDunnough), 1923: **MB** [McDunnough (1923) as *Baetis*, type]. **ON** [McDunnough (1925a)]. **PQ** [McDunnough (1925a)]. **SA** [larvae, South Saskatchewan River, Lemsford Ferry, 21 June, 12 July 1971, D.M. Lehmkuhl, 25 June 1972, D.H. Smith (SASK); South Saskatchewan River, Saskatoon, .25 mi upstream from Queen Elizabeth Power Station, 23 July 1972, D.H. Smith (SASK); South Saskatchewan River, Clarksboro Ferry, 17 August 1972, D.H. Smith (SASK); South Saskatchewan River at Cecil Ferry, 11 June 1971, D.M. Lehmkuhl (SASK); South Saskatchewan River, 1 mi upstream from Saskatoon, 13 July 1971, D.M. Lehmkuhl (SASK); Saskatchewan River, Fronlid Ferry, 21 July 1971, D.H. Smith (SASK); North Saskatchewan River, at Hwy 5 (Borden Bridge), 31 July 1972, D.H. Smith (SASK); North Saskatchewan River, ferry S of Maymont, 6 June 1972, D.H. Smith (SASK); North Saskatchewan River, at Cecil Ferry, 11 June 1971, D.M. Lehmkuhl (SASK); North Saskatchewan River, 20 mi N of Lloydminster, 4 July 1970, D.M. Lehmkuhl (SASK); North Saskatchewan River, 20 mi N of Lloydminster, 4 July 1970, D.M. Lehmkuhl (SASK); adults, Saskatchewan River SW of Nipawin, 2 August 1972, D.H. Smith (SASK)].
- Labiobaetis frondalis* (McDunnough), 1925: **NS** [Morihiro and McCafferty (1979) as *Baetis*]. **ON** [Walley (1927) as *Baetis*]. **PQ** [McDunnough (1925d) as *Baetis*, type].
- Labiobaetis longipalpus* (Morihiro and McCafferty), 1979: **ON** [Griffiths (1996)].
- Labiobaetis propinquus* (Walsh), 1863: **MB** [McDunnough (1925d) as *Baetis spinosus* McDunnough, 1925, type]. **NB** [larvae, Kent Co., South Fork Coal Branch River, Hwy 126, 12 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Morihiro and McCafferty (1979) as *Baetis*]. **ON** [Clemens (1913) as *Baetis*; Walley (1927) as *Baetis spinosus* McDunnough, 1925]. **PQ** [Walley (1927) as *Baetis spinosus* McDunnough, 1925; Harper and Harper (1981) as *Baetis*]. **SA** [adults, Sturgeon River at Hwy 240, 4 August 1969, D.M. Lehmkuhl (SASK); larvae, Little Red River Park, at Prince Albert, 17 June 1971, D.H. Smith (SASK); Saskatchewan River, ferry N of Fronlid, 29 July 1972, D.H. Smith (SASK)]. **YU** [Wiens et al. (1975) as *Baetis* cf. *propinquus*; Cobb and Flannagan (1980) as *Baetis*].
- Plautius armillatus* McCafferty & Waltz, 1990: **AB** [McDunnough (1932b) as *Pseudocloeon parvulum* McDunnough, 1932]. **MB** [Flannagan and Flannagan (1982) as *Baetis parvulum* (McDunnough), 1932]. **ON** [McDunnough (1932b) as *Pseudocloeon parvulum* McDunnough, 1932, type of *P. armillatus*; Griffiths (1996) as *Baetis*]. **PQ** [McDunnough (1932b) as *Pseudocloeon parvulum* McDunnough, 1932]. **SA** [larvae and adults, South Saskatchewan River, ferry N of Birch Hills, 19 June 1974, D.H. Smith and L. Dodge (SASK)].
- Plautius cestus* (Provonsha and McCafferty), 1982: **ON** [larvae, Nottawasaga River at Simcoe Side Road 10, 16 June 1997, R.W. Griffiths and C. Jones (PERC, RWG)].

- Plautius cinctus* McCafferty and Waltz, 1990: **ON** [Sprules (1947) as *Pseudocloeon cingulatum* McDunnough, 1931; Griffiths (1996) as *Baetis*]. **PQ** [McDunnough (1931a) as *Pseudocloeon cingulatum* McDunnough, 1931, type of *P. cinctus*].
Plautius dubius (Walsh), 1862: **AB** [McDunnough (1931a) as *Pseudocloeon*]. **MB** [McDunnough (1925a) as *Pseudocloeon*]. **ON** [McDunnough (1923) as *Cloeon chlorops* McDunnough, 1923, type; Ide (1937) as *Pseudocloeon dubium* (McDunnough)]. **PQ** [Walley (1927) as *Pseudocloeon chlorops* McDunnough, 1923]. **SA** [adults, South Saskatchewan River, ferry N of Birch Hills, 6 July 1972 (SASK)].
Plautius futilis (McDunnough), 1931: **AB** [McDunnough (1931a) as *Pseudocloeon*, type].
Plautius punctiventris (McDunnough), 1923: **MB** [Friesen et al. (1980) as *Pseudocloeon*; Gyselman (1980) as *Pseudocloeon myrsum* Burks, 1953]. **NB** [Petersen (1989) as *Pseudocloeon*]. **NS** [Petersen et al. (1987) as *Pseudocloeon*]. **ON** [McDunnough (1923) as *Cloeon*, type]. **PQ** [McDunnough (1925a) as *Pseudocloeon*]. **SA** [larvae, Battle River, S of Laburn, 27 August 1972, D.H. Smith (SASK)].
Plautius rubrolateralis (McDunnough), 1931: **AB** [McDunnough (1931a) as *Pseudocloeon*, type].
Plautius virilis (McDunnough), 1923: **ON** [McDunnough (1923) as *Cloeon*, type]. **PQ** [McDunnough (1924a) as *Pseudocloeon*]. **SA** [larvae, river 2 mi S Hudson Bay, Sask., 27 August 1969, D.M. Lehmkuhl (SASK)].
Proclleon bellum (McDunnough), 1924: **BC** [Filmer (1964) as *Centropitulum*]. **NB** [larvae, Charlo River, 2 August 1950, G.F. Edmunds (PERC)]. **NS** [Whiting (1992) misidentified as *Centropitulum venosum* Traver, 1935]. **ON** [Walley (1927) as *Centropitulum*]. **PQ** [McDunnough (1924a) as *Centropitulum*, type; Harper (1989) misidentified as *Centropitulum venosum* Traver, 1935].
Proclleon caliginosum (McDunnough), 1925: **PQ** [McDunnough (1925d) as *Centropitulum*, type].
Proclleon convexum (Ide), 1930: **MB** [Flannagan et al. (1990) as *Centropitulum*]. **NF** [Newfoundland Island: Larson and Colbo (1983) as *Centropitulum*]. **ON** [Ide (1930) as *Centropitulum*, type].
Proclleon fragile (McDunnough), 1923: **ON** [McDunnough (1923) as *Centropitulum*, type]. **PQ** [McDunnough (1925a) as *Centropitulum*].
Proclleon implicatum (McDunnough), 1924: **AB** [McDunnough (1923) misidentified in part as *Centropitulum ingens* McDunnough, 1923; McDunnough (1924a) as *Cloeon*, type]. **BC** [McDunnough (1924a) as *Cloeon*].
Proclleon inanimatum (McDunnough), 1924: **AB** [McDunnough (1924a) as *Cloeon*, type]. **MB** [Harper and Harper (1981) as *Cloeon*].
Proclleon ingens (McDunnough), 1923: **AB** [McDunnough (1923) as *Cloeon*, type]. **MB** [McDunnough (1925a) as *Cloeon*]. **PQ** [McDunnough (1930) as *Cloeon*]. **YU** [Harper and Harper (1997)].
Proclleon insignificans (McDunnough), 1925: **ON** [McDunnough (1925d) as *Cloeon*, type].
Proclleon intermediale (McDunnough), 1931: **PQ** [McDunnough (1931a) as *Centropitulum*, type].
Proclleon irruatum Lowen and Flannagan, 1992: **MB** [Lowen and Flannagan (1992), type].
Proclleon mendax (Walsh), 1862: **ON** [Ide (1930) as *Cloeon*].
Proclleon ozburni (McDunnough), 1924: **ON** [McDunnough (1925a)]. **PQ** [McDunnough (1924a) as *Centropitulum*, type].
Proclleon pennulatum (Eaton), 1870: **AB** [McDunnough (1931a) as *Centropitulum infrequens* McDunnough, 1924]. **MB** [McDunnough (1924a) as *Centropitulum infrequens* McDunnough, 1924, type]. **NB** [larvae, Mirimichi River, 2 September 1950, E.L. Bousefield (PERC)].

- NW** [Lowen and Flannagan (1990) as *Centropitulum infrequens* McDunnough, 1924; Cobb et al. (1995)]. **SA** [Lowen and Flannagan (1990) as *Centropitulum infrequens* McDunnough, 1924].
Proclleon quaesitum (McDunnough), 1931: **AB** [McDunnough (1931a) as *Centropitulum*, type]. **MB** [Neave (1934) as *Centropitulum*]. **SA** [larvae, Wallaston Lake, Sum. 64, 6 July 1972 (SASK)].
Proclleon rivularis (Traver), 1935: **NS** [larvae, Riv. Philip, 9 July 1950, G.F. Edmunds (PERC); larvae, Hillisburn Stream, Rapids, 24 June 1950, G.F. Edmunds (PERC)].
Proclleon rubropictum (McDunnough), 1923: **MB** [Friesen et al. (1980) as *Cloeon*]. **NB** [larvae, Mirimichi River, 17 August 1950, E.L. Bousefield (PERC)]. **NS** [Whiting (1992)].
ON [Clemens (1913) as *Cloeon dubium* (Walsh), 1862; McDunnough (1923) as *Cloeon*, type]. **PQ** [McDunnough (1925a) as *Cloeon*]. **SA** [larvae, Lac La Ronge, Nemeiben River, 22 July 1969, D.M. Lehmkuhl (SASK)].
Proclleon rufosrigatum (McDunnough), 1924: **MB** [McDunnough (1924a) as *Centropitulum*, type]. **NB** [Traver (1935a) as *Centropitulum*]. **NS** [Whiting (1992)]. **PQ** [Harper and Harper (1981) as *Centropitulum*].
Proclleon simile (McDunnough), 1924: **ON** [Traver (1935a) as *Centropitulum*]. **PQ** [McDunnough (1924a) as *Centropitulum*, type].
Proclleon simplex (McDunnough), 1925: **ON** [Walley (1927) as *Cloeon*]. **PQ** [McDunnough (1925d) as *Cloeon*, type].
Proclleon viridoculare (Berner), 1940: **ON** [larvae, Nottawasaga River at Simcoe Side Road 10, 16 June 1997, R.W. Griffiths (RWG)].
Proclleon walsfhi (McDunnough), 1929: **MB** [Flannagan et al. (1990) as *Centropitulum*].

BAETISCIDAE

Baetisca callosa Traver, 1931 nomen dubium: **PQ** [McDunnough (1932b)].
Baetisca carolina Traver, 1931: **PQ** [McDunnough (1932b)].
Baetisca lacustris McDunnough, 1932: **AB** [Lehmkuhl (1972) as *Baetisca bajkovi* Neave, 1934; Pescador and Berner (1981)]. **MB** [McDunnough (1932b); Neave (1934) as *Baetisca bajkovi* Neave, 1934, type]. **ON** [Banks (1912) as *Baetisca obesa* (Say), 1839; McDunnough (1932b), type]. **PQ** [Dultide (1992)]. **SA** [Lehmkuhl (1972) as *Baetisca bajkovi* Neave, 1934; Pescador and Berner (1981)].
Baetisca laurentina McDunnough, 1932: **AB** [Pescador and Berner (1981)]. **MB** [Pescador and Berner (1981)]. **NB** [McDunnough (1932b)]. **NF** [Labrador: larvae, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); larvae, Ashuanipi River, Hwy 500, W of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); larva, Raft River, Hwy 500, 34 mi N of Churchill Falls, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Whiting (1992)]. **NW** [Pescador and Berner (1981)]. **ON** [McDunnough (1932b)]. **PQ** [McDunnough (1932b), type].
Baetisca obesa (Say), 1839: **AB** [Lehmkuhl (1972)]. **MB** [Burks (1953)]. **NW** [Wiens et al. (1975) as *Baetisca* sp.; Cobb and Flannagan (1980)]. **ON** [Barton and Hynes (1978) and possibly earlier by Rawson (1950)]. **SA** [Lehmkuhl (1972)].
Baetisca rubescens (Provancher), 1878: **NF** [Labrador: larvae, West Mechin River, Hwy 500, 32 mi E of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); larvae, Unknown River, Twin Falls rd, 21 mi W of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **PQ** [Provancher (1876) misidentified as *Cloe unicolor* Hagen, 1861; Provancher (1878) as *Cloe*, type].

CAENIDAE

- Brachycercus flavus* Traver, 1935: **PQ** [Harper and Harper (1976); Dulude (1992) misidentified as *Brachycercus prudens* (McDunnough), 1931].
- Brachycercus lacustris* (Needham), 1918: **NS** [larva, Hants Co., Herbert River, Hwy 4, 20 June 1994, R. Raymond (CSU)]. **ON** [Ide (1930) as *Eurycaenis pallidus* Ide, 1930, type]. **PQ** [Lauzon and Harper (1988)].
- Brachycercus prudens* (McDunnough), 1931: **SA** [McDunnough (1931e) as *Eurycaenis*, type].
- Caenis amica* Hagen, 1861: **AB** [McDunnough (1931e) as *Caenis simulans* McDunnough, 1931; Provonsha (1990)]. **BC** [Traver (1935a) as *Caenis simulans* McDunnough, 1931; Provonsha (1990)]. **MB** [McDunnough (1931e) as *Caenis simulans* McDunnough, 1931].
- NB** [McDunnough (1931e) as *Caenis simulans* McDunnough, 1931]. **NF** [Newfoundland Island: Larson and Colbo (1983) as *Caenis simulans* McDunnough, 1931]. **ON** [McDunnough (1931e) as *Caenis simulans* McDunnough, 1931, type]. **PQ** [McDunnough (1931e) as *Caenis simulans* McDunnough, 1931; Provonsha (1990)]. **SA** [McDunnough (1931e) as *Caenis simulans* McDunnough, 1931; Provonsha (1990)].
- Caenis candida* Harper and Harper, 1981: **PQ** [Harper and Harper (1981), type].
- Caenis diminuta* Walker, 1853: **NS** [Provonsha (1990)]. **ON** [Banks (1912)]. **PQ** [McDunnough (1925a)].
- Caenis hilaris* (Say), 1839: **ON** [Walley (1927)].
- Caenis latipennis* Banks, 1907: **AB** [Provonsha (1990)]. **MB** [McDunnough (1931e) as *Caenis forcipata* McDunnough, 1931; Provonsha (1990)]. **NB** [McDunnough (1931e) as *Caenis jocosca* McDunnough, 1931; Provonsha (1990)]. **ON** [McDunnough (1931e); McDunnough (1931e) as *Caenis forcipata* McDunnough, 1931, type; McDunnough (1931e) as *Caenis jocosca* McDunnough, 1931]. **PQ** [McDunnough (1931e) as *Caenis forcipata* McDunnough, 1931; McDunnough (1931e) as *Caenis jocosca* McDunnough, 1931; Provonsha (1990)]. **SA** [McDunnough (1931e)].
- Caenis punctata* McDunnough, 1931: **ON** [McDunnough (1931e)]. **PQ** [McDunnough (1931e), type].
- Caenis youngi* Roemhild, 1984: **AB** [Provonsha (1990)]. **NW** [Cobb et al. (1995)]. **ON** [all larvae: Young-Davidson Pond #1, Matachewan, 28 May 1996, R. W. Griffiths and G. Watson (PERC, RWG); small lakes nr Falconbridge, October 1997, D. Zaranko (PERC)]. **SA** [Parker (1992)]. **YU** [Cobb et al. (1995)].

EPHEMERELLIDAE

- Attenella attenuata* (McDunnough), 1925: **NB** [Allen and Edmunds (1961b) as *Ephemerella*]. **NS** [Petersen (1989) as *Ephemerella*]. **ON** [McDunnough (1931c) as *Ephemerella*]. **PQ** [McDunnough (1925c) as *Ephemerella*, type].
- Attenella margarita* (Needham), 1927: **AB** [Walley (1930) as *Ephemerella*]. **BC** [Walley (1927) misidentified as *Ephemerella attenuata* McDunnough, 1925; larvae, Trout Creek at Summerland, 16 August 1964, G.F. Edmunds (PERC)]. **NB** [Allen and Edmunds (1961b)]. **NS** [Allen and Edmunds (1961b)].

Caudatella heterocaudata (McDunnough), 1929: **BC** [McDunnough (1935) as *Ephemerella*

- columbiella* McDunnough, 1935, type; Allen and Edmunds (1961a) as *Ephemerella*].
- Caudatella hystrix* (Traver), 1934: **BC** [McDunnough (1935) as *Ephemerella*].
- Caudatella jacobii* (McDunnough), 1939: **BC** [McDunnough (1939) as *Ephemerella*, type].
- Drunella coloradensis* (Dodds), 1923: **AB** [McDunnough (1929) as *Ephemerella*]. **BC** [Clemens et al. (1938) as *Ephemerella*; Mayo (1952) as *Ephemerella wilsoni* Mayo, 1952, type]. **NW** [Cobb et al. (1995)]. **YU** [Allen and Edmunds (1962b)].
- Drunella cornuta* (Morgan), 1911: **NB** [Petersen (1989) as *Ephemerella*]. **NF** [Newfoundland Island: Berner (1959) misidentified as *Ephemerella cornutella* McDunnough, 1931]. **NS** [Allen and Edmunds (1962b) as *Ephemerella*]. **ON** [Ide (1930) as *Ephemerella depressa* Ide, 1930, type; Allen and Edmunds (1962b) as *Ephemerella*]. **PQ** [McDunnough (1931c) as *Ephemerella*].
- Drunella cornutella* (McDunnough), 1931: **NB** [McDunnough (1931c) as *Ephemerella*]. **NF** [Labrador: larvae, Miron River, Hwy 500, E of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [McDunnough (1931c) as *Ephemerella*]. **PQ** [McDunnough (1931a) as *Ephemerella*, type; McDunnough (1931c) as *Ephemerella*].
- Drunella doddsi* (Needham), 1927: **AB** [McDunnough (1928a) as *Ephemerella*]. **BC** [Clemens et al. (1938) as *Ephemerella*]. **NW** [Cobb et al. (1995)]. **YU** [Allen and Edmunds (1962b) as *Ephemerella*].
- Drunella flavilinea* (McDunnough), 1926: **AB** [McDunnough (1926a) as *Ephemerella*, type; Hartland-Rowe (1964) as *Ephemerella lapidula* McDunnough, 1935]. **BC** [Walley (1927) as *Ephemerella*].
- Drunella grandis* (Eaton), 1884: **AB** [Neave (1929)]. **BC** [McDunnough (1934) as *Ephemerella ingens* McDunnough, 1934, type; Allen and Edmunds (1962b) as *Ephemerella*]. **SA** [Lehmkuhl (1976a) as *Ephemerella*]. **YU** [Allen and Edmunds (1962b)].
- Drunella lata* (Morgan), 1911: **NB** [Allen and Edmunds (1962b) as *Ephemerella*]. **NS** [Allen and Edmunds (1962b) as *Ephemerella*]. **PQ** [McDunnough (1926a) as *Ephemerella inflata* McDunnough, 1926, type; McDunnough (1931c) as *Ephemerella*].
- Drunella pelosa* (Mayo), 1951: **BC** [Scudder (1975) as *Ephemerella*].
- Drunella spinifera* (Needham), 1927: **AB** [Barton (1980) as *Ephemerella*]. **BC** [McDunnough (1934) as *Ephemerella autumnalis* McDunnough, 1934, type; Mayo (1952) as *Ephemerella*].
- Drunella tuberculata* (Morgan), 1911: **NB** [Petersen and Martin-Robichaud (1986)]. **NS** [Petersen et al. (1985)]. **ON** [McDunnough (1931c) as *Ephemerella*]. **PQ** [McDunnough (1931c) as *Ephemerella*].
- Drunella walkeri* (Eaton), 1884: **NB** [McDunnough (1931c) as *Ephemerella fuscata* (Walker), 1853; Allen and Edmunds (1962b) as *Ephemerella*]. **NS** [Allen and Edmunds (1962b) as *Ephemerella*]. **ON** [Walker (1853) as *Baetis fuscata* Walker, 1853, type of *D. walkeri*]. **PQ** [McDunnough (1925a) as *Ephemerella fuscata* (Walker), 1853; McDunnough (1931c) as *Ephemerella*].

Ephemerella aurivillii (Bengtsson), 1908: **AB** [McDunnough (1924b) as *Ephemerella norda* McDunnough, 1924, type; Barton (1980)]. **BC** [Wigle and Thomassen (1990)]. **NB** [Eid (1975)]. **NF** [Newfoundland Island: Berner (1959). Labrador: larva, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); larvae, Trout River, Hwy 510 N of Pinware, 6 June 1998, B.C. Kondratieff and R.W. Baumann (CSU, PERC)]. **NS** [Petersen (1989)]. **NW** [Moore (1977)]. **ON** [Ide (1930) as *Ephemerella aronii* Eaton, 1908; Ide (1935b)]. **PE** [adult, Queens Co., Northeast Margaree River, above Intervale, 19 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **PQ** [McDunnough (1930) as *Ephemerella aronii* Esben-Petersen [sic]; Walley (1930) as *Ephemerella aronii* Eaton, 1908;

- McDunnough (1932a)]. **SA** [Lehmkuhl (1976a)].
Ephemera dorothea Needham, 1908: **NB** [McDunnough (1931c)]. **NS** [Allen and Edmunds (1965)]. **PE** [larvae, Queens Co., Dunk River, Hwy 232, 29 June 1994, C. Goforth (CSU)]. **PQ** [McDunnough (1925a, 1925b)].
Ephemera excrucians Walsh, 1862: **NB** [McDunnough (1931a)]. **NS** [Petersen et al. (1985)]. **NW** [Wiens et al. (1975) as *Ephemera excrucians*?; Cobb and Flannagan (1980)]. **ON** [McDunnough (1925a, 1925d); McDunnough (1926b) as *Ephemera semiflava* McDunnough, 1926, type]. **PQ** [McDunnough (1931c)].
Ephemera fratercula McDunnough, 1925: **PQ** [McDunnough (1925b), type].
Ephemera inermis Eaton, 1884: **AB** [McDunnough (1925a)]. **BC** [McDunnough (1925a)]. **NW** [Cobb et al. 1995)]. **SA** [Lehmkuhl (1976a)].
Ephemera infrequens McDunnough, 1924: **AB** [McDunnough (1924b), type]. **BC** [Walley (1927)].
Ephemera invaria (Walker), 1853: **MB** [Flannagan and Flannagan (1982)]. **NB** [Allen and Edmunds (1965)]. **NF** [Newfoundland Island: tributary to Salon River, E of Ten Mile Lake, Hwy 432, 8 June 1998, B.C. Kondratieff and R.W. Baumann (CSU, PERC). Labrador: larvae, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adult, Ashuanipi River, Hwy 500, W of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adults, Raft River, Hwy 500, 34 mi N of Churchill Falls, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); larvae, West Metchin River, Hwy 500, 32 mi E of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adults, Unknown River, Twin Falls rd. 21 mi W of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Allen and Edmunds (1965)]. **NW** [Wiens et al. (1975)]. **ON** [Walker (1853) as *Baetis*, type]. **PE** [Allen and Edmunds (1965)]. **PQ** [McDunnough (1925a, 1925b)].
Ephemera mucronata (Bengtsson), 1909: **NW** [Harper and Harper (1981)]. **YU** [Harper and Harper (1981)].
Ephemera needhami McDunnough, 1925: **NB** [Allen and Edmunds (1965)]. **NS** [Allen and Edmunds (1965)]. **ON** [Walley (1927)]. **PQ** [McDunnough (1925d), type].
Ephemera quebecensis (Provancher), 1876 nomen dubium: **PQ** [Provancher (1876) as *Cloe*, type].
Ephemera rotunda Morgan, 1911: **NB** [Eidt (1975)]. **NS** [Allen and Edmunds (1965)]. **ON** [McDunnough (1926a)]. **PQ** [McDunnough (1931c)].
Ephemera septentrionalis McDunnough, 1925: **NB** [Allen and Edmunds (1965)]. **ON** [McDunnough (1925d), type]. **PQ** [McDunnough (1931c)].
Ephemera subvaria McDunnough, 1931: **NB** [Petersen (1989)]. **NF** [Newfoundland Island: Larson and Colbo (1983), Labrador: larva, Miron River, Hwy 500, E of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Petersen (1989)]. **ON** [Ide (1930) misidentified as *Ephemera invaria* (Walker), 1853; McDunnough (1931a, 1931c)]. **PQ** [McDunnough (1925a, 1925b) misidentified as *Ephemera invaria* (Walker), 1853; McDunnough (1931a), type; McDunnough (1931c)].
Euryophella aestiva (McDunnough), 1931: **NB** [Eidt (1975) as *Ephemera*]. **NS** [Petersen et al. (1985) as *Ephemera*]. **ON** [Allen and Edmunds (1963b) as *Ephemera*]. **PQ** [McDunnough (1931b) as *Ephemera*, type].
Euryophella bartoni (Allen), 1977: **ON** [Allen (1977) as *Ephemera*, type].
Euryophella bicolor (Clemens), 1913: **MB** [Neave (1934) as *Ephemera*]. **NB** [McDunnough (1931b) as *Ephemera*]. **NS** [Allen and Edmunds (1963b) as *Ephemera*]. **NW** [Cobb and

- Flannagan (1980)]. **ON** [Clemens (1913) as *Ephemera*, type]. **PQ** [McDunnough (1925a) as *Ephemera*].
Euryophella bicoloroides (McDunnough), 1938: **NS** [McDunnough (1938) as *Ephemera*, type].
Euryophella coxalis (McDunnough), 1926: **NS** [Allen and Edmunds (1963b) as *Ephemera*]. **ON** [Walley (1927) as *Ephemera*]. **PQ** [McDunnough (1926a) as *Ephemera*, type].
Euryophella enoensis Funk, 1994: **ON** [Funk and Sweeney (1994)].
Euryophella funeralis (McDunnough), 1925: **NB** [Allen and Edmunds (1963b) as *Ephemera*]. **NF** [Newfoundland Island: Larson and Colbo (1983)]. **NS** [Allen and Edmunds (1963b) as *Ephemera*]. **ON** [Walley (1927) as *Ephemera*]. **PQ** [McDunnough (1925b) as *Ephemera*, type].
Euryophella lodi (Mayo), 1952: **BC** [Allen and Edmunds (1963b) as *Ephemera*].
Euryophella luteolata (Clemens), 1913: **NB** [McDunnough (1931b) as *Ephemera*]. **ON** [Clemens (1913) as *Ephemera*]. **NS** [Clemens, 1913, type; Clemens (1913) as *Ephemera*, type]. **PQ** [McDunnough (1925a) as *Ephemera*].
Euryophella minimella (McDunnough), 1931: **NB** [Allen and Edmunds (1963b) as *Ephemera*]. **NS** [Allen and Edmunds (1963b) as *Ephemera*]. **ON** [Allen and Edmunds (1963b) as *Ephemera*]. **PQ** [McDunnough (1931b) as *Ephemera*, type].
Euryophella prudentialis (McDunnough), 1931: **NB** [Allen and Edmunds (1963b) as *Ephemera*]. **NF** [Newfoundland Island: Berner (1959) as *Ephemera*]. **NS** [Allen and Edmunds (1963b) as *Ephemera*]. **ON** [McDunnough (1931b) as *Ephemera*]. **PQ** [McDunnough (1931b) as *Ephemera*, type].
Euryophella temporalis (McDunnough), 1924: **MB** [Flannagan and Lawler (1972) as *Ephemera*]. **NB** [McDunnough (1925a) as *Ephemera*]. **NS** [Petersen et al. (1985) as *Ephemera*]. **NW** [Funk and Sweeney (1994)]. **ON** [McDunnough (1924c), as *Ephemera*, type]. **PQ** [McDunnough (1925a, 1925b) as *Ephemera*]. **SA** [Allen and Edmunds (1963b) as *Ephemera*].
Euryophella verisimilis (McDunnough), 1930: **NB** [McDunnough (1931b) as *Ephemera*]. **NS** [Allen and Edmunds (1963b) as *Ephemera*]. **ON** [McDunnough (1931b) as *Ephemera*]. **PQ** [McDunnough (1930) as *Ephemera*, type].
Serratella deficiens (Morgan), 1911: **NB** [McDunnough (1931c) as *Ephemera*]. **NF** [Labrador: larvae, Unknown River, Twin Falls rd. 21 mi W of Churchhill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [McDunnough (1931c) as *Ephemera*]. **ON** [McDunnough (1925c) as *Ephemera*]. **PQ** [McDunnough (1925a, 1925b, 1925c) as *Ephemera*]. **SA** [Allen and Edmunds (1963b) as *Ephemera*, 1925].
Serratella molita (McDunnough), 1930: **NB** [McDunnough (1931c) as *Ephemera*]. **NS** [McDunnough (1930) as *Ephemera*]. **PQ** [McDunnough (1930) as *Ephemera*, type].
Serratella serrata (Morgan), 1911: **NB** [Allen and Edmunds (1963a) as *Ephemera*]. **NS** [Petersen et al. (1985)]. **ON** [McDunnough (1925a) as *Ephemera*]. **PQ** [McDunnough (1925a) as *Ephemera*].
Serratella serratoidea (McDunnough), 1931: **NB** [Allen and Edmunds (1963a) as *Ephemera*]. **NS** [McDunnough (1931c) as *Ephemera*]. **ON** [McDunnough (1931c) as *Ephemera*]. **PQ** [McDunnough (1930) as *Ephemera*]. **SA** [Allen and Edmunds (1963a) as *Ephemera*]. **YU** [Cobb and Edmunds (1963b) as *Ephemera*].
Serratella sordida (McDunnough), 1925: **ON** [Ide (1930) as *Ephemera*]. **PQ** [McDunnough (1925c) as *Ephemera*, type].
Serratella teresa (Traver), 1934: **BC** [Filmer (1964) as *Ephemera*].

Serratella tibialis (McDunnough), 1924: **AB** [McDunnough (1924b) as *Ephemereilla*, type]. **BC** [Clemens et al. (1939) as *Ephemereilla*]. **NW** [Cobb et al. (1995)].

Timpanoga hecuba (Eaton), 1884: **AB** [McDunnough (1935) as *Ephemereilla*]. **BC** [McDunnough (1935) as *Ephemereilla*].

Timpanoga lita (Burks), 1949: **SA** [Lehmkuhl (1976a) as *Ephemereilla*].

Timpanoga simplex (McDunnough), 1925: **AB** [Barton (1980) as *Ephemereilla*]. **MB** [Allen and Edmunds (1962a) as *Ephemereilla*]. **NB** [McDunnough (1931c) as *Ephemereilla*]. **NS** [Petersen et al. (1985)]. **NW** [Cobb and Flannagan (1980) as *Ephemereilla*]. **ON** [Walley (1927) as *Ephemereilla*]. **PQ** [McDunnough (1925c) as *Ephemereilla*, type]. **SA** [Lehmkuhl (1976a) as *Ephemereilla*].

EPHEMERIDAE

Ephemera guttulata Pictet, 1843: **NB** [adults, Maguadavic River, Hwy 3, Brockway, 30 June 1995, S. Schuler (CSU)]. **NF** [Labrador: male subimago, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [adults, Hants Co., Herbert River, Hwy 4, 20 June 1994, R. Raymond (CSU)]. **ON** [McDunnough (1925)]. **PQ** [Provancher (1876) misidentified as *Ephemera simulans* Walker, 1853; Provancher (1878) as "Ephemère guttulée"].

Ephemera simulans Walker, 1853: **AB** [McDunnough (1925a)]. **BC** [McDunnough (1925a)]. **MB** [Banks (1912) as *Ephemera decora* Walker, 1853; Neave (1932)]. **NB** [adults, Charlotte Co., tributary of Digequash River, Rt. 122, 15 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Whiting (1992)]. **NW** [Wiens et al. (1975)]. **ON** [Walker (1853) as *Palingenia natata* Walker, 1853; type; Banks (1910)]. **PQ** [Walker (1853), type]. **SA** [Hagen (1863) as *Ephemera natata* (Walker), 1853; Lehmkuhl (1976a)].

Ephemera varia Eaton, 1883: **NS** [adult, Hants Co., Herbert River, Hwy 4, 20 June 1994, R. Raymond (CSU)]. **ON** [Griffiths (1996)]. **PQ** [McDunnough (1925a, 1925b)].

Hexagenia atrocaudata McDunnough, 1924: **ON** [McDunnough (1924a), type].

Hexagenia bilineata (Say), 1824: **MB** [Hagen (1863) as *Palingenia*]. **ON** [Banks (1910)]. **PQ** [Provancher (1876) misidentified as *Palingenia limbata* (Serville), 1829; Provancher (1878) as *Palingenia*].

Hexagenia limbata (Serville), 1829: **AB** [Clifford (1969)]. **BC** [McDunnough (1925a)]. **MB** [Hagen (1861) as *Palingenia occulta* Walker, 1853; McDunnough (1925a)]. **NB** [Spieth (1941)]. **NW** [Harper and Harper (1981)]. **ON** [Walker (1853) as *Palingenia occulta* Walker, 1853, type; Walker (1853) as *Palingenia viridescens* Walker, 1853, type; Hagen (1861) as *Palingenia*; McDunnough (1927a) as *Hexagenia affilitata* McDunnough, 1927, type; Spieth (1941) as *Hexagenia munda* Eaton, 1883]. **PQ** [McDunnough (1925a); McDunnough (1927a) as *Hexagenia occulta* (Walker), 1853; Spieth (1941) as *Hexagenia munda* Eaton, 1883]. **SA** [Spieth (1941)].

Hexagenia rigida McDunnough, 1924: **MB** [McDunnough (1924a)]. **NB** [Spieth (1941)]. **NS** [adult, Hants Co., Herbert River, Hwy 4, 20 June 1994, R. Raymond (CSU)]. **ON** [McDunnough (1924a), type]. **PQ** [McDunnough (1924a)].

Litobrancha recurva (Morgan), 1913: **NF** [Labrador: larvae, Route 530 S of Labrador City, overflow of Walsh River, 11 June 1997, B.C. Kondratieff and R.W. Baumann (PERC)]. **ON** [Spieth (1941) as *Hexagenia*]. **PQ** [Walley (1927) as *Hexagenia*].

Pentagenia vittigera (Walsh), 1862: **MB** [McDunnough (1925a)]. **ON** [Griffiths (1996) as unspecified species of *Pentagenia* from Thunder Bay].

HEPTAGENIIDAE

Acanthiomola pubescens Whiting & Lehmkuhl, 1987: **AB** [Whiting and Lehmkuhl (1987b)]. **SA** [Whiting and Lehmkuhl (1987b), type].

Anepeorus rusticus McDunnough, 1925: **SA** [McDunnough (1925d), type].

Anepeorus simplex (Walsh), 1963: **ON** [Griffiths (1996) as unspecified species of *Anepeorus*].

Cinygma integrum Eaton, 1885: **BC** [McDunnough (1926b)].

Cinygma lyriforme (McDunnough), 1924: **AB** [McDunnough (1924b) as *Ecdyonurus*, type].

Cinygmula confusa (McDunnough), 1924: **AB** [McDunnough (1924a) as *Cinygma*, type].

Cinygmula gartrelli McDunnough, 1934: **BC** [McDunnough (1934), type].

Cinygmula kootenai McDunnough, 1943: **BC** [McDunnough (1943), type].

Cinygmula mimus (Eaton), 1885: **AB** [McDunnough (1924a) as *Cinygma*]. **BC** [Walley (1927) as *Cinygma*]. **SA** [Whiting and Sheard (1990)]. **YU** [Harper and Harper (1997)].

Cinygmula par (Eaton), 1885: **AB** [McDunnough (1924a) as *Cinygma hyalina* McDunnough, 1924, type]. **BC** [Walley (1927) as *Cinygma hyalina* McDunnough, 1924; Scudder (1975)]. **YU** [Harper and Harper (1997)].

Cinygmula ramaleyi (Dodds), 1923: **AB** [McDunnough (1924a) as *Cinygma*; Neave (1929) as *Iron tollandi* Dodds, 1923]. **BC** [Walley (1927) as *Cinygma*]. **YU** [Harper and Harper (1997)].

Cinygmula subaequalis (Banks), 1914: **NB** [Whiting (1992)]. **NS** [McDunnough (1924a) as *Cinygma atlantica* McDunnough, 1924, type; Whiting (1992)]. **PE** [adults, Queens Co., Dund River, Hwy 232, 29 June 1994, C. Goforth (CSU)]. **PQ** [Dulude (1992)].

Cinygmula tarda (McDunnough), 1929: **AB** [McDunnough (1929) as *Cinygma*, type]. **NW** [Cobb and Flannagan (1980) as *Cinygmula cf. tarda*].

Cinygmula uniformis McDunnough, 1934: **BC** [McDunnough (1934), type]. **YU** [adults, Yukon - Alaska Hwy M P 632, 28 June 1952 (PERC)].

Epeorus albertae (McDunnough), 1924: **AB** [McDunnough (1924a) as *Iron*, type]. **BC** [Wigle and Thomassen (1990)]. **MB** [Flannagan et al. (1990)]. **ON** [larvae, North Madawaska River, Algonquin Park, 11 July 1955, B.V. Petersen (PERC)].

Epeorus deceptivus (McDunnough), 1924: **AB** [McDunnough (1924a) as *Cinygma*, type]. **BC** [McDunnough (1926b) as *Iron*]. **NW** [Moore (1977)].

Epeorus dulciana (McDunnough), 1935: **BC** [McDunnough (1935) as *Iron*, type].

Epeorus fragilis (Morgan), 1911: **NS** [McDunnough (1925a) as *Iron*]. **PQ** [McDunnough (1933a) as *Iron gracilis* (sic) Morgan, 1911; Dulude (1992) as *Iron*].

Epeorus grandis McDunnough, 1924: **AB** [McDunnough (1924a) as *Iron*, type]. **BC** [McDunnough (1925a) as *Iron*]. **NW** [Cobb et al. (1995)]. **YU** [Harper and Harper (1997)].

Epeorus longimanus (Eaton), 1885: **AB** [McDunnough (1924a) as *Iron*]. **BC** [McDunnough (1925a) as *Iron*]. **NW** [Cobb et al. (1995)]. **SA** [Lehmkuhl (1976a)]. **YU** [Harper and Harper (1997)].

Epeorus permagnus (Traver), 1935: **BC** [Filmer (1964)].

Epeorus pleuralis (Banks), 1910: **NB** [Walley (1927) as *Iron*]. **NF** [Newfoundland Island, Berner (1959) as *Epeorus* sp.; Dance (1979). Labrador: adults, stream entering Moosehead Lake, Hwy 500, E of Labrador City, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)].

- adult, Ahuanipi River, Hwy 500, W of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adults, West Metchin River, Hwy 500, 32 mi E of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); larva, Trout Brook, Hwy 510 N of Pinware, 6 June 1998, B.C. Kondratieff and R.W. Baumann (CSU). NS [Whiting (1992)]. ON [Ide (1930) as *Iron*]. PE [adult, Queens Co., Dunk River, Hwy 232, 18 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]; adult, Kings Co., Morell River, Hwy 320, 20 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. PQ [McDunnough (1925a, 1925b) as *Iron*; Vincent (1985) as *Iron fraudator* Traver, 1935].
- Epeorus punctatus* (McDunnough), 1925: ON [McDunnough (1925d) as *Iron*, type]. PQ [McDunnough (1925d) as *Iron*].
- Epeorus suffusus* (McDunnough), 1925: ON [Walley (1927) as *Iron*]. PQ [McDunnough (1925d) as *Iron*, type].
- Epeorus vitreus* (Walker), 1853: MB [Friesen et al. (1980)]. NB [Petersen and Martin-Robichaud (1986)]. NS [Petersen (1989)]. ON [Walker (1853) as *Palingenia*, type; McDunnough (1924a) as *Iron humeralis* (Morgan), 1911]. PQ [McDunnough (1925a, 1925b, 1925d) as *Iron humeralis* (Morgan), 1911; Harper and Harper (1981)].
- Heptagenia adaequata* McDunnough, 1924: AB [McDunnough (1924a), type]. SA [McDunnough (1925a)].
- Heptagenia diabasica* Burks, 1946: ON [larvae, Madawaska River, Algonquin Park, 8 July 1966, R. and D. Koss (PERC)]. PQ [Koss (1970)]. SA [Whiting and Sheard (1990)].
- Heptagenia elegantula* (Eaton), 1885: BC [McDunnough (1925a)]. MB [McDunnough (1924a) as *Heptagenia querula* McDunnough, 1924, type; McDunnough (1925a)]. SA [Walley (1927)].
- Heptagenia flavescens* (Walsh), 1862: BC [Banks (1912)]. MB [McDunnough (1924a)]. NW [Wiens et al. (1975)]. ON [Barton and Hynes (1978)]. SA [Lehmkuhl (1976a)].
- Heptagenia manifestata* (Eaton), 1885 nomen dubium: PQ [Walley (1927)].
- Heptagenia marginalis* Banks, 1910: ON [McDunnough (1925a)]. PQ [McDunnough (1925a)].
- Heptagenia pulla* (Clemens), 1913: MB [Neave (1934)]. NB [adult, Miramichi, 3-5 May 1962, B.V. Petersen (PERC)]. NF [Newfoundland Island: Larson and Colbo (1983)]. NS [Whiting (1992)]. NW [Wiens et al. (1975); Moore (1977) as *Heptagenia julia* Traver, 1933]. ON [Clemens (1913) as *Ecdyonurus grandis* sp. nov. (nomen nudum); Clemens (1913) as *Ecdyonurus*, type]. PQ [McDunnough (1925a, 1925b)]. SA [Lehmkuhl (1976a)]. YU [Harper and Harper (1981)].
- Heptagenia solitaria* McDunnough, 1924: AB [McDunnough (1924a), type]. BC [McDunnough (1925a)]. SA [Lehmkuhl (1976a)].
- Ironodes arcticus* Traver, 1935: BC [Edmunds et al. (1976) - no data].
- Ironodes flavipennis* Traver, 1935: BC [Traver (1935b), type].
- Ironodes nitidus* (Eaton), 1885: BC [Wigle and Thommasen (1990) as *Epeorus*].
- Leurocrotia aphrodite* (McDunnough), 1926: MB [Flanagan and Flanagan (1982) as *Heptagenia*. ON [Walley (1927) as *Heptagenia*]. PQ [McDunnough (1926a) as *Heptagenia*, type].
- Leurocrotia hebe* (McDunnough), 1924: MB [McDunnough (1925a) as *Heptagenia*. NB [Petersen (1989) as *Heptagenia*. NS [Petersen (1989) as *Heptagenia*. NW [Cobb and Flanagan (1980) as *Heptagenia*. ON [McDunnough (1924a) as *Heptagenia*. PQ [McDunnough (1924a) as *Heptagenia*, type]. SA [Lehmkuhl (1976a) as *Heptagenia*. Leurocrotia Jewetti (Allen), 1966: MB [Friesen et al. (1980) as *Heptagenia*.

- Leurocrotia juno* (McDunnough), 1924: ON [Barton and Hynes (1978) as *Heptagenia*. PQ [McDunnough (1924a) as *Heptagenia*, type].
- Leurocrotia maculipennis* (Walsh) 1863: MB [McDunnough (1924a) as *Heptagenia*. NW [Cobb and Flanagan (1980) as *Heptagenia*. ON [Clemens (1913) as *Ecdyonurus*. Leurocrotia *minerva* (McDunnough), 1924: ON [McDunnough (1924a) as *Heptagenia*. PQ [McDunnough (1924a) as *Heptagenia*, type].
- Leurocrotia umbratica* (McDunnough), 1931: MB [Flanagan and Flanagan (1982) as *Heptagenia*. PQ [McDunnough (1931a) as *Heptagenia*, type].
- Leurocrotia walshi* (McDunnough), 1926: ON [McDunnough (1926a) as *Heptagenia*, type]. PQ [Dulude (1992)].
- Macdunnoo nipawinia* Lehmkuhl, 1979: SA [Lehmkuhl (1979), type].
- Nixe criddlei* (McDunnough), 1927: AB [McDunnough (1927b) as *Heptagenia*. *Nixe horrida* (McDunnough), 1926: ON [McDunnough (1926b) as *Heptagenia*, type]. *Nixe inconspicua* (McDunnough), 1924: MB [McDunnough (1924a) as *Heptagenia*, type]. ON [Walley (1927)]. PQ [Walley (1927)]. SA [Whiting and Sheard (1990)].
- Nixe lucidipennis* (Clemens), 1913: ON [Clemens (1913) as *Ecdyonurus*, type]. PQ [McDunnough (1925a) as *Heptagenia*. SA [Whiting and Sheard (1990)].
- Nixe perfida* (McDunnough), 1926: ON [McDunnough (1926b) as *Heptagenia*, type]. *Nixe rusticalis* (McDunnough), 1931: PQ [McDunnough (1931a) as *Heptagenia*, type]. SA [Whiting and Sheard (1990)].
- Nixe simplicioides* (McDunnough), 1924: AB [McDunnough (1924a) as *Heptagenia*, type]. BC [Scudder (1975) as *Heptagenia*. MB [Cobb et al. (1991)].
- Raptoheptagenia cruentata* (Walsh), 1863: MB [McDunnough (1924a) as *Heptagenia reversalis* McDunnough, 1924, type]. SA [Whiting and Lehmkuhl (1987a)].
- Rhithrogena amica* Traver, 1935: PQ [Dulude (1992)].
- Rhithrogena anomala* McDunnough, 1928: PQ [McDunnough (1928b), type].
- Rhithrogena brunneotincta* McDunnough, 1933: PQ [McDunnough (1933c), type].
- Rhithrogena futilis* McDunnough, 1934: AB [McDunnough (1926a) as *Rhithrogena doddsi* McDunnough, 1926, type; McDunnough (1934)]. YU [Harper and Harper (1981)].
- Rhithrogena gaspensis* McDunnough, 1933: PQ [McDunnough (1933c), type].
- Rhithrogena hageni* Eaton, 1885: AB [McDunnough (1926a) as *Rhithrogena doddsi* McDunnough, 1926, type; McDunnough (1928a) as *Rhithrogena brunnea* Hagen, 1875]. BC [Scudder (1975)].
- Rhithrogena impersonata* (McDunnough), 1925: NB [Whiting (1992)]. NS [Whiting (1992)]. ON [Ide (1954); Ide (1954) as *Rhithrogena sanguinea* Ide, 1954, type]. PQ [McDunnough (1925d) as *Heptagenia*, type].
- Rhithrogena jejuna* Eaton, 1885: AB [McDunnough (1925a) as *Heptagenia*. BC [Walley (1927)]. NB [Whiting (1992)]. NF [Labrador: Harper and Harper (1981)]. NS [Whiting (1992)]. NW [McDunnough (1925a) as *Heptagenia*. ON [Walker (1853) as *Baetis fusca* Walker, 1853, type of *R. jejuna*. PQ [Harper et al. (1975)]. SA [Walley (1927)].
- Rhithrogena morrisoni* (Banks), 1924: AB [McDunnough (1934)]. BC [Scudder (1975)].
- Rhithrogena pellucida* Daggy, 1945: MB [Friesen et al. (1980)]. ON [larvae, Missinaibi River, Station 6-1, 21 July 1996, R.W. Griffiths (PERC, RWG)].
- Rhithrogena robusta* Dodds, 1923: AB [McDunnough (1929)]. BC [Scudder (1975)].

- Rhithrogena undulata* (Banks), 1924: **NF** [Newfoundland Island: Dance (1979)]. **NW** [Wiens et al. (1975)]. **SA** [Whiting and Sheard (1990)]. **YU** [Harper and Harper (1997)].
Rhithrogena virilis McDunnough, 1934: **AB** [McDunnough (1928a) as *Rhithrogena brunnea* (Hagen), 1875; Clifford et al. (1973)]. **BC** [McDunnough (1934), type].
- Stenacron candidum* (Traver), 1935: **ON** [Flannagan and Cobb (1995)]. **PQ** [Dulude (1992)].
Stenacron carolina (Banks), 1914: **ON** [Sprules (1947)]. **PQ** [McDunnough (1925a, 1925b) as *Echyronurus*].
- Stenacron gilderleevei* (Traver), 1935: **MB** [adults, Winnipeg River, Hwy 44, 8 July 1979, G.F. Edmunds (PERC)].
- Stenacron interpunctatum* (Say), 1839: **AB** [Barton (1980)]; Hamilton and Clifford (1983) as *Stenacron canadensis* (Walker), 1853. **MB** [Banks (1912) as *Heptagenia canadensis* (Walker), 1853; McDunnough (1925a) as *Echyronurus*]. **NB** [Lewis (1974) as *Stenonema*]. **NF** [Labrador: adults and larvae, Raft River, West of Churchill Falls, Rt 5000, 2 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Petersen et al. (1987)]. **ON** [Say (1839) as *Baetis*, type; Walker (1853) as *Baetis canadensis* Walker, 1853, type; Clemens (1913) as *Heptagenia frontalis* Banks, 1910; McDunnough (1933a) as *Echyronurus heterotarsalis* McDunnough, 1933]. **PE** [larvae, Queens Co., Dunk River, Hwy 232, 29 June 1994, C. Goforth (CSU)]. **PQ** [Clemens and Leonard (1924) as *Heptagenia*; McDunnough (1925a) as *Echyronurus frontalis* (Banks), 1910; McDunnough (1925a, 1925b) as *Echyronurus canadensis* (Walker), 1853; McDunnough (1933a) as *Echyronurus heterotarsalis* McDunnough, 1933, type; Traver (1935a) as *Stenonema*]. **SA** [Lehmkuhl (1976a)].
- Stenonema exiguum* Traver, 1933: **ON** [Daggy (1945)].
Stenonema femoratum (Say), 1823: **MB** [Neave (1934) as *Stenonema tripunctatum* (Banks), 1920; Bednarik and McCafferty (1979)]. **NB** [Whiting (1992)]. **NF** [Newfoundland Island: Bednarik and McCafferty (1979)]. **NS** [Petersen et al. (1985)]. **NW** [Moore (1977) as *Stenonema tripunctatum* (Banks), 1910]. **ON** [Clemens (1913) as *Heptagenia tripunctata* Banks, 1910; Bednarik and McCafferty (1979)]. **PQ** [Provancher (1876) as *Baetis*; McDunnough (1925a) as *Echyronurus tripunctatus* (Banks), 1910]. **SA** [Oliver (1960) as *Stenonema tripunctatum* (Banks), 1910; Whiting and Sheard (1990)].
- Stenonema flaveolum* (Pictet), 1843 nomen dubium: **ON** [Hagen (1861) as *Baetis*].
Stenonema ithaca (Clemens & Leonard), 1924: **ON** [Ide (1930) as *Echyronurus*]. **PQ** [McDunnough (1933) as *Echyronurus*].
- Stenonema luteum* (Clemens), 1913: **NB** [Petersen (1989)]. **NS** [Petersen et al. (1985)].
ON [Clemens (1913) as *Heptagenia*, type]. **PQ** [McDunnough (1925a) as *Echyronurus*].
Stenonema mediopunctatum (McDunnough), 1926: **MB** [Friesen et al. (1980) as *Stenonema nepotellum* (McDunnough), 1933; Gyselman (1980) as *Stenonema nepotellum* (McDunnough), 1933; Flannagan and Flannagan (1982)]. **NB** [Petersen and Martin-Robichaud (1986)].
ON [Banks (1910) as *Heptagenia terminata* (Walsh), 1862; McDunnough (1926a) as *Echyronurus*, type; McDunnough (1933a) as *Echyronurus nepotellus* McDunnough, 1933].
PQ [McDunnough (1933a) as *Echyronurus nepotellus* McDunnough, 1933, type; Bednarik and McCafferty (1979)].
- Stenonema mexicanum* (Ulmer), 1920: **MB** [Friesen et al. (1980) as *Stenonema cf. integrum* (McDunnough), 1924]. **ON** [Walley (1927) as *Echyronurus integer* (McDunnough), 1924].
PQ [Walley (1927) as *Echyronurus integer* (McDunnough), 1924].
- Stenonema modestum* (Banks), 1910: **NB** [McDunnough (1933a) as *Echyronurus rubromaculatus* (Clemens), 1913; Petersen and Martin-Robichaud (1986)]. **NS** [McDunnough (1933a) as

- Echyronurus rubromaculatus* (Clemens), 1913; Petersen et al. (1987)]. **ON** [Clemens (1913) misidentified as *Heptagenia flavescens* (Walsh), 1862; Clemens (1913) as *Heptagenia rubromaculata* Clemens, 1913, type; Walley (1927) as *Echyronurus ruber* McDunnough, 1926; Bednarik and McCafferty (1979)]. **PQ** [McDunnough (1925a) as *Echyronurus rubromaculatus* (Clemens), 1913; McDunnough (1926a) as *Echyronurus ruber* McDunnough, 1926, type; Bednarik and McCafferty (1979)].
- Stenonema pulchellum* (Walsh), 1862: **ON** [Hagen (1861) misidentified as *Heptagenia luridipennis* (Burmeister), 1839; Walley (1927) as *Echyronurus*]. **PQ** [Eaton (1871) misidentified as *Heptagenia luridipennis* (Burmeister), 1839].
- Stenonema terminatum* (Walsh), 1862: **AB** [Walley (1927) as *Echyronurus*]. **BC** [Lewis (1974)].
MB [McDunnough (1925a) as *Echyronurus*; Lewis (1974) as *Stenonema bipunctatum* (McDunnough), 1926]. **NF** [Labrador: larvae, Raft River, W of Churchill Falls, Rt 500, 2 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [adults, Hants Co., Nine Mile River, Hwy 14, 23 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **ON** [McDunnough (1926a) as *Echyronurus bipunctatus* McDunnough, 1926, type; McDunnough (1926a) as *Echyronurus placita* (Banks), 1910; Bednarik and McCafferty (1979)]. **PE** [larvae, Queens Co., Dunk River, Hwy 232, 29 June 1994, C. Goforth (CSU)]. **PQ** [Provancher (1876) misidentified as *Baetis interpunctatum* Say, 1839; Provancher (1878) as *Heptagenia*; McDunnough (1926a) as *Echyronurus placita* (Banks), 1910; Harper and Harper (1989a, 1989b)].
Stenonema bipunctatum (McDunnough), 1926: **SA** [Doddall and Lehmkuhl (1989a, 1989b)].
Stenonema vicarium (Walker), 1853: **AB** [Barton (1980)]. **MB** [Bednarik and McCafferty (1979)].
NB [McDunnough (1933a) as *Echyronurus fuscus* (Clemens), 1913; Walley (1927) as *Echyronurus*]. **NF** [Newfoundland Island: Larson and Colbo (1983). Labrador: larvae and adults, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adult, Rapid Brook, Hwy 500 E of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adult, Unknown River, Twin Falls rd. 21 mi W of Churchill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Walker (1853) as *Baetis tessellata* Walker, 1853, type; Bednarik and McCafferty (1979)]. **NW** [Cobb and Flannagan (1980)]. **ON** [Clemens (1913) as *Heptagenia fusca* Clemens, 1913, type; Walley (1927) as *Echyronurus*; McDunnough (1933a) as *Echyronurus rivulicolus* McDunnough, 1933].
PE [adults, Queens Co., Dunk River, Hwy 232, 29 June 1994, C. Goforth (CSU)]. **PQ** [Eaton (1871) as *Heptagenia*; McDunnough (1925a, 1925b) as *Echyronurus fuscus* (Clemens), 1913; McDunnough (1933a) as *Echyronurus rivulicolus* McDunnough, 1933, type]. **SA** [Lehmkuhl (1976a)].

ISONYCHIIDAE

- Isonychia bicolor* (Walker), 1853: **MB** [Friesen et al. (1980); Friesen et al. (1980) as *Isonychia harperi* Traver, 1934]. **NB** [adults, Magaguadavic River, Hwy 3, Brockway, 30 June 1995, S. Schuler (CSU)]. **NF** [Labrador: all adults, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); Miron River, Hwy 500 E of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); Raft River, Hwy 500, 34 mi N of Churchill Falls, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)].
NS [larvae, Lunenburg Co., Gold River at New Ross, 23 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **ON** [Walker (1853) as *Palingenia*, type; Clemens (1913) as *Chironetes althomanicatus* (Needham), 1905; Traver (1935a) as *Isonychia christina* Traver, 1934]. **PQ** [McDunnough (1925a); Traver (1935a) as *Isonychia christina* Traver, 1934].

Isonychia campestris McDunnough, 1931: **AB** [McDunnough (1931d) as *Isonychia sicca campestris* McDunnough, 1931, type]. **MB** [McDunnough (1931d) as *Isonychia sicca campestris* McDunnough, 1931]. **SA** [McDunnough (1931d) as *Isonychia sicca campestris* McDunnough, 1931; Kondratieff and Voshell (1984)].
Isonychia rufa McDunnough, 1931: **MB** [Friesen et al. (1980)].
Isonychia sicca (Walsh), 1862: **MB** [McDunnough (1925a)]. **ON** [Ide (1930)].

LEPTOHPHYIDAE

Tricorythodes allectus (Needham), 1905: **MB** [Friesen et al. (1980)]. **NB** [Petersen and Martin-Robichaud (1986) as *Tricorythodes atratus* (McDunnough), 1923]. **NF** [Newfoundland Island: Berner (1959) as *Tricorythodes atratus* (McDunnough), 1923]. **ON** [Clemens (1913) as *Tricorythodes*; Ide (1935b) as *Tricorythodes atratus* (McDunnough), 1923]. **PQ** [McDunnough (1923) as *Tricorythodes atratus* McDunnough, 1923, type].
Tricorythodes cobbii Alba-Tercedor and Flannagan, 1995: **MB** [Alba-Tercedor and Flannagan (1995), type].
Tricorythodes minutus Traver, 1935: **AB** [McDunnough (1931e) as *Tricorythodes explicatus* (Eaton), 1892; Clifford et al. (1973)]. **BC** [McDunnough (1939) as *Tricorythodes fallax* McDunnough, 1939, type; Scudder (1975)]. **ON** [McDunnough (1931e) as *Tricorythodes explicatus* (Eaton), 1892; Traver (1935a) as *Tricorythodes fallax* Traver, 1935]. **PQ** [McDunnough (1931e) as *Tricorythodes explicatus* (Eaton), 1892; Traver (1935a) as *Tricorythodes fallax* Traver, 1935; Duliude (1992)]. **SA** [McDunnough (1931e) as *Tricorythodes explicatus* (Eaton), 1892; Traver (1935a) as *Tricorythodes fallax* Traver, 1935; Dossall and Lehmkühl (1989a, 1989b)].
Tricorythodes mosegus Alba-Tercedor and Flannagan, 1995: **MB** [Alba-Tercedor and Flannagan (1995), type].
Tricorythodes stygiatus McDunnough, 1931: **PQ** [McDunnough (1931e), type].

LEPTOPHLEBIIDAE

Choroierpes albannulata McDunnough, 1924: **AB** [McDunnough (1924b), type]. **SA** [Lehmkühl (1976a)].
Choroierpes basalis (Banks), 1900: **ON** [Clemens (1913); Spieth (1938) as *Choroierpes fusca* Spieth, 1938, type]. **PQ** [Banks (1900) as *Leptophlebia*, type].
Habrophlebia vibrans Needham, 1907: **NB** [Petersen (1989)]. **NF** [Newfoundland Island: Larson and Colbo (1983)]. **NS** [Petersen et al. (1987)]. **ON** [McDunnough (1925a, 1925b)]. **PQ** [McDunnough (1925a)].
Habrophlebiodes americana (Banks), 1903: **NB** [Petersen (1989)]. **ON** [Walley (1927)]. **PQ** [McDunnough (1925a, 1925b)].

Leptophlebia cupida (Say), 1823: **AB** [McDunnough (1925a) as *Blasturus*]. **BC** [McDunnough (1925a) as *Leptophlebia pallipes* (Walker), 1853; Clemens et al. (1939) as *Blasturus*]. **MB** [McDunnough (1925a) as *Blasturus*]. **NB** [Whiting (1992)]. **NF** [Newfoundland Island: Walker (1853) as *Ephemera hebes* Walker, 1853, type; Hagen (1861) as *Baetis ignava* Hagen, 1861, type; Berner (1959). Labrador: adults, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adult, stream entering Moosehead lake, Hwy 500, E of Labrador City, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU);

adult, Miron River, Hwy 500, E of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adults, Raft River, Hwy 500, 34 mi N of Churchhill Falls, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adults, West Mechin River, Hwy, 500, 32 mi E of Churchhill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adult, Unknown River, Twin Falls rd, 21 mi W of Churchhill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Walker (1853) as *Palingenia concinna* Walker, 1853, type; Walker (1853) as *Palingenia pallipes* Walker, 1853, type; Eaton (1871)]. **ON** [Clemens (1913) as *Blasturus*]. **PE** [adults, Prince Co., tributary to Grand River, Hwy 177, S of Wellington, 18 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **PQ** [McDunnough (1925a, 1925b) as *Blasturus*]. **SA** [Hagen (1863) as *Potamanthus*].
Leptophlebia gravastella (Eaton), 1884: **BC** [McDunnough (1925a) as *Blasturus*].
Leptophlebia johnsoni McDunnough, 1924: **ON** [Walley (1927)]. **PQ** [McDunnough (1925a, 1925b)].

Leptophlebia nebulosa (Walker), 1853: **AB** [McDunnough (1925a) as *Blasturus*]. **BC** [McDunnough (1925a) as *Blasturus*]. **MB** [Neave (1934)]. **NB** [McDunnough (1925a) as *Blasturus*]. **NS** [adult, Colchester Co., Bailey's Brook, Rt 256 W of Falls, 3 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **NW** [Wiens et al. (1975)]. **ON** [Walker (1853) as *Palingenia*, type]. **PQ** [McDunnough (1925a) as *Blasturus*]. **SA** [Hagen (1863) as *Potamanthus*]. **YU** [Harper and Harper (1981)].

Paralectophlebia adoptiva (McDunnough), 1929: **NB** [Whiting (1992)]. **NF** [Newfoundland Island: Larson and Colbo (1983)]. **NS** [Whiting (1992)]. **ON** [Ide (1930) as *Leptophlebia*]. **PQ** [McDunnough (1929) as *Leptophlebia*, type]. **SA** [Lehmkühl (1976a)].

Paralectophlebia bicornuta (McDunnough), 1926: **AB** [McDunnough (1926b) as *Leptophlebia*, type]. **BC** [McDunnough (1926b) as *Leptophlebia*].

Paralectophlebia brunneipennis (McDunnough), 1924: **BC** [McDunnough (1924b) as *Leptophlebia*]. *Paralectophlebia debilis* (Walker), 1853: **AB** [McDunnough (1928a) as *Leptophlebia*]. **BC** [Walley (1927) as *Leptophlebia*]. **MB** [McDunnough (1925a) as *Leptophlebia*]. **NB** [larvae, Miramichi River, 2 September 1950, E.L. Bousefield (PERC)]. **NF** [Newfoundland Island: Larson and Colbo (1983)]. **NS** [Walker (1853) as *Baetis*, type]. **ON** [Walley (1927) as *Leptophlebia*]. **PQ** [McDunnough (1925a, 1925d) as *Leptophlebia*]. **SA** [Lehmkühl (1976a)]. **YU** [Harper and Harper (1997)].

Paralectophlebia gregalis (Eaton), 1884: **BC** [McDunnough (1926b) as *Leptophlebia invalida* McDunnough, 1926, type; Walley (1927)].

Paralectophlebia guttata (McDunnough), 1924: **NB** [Harper and Harper (1986)]. **NS** [Harper and Harper (1986)]. **NW** [Moore (1977)]. **ON** [Walley (1927) as *Leptophlebia*]. **PQ** [McDunnough (1924a), as *Leptophlebia*, type].

Paralectophlebia heteronea (McDunnough), 1924: **AB** [McDunnough (1924a) as *Leptophlebia*, type]. **BC** [McDunnough (1925a) as *Leptophlebia*].

Paralectophlebia memorialis (Eaton), 1884: **AB** [McDunnough (1928a) as *Leptophlebia pallipes* Hagen, 1875]. **BC** [McDunnough (1924a) as *Leptophlebia pallipes* Hagen, 1875].

Paralectophlebia moerens (McDunnough), 1924: **NS** [Harper and Harper (1981)]. **ON** [Walley (1927) as *Leptophlebia*]. **PQ** [McDunnough (1924a) as *Leptophlebia*, type]. **SA** [Lehmkühl (1976a)]. **YU** [Harper and Harper (1981)].

Paralectophlebia mollis (Eaton), 1871: **MB** [Friesen et al. (1980)]. **NB** [Petersen (1989)]. **NF** [Labrador: Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adults, Ashuanipi River, Hwy 500, W of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU); adults, Rapid Brook, Hwy 500, E of

- Churchhill Falls, 13 June 1997, B.C. Kondratieff and R. W. Baumann (CSU)]. **NS** [Petersen et al. (1987)]. **ON** [McDunnough (1924a) as *Leptophlebia*]. **PE** [larvae and adults, Prince Co., Miminegash River, Hwy 151, 19 June 1993, B.C. Kondratieff and R. W. Baumann (CSU); adults, Kings Co., Morell River, Hwy 320, 20 June 1993, B.C. Kondratieff and R. W. Baumann (CSU)]. **PQ** [McDunnough (1924a) as *Leptophlebia*].
- Paraleptophlebia ontario* (McDunnough), 1926: **NB** [adult, Nepisiquit River, Hwy 360, 12 June 1992, M. Menet (CSU)]. **ON** [McDunnough (1926b) as *Leptophlebia*, type]. **PQ** [Harper and Harper (1982)].
- Paraleptophlebia praepedita* (Eaton), 1884: **AB** [Clifford and Boerger (1974)]. **MB** [McDunnough (1925a) as *Leptophlebia*]. **ON** [Clemens (1915) as *Leptophlebia*]. **PQ** [McDunnough (1925a, 1925b) as *Leptophlebia*]. **SA** [Lehmkuhl (1976a)].
- Paraleptophlebia rufivenosa* (Eaton), 1884: **BC** [McDunnough (1924b) as *Leptophlebia*].
- Paraleptophlebia strigula* (McDunnough), 1932: **NS** [Whiting (1992)]. **ON** [McDunnough (1932b) as *Leptophlebia*, type]. **PQ** [Dulude (1992)].
- Paraleptophlebia temporalis* (McDunnough), 1926: **AB** [Harper and Harper (1986)]. **BC** [McDunnough (1926b) as *Leptophlebia*, type].
- Paraleptophlebia vacua* (Eaton), 1884: **BC** [Scudder (1975)].
- Paraleptophlebia voltans* (McDunnough), 1924: **NS** [Petersen et al. (1987)]. **ON** [McDunnough (1924a) as *Leptophlebia*]. **PQ** [McDunnough (1924a) as *Leptophlebia*, type].
- Traverella albertana* (McDunnough), 1931: **AB** [McDunnough (1931a) as *Thraulius*, type]. **SA** [McDunnough (1931a) as *Thraulius*].

METREPODIDAE

- Metretopus borealis* (Eaton), 1871: **AB** [McDunnough (1925a, 1925d) as *Metretopus norvegicus* Eaton, 1901; Berner (1978)]. **BC** [Edmunds (1957)]. **MB** [Edmunds (1957)]. **NB** [Berner (1978)]. **NW** [Wiens et al. (1975) as *Metretopus* sp.; Cobb and Flannagan (1980)]. **PQ** [Harper et al. (1975)]. **SA** [Lehmkuhl (1976a)]. **YU** [Harper and Harper (1981)].
- Siphloplecton basale* (Walker), 1853: **AB** [Clifford and Boerger (1974)]. **MB** [Walker (1853) as *Baetis*, type]. **NB** [McDunnough (1925a)]. **NF** [Labrador: adult, Walsh River, SW of Labrador City, Hwy 530, 11 June 1997, B.C. Kondratieff and R. W. Baumann (CSU); adult, Raft River, Hwy 500, 34 mi N of Churchhill Falls, 12 June 1997, B.C. Kondratieff and R. W. Baumann (CSU)]. **ON** [Clemens (1913) as *Siphilurus flexus* Clemens, 1913, type; McDunnough (1925a)]. **PQ** [McDunnough (1925a)].
- Siphloplecton interlineatum* (Walsh), 1863: **AB** [Clifford and Boerger (1974)]. **MB** [McDunnough (1924a)]. **NW** [Wiens et al. (1975)]. **SA** [Lehmkuhl (1976a)].

NEOEPHEMERIDAE

- Neoephemera bicolor* McDunnough, 1925: **ON** [Walley (1927)]. **PQ** [McDunnough (1925d), type].

OLIGONEURIDAE

- Lachlania saskatchewanensis* Ide, 1941: **SA** [Ide (1941), type].

POLYMITARCYIDAE

- Ephoron album* (Say), 1824: **MB** [Say (1824) as *Baetis*, type]. **ON** [Barton and Hynes (1978)]. **SA** [Lehmkuhl (1976a)].
- Ephoron leukon* Williamson, 1802: **MB** [Gyselman (1980) misidentified as *Ephoron album* (Say), 1824]. **ON** [McDunnough (1926a)]. **PQ** [McDunnough (1926a)].

- Tortopus primus* (McDunnough), 1924: **MB** [Ide (1941) as *Campsurus manitobensis* Ide, 1941, type]. **SA** [Lehmkuhl (1976a)].

POTAMANTHIDAE

- Anthopotamus distinctus* (Traver), 1935: **NB** [Whiting (1992)]. **PQ** [Dulude (1992) as *Potamanthus*].
- Anthopotamus myops* (Walsh), 1863: **MB** [Bae and McCaffery (1991)]. **ON** [Ide (1935a) as *Potamanthus rufous* Argo, 1927; Bae and McCaffery (1991)].
- Anthopotamus verticis* (Say), 1839: **ON** [Eaton (1885) as *Ecchyurus*; McDunnough (1925a) as *Potamanthus diaphanus* Needham, 1907; Ide (1935a) as *Potamanthus flaveola* (Walsh), 1862; Ide (1935a) as *Potamanthus walkeri* Ide, 1935, type].

PSEUDIRONIDAE

- Pseudiron centralis* McDunnough, 1931: **AB** [Pescador (1985)]. **MB** [McDunnough (1931a)]. **ON** [Griffiths (1996) as unspecified species of *Pseudiron*; larva, Rainy River, July 1968, R. W. Griffiths (RWG)]. **SA** [Lehmkuhl (1976a)].

SIPHONURIDAE

- Parameletus chelifera* Bengtsson, 1908: **MB** [McDunnough (1938)]. **NW** [Harper and Harper (1981)].
- Parameletus columbiae* McDunnough, 1938: **BC** [McDunnough (1938), type].
- Parameletus croesus* (McDunnough), 1923: **ON** [McDunnough (1923) as *Siphonuroides*, type].
- Parameletus midas* (McDunnough), 1923: **MB** [Harper and Harper (1981)]. **NB** [adult, Gloucester Co., Nepisiquit River, Hwy 360, 17 June 1993, B.C. Kondratieff and R. W. Baumann (CSU)]. **ON** [McDunnough (1923) as *Siphonuroides*, type]. **PQ** [McDunnough (1930) as *Sparrea* sp.; McDunnough (1932a)].

- Siphonisca aerodromia* Needham, 1909: **NF** [Labrador: Fiance (1978)]. **PQ** [Magnin and Harper (1970) as unspecified species of *Siphonisca*; Hutchinson (1989)].

- Siphonurus alternatus* (Say), 1824: **AB** [Walley (1927)]. **MB** [Neave (1934)]. **NF** [Newfoundland Island: Larson and Colbo (1983)]. **NB** [adults, Nepisiquit River, Hwy 360, 12 June 1992, M. Menet (CSU)]. **NS** [Whiting (1992)]. **NW** [Say (1824) as *Baetis*, type; Wiens et al. (1975) as *Siphonurus* cf. *alternatus*; Harper and Harper (1981)]. **ON** [McDunnough (1925a)]. **PQ** [Provancher (1876) misidentified as *Baetis femorata* Say, 1824; Provancher (1878) as *Siphilurus*]. **SA** [Oliver (1960)]. **YU** [Harper and Harper (1997)].
- Siphonurus autumnalis* McDunnough, 1931: **AB** [McDunnough (1931a), type]. **BC** [McDunnough (1931a)].

- Siphonurus barbaroides* McDunnough, 1929: **NB** [Whiting (1992)]. **NF** [Labrador: Rapid Brook, Hwy 500, E of Churchhill Falls, 13 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Whiting (1992)]. **PQ** [McDunnough (1929)], type.
- Siphonurus barbarus* McDunnough, 1924: **NS** [adults, Inverness Co., stream into Jack Gillis Brook, 3 June 1992, F. Reyes (CSU)]. **PQ** [McDunnough (1932a)].
- Siphonurus columbianus* McDunnough, 1925: **BC** [McDunnough (1925d)], type.
- Siphonurus demaryi* Kondratieff and Voshell, 1981: **NB** [adult, Kennebecosis River, Rt 895, 3 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [Kondratieff and Voshell (1981), type].
- Siphonurus marshalli* Traver, 1934: **ON** [Williams and Hynes (1976)].
- Siphonurus mirus* (Eaton), 1885: **NS** [adult, Inverness Co., Broad Cove River, Hwy 19, Glenville, 21 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]; adults, Lunenburg Co., Gold River at New Ross, 23 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **PQ** [Dulude (1992) - no data; adults, Saguenay County, Riviere aux Loups Marins, above Route 138, 9 August 1982 (CSU)].
- Siphonurus occidentalis* (Eaton), 1885: **AB** [McDunnough (1925a)]; McDunnough (1931a) as *Siphonurus inflatus* McDunnough, 1931, type]. **BC** [McDunnough (1931a) as *Siphonurus inflatus* McDunnough, 1931]. **NW** [Wiens et al. (1975) as *Siphonurus occidentalis inflatus* McDunnough, 1931]. **YU** [Harper and Harper (1981)].
- Siphonurus phyllis* McDunnough, 1923: **AB** [McDunnough (1923), type]. **MB** [McDunnough (1925a)]. **NW** [Harper and Harper (1981)]. **ON** [Flannagan and Cobb (1995)]. **PQ** [McDunnough (1930)]. **YU** [Harper and Harper (1981)].
- Siphonurus quebecensis* (Provancher), 1878: **NB** [adults, Sunburg Co., Oromocto River, Hwy 101, Tracy, 12 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]; adults, Westmoreland Co., Cecogne River, Rt 126, 12 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **NF** [Newfoundland Island: Larson and Colbo (1983) Labrador: adults, Trout River, Hwy 510 N of Pinware, 6 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [adults, Colchester Co., Waughts River, The Falls, Hwy 256, 3 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **ON** [McDunnough (1925a)]. **PQ** [Provancher (1876) misidentified as *Baetis canadensis* Walker, 1853; Provancher (1978) as *Siphurus*, type].
- Siphonurus rapidos* McDunnough, 1924: **NB** [adults, York Co., Pokiok Stream, Hwy 635 below Lake George, 15 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]; adults, tributary of Tantrama River, N of Sackville, 18 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]; adults, Cunningham Creek, Hwy 7, NW of Nerepsis, 25 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **NF** [Labrador, adults, Ashuanipi River, Hwy 500, W of Ross Bay junction, 12 June 1997, B.C. Kondratieff and R.W. Baumann (CSU)]. **NS** [adult, Cochester Co., Waughts River, The Falls, Hwy 256, 3 June 1998, B.C. Kondratieff and R.W. Baumann (CSU)]. **ON** [Walley (1927)]. **PQ** [McDunnough (1929)].
- Siphonurus securifer* McDunnough, 1926: **ON** [McDunnough (1926b)], type]. **PQ** [Dulude (1992)].
- Siphonurus spectabilis* Traver, 1934: **NW** [Cobb and Flannagan (1980)].
- Siphonurus typicus* (Eaton), 1885: **NF** [Labrador: Walley (1927) as *Siphonurus bernice* [sic] McDunnough, 1923]. **NS** [adults, Kings Co., Butler Lake Brook, below Burke Lake, 23 June 1993, B.C. Kondratieff and R.W. Baumann (CSU)]. **ON** [Walley (1927) as *Siphonurus bernice* [sic] McDunnough, 1923; Giberson and Mackay (1991)]. **PQ** [McDunnough (1923) as *Siphonurus bernice* McDunnough, 1923, type; Harper and Harper (1982)].

CHECKLISTS

Footnotes to species:

- ¹ New record for the province or territory.
² New Canadian record.
³ Originally described from the province or territory.
⁴ Endemic to province or territory.
⁵ Endemic to Canada.
⁶ Also found elsewhere in Canada.
⁷ Also found in Palearctic.
⁸ Also found in the conterminous United States.
⁹ Also found in Alaska.

ALBERTA

ACANTHAMETROPODIDAE

Analetris eximia^{6,8}

AMELETIDAE

Ameletus bellulus^{3,8}, *celeps*^{6,8}, *cook*^{6,8}, *majusculus*^{3,8}, *oregonensis*^{6,8}, *pritchardji*^{5,6}, *similior*^{6,8}, *sparsatus*^{3,6,8}, *subnotatus*^{6,8}, *suffusus*^{5,6}, *validus*^{3,6,8,9}, *velox*^{6,8}, *vernalis*^{6,8}

AMETROPODIDAE

Ametropus neavei^{3,6,8}

BAETIDAE

Acentrella insignificans^{6,8}, *turbida*^{3,6,8}

Acerpenna akataleptos^{3,4,5}

Baetis bicaudatus^{6,7,8,9}, *hoffmani*^{6,8}, *parallelus*^{6,8}, *persecutor*^{5,6}, *tricaudatus*^{6,8,9}

Callibaetis ferrugineus^{6,8}, *pallidus*^{6,8}

Centropilum bifurcatum^{3,6,8}, *conturbatum*^{3,6,8}

Dipheter hagert^{6,8}

Plauditus armillatus^{6,8}, *dubius*^{6,8}, *fulvipes*^{4,5}, *rubrolateralis*^{5,4,5}

Procloeon implicatum^{3,6,8}, *inanum*^{3,5,6}, *ingens*^{3,6,8}, *pennulatum*^{6,7,8}, *quaesitum*^{3,6,8}

BAETISCIDAE

Baetisca lacustris^{6,8}, *laurentina*^{6,8}, *obesa*^{6,8}

CAENIDAE

*Caenis amica*⁸, *latipennis*^{6,8}, *tardata*^{3,6,8}, *youngi*^{6,8}

EPHEMERELLIDAE

Attenella margarita^{6,8}

Drunella coloradenis^{6,8,9}, *doddsi*^{6,8,9}, *flavilinea*^{3,6,8}, *grandis*^{6,8,9}, *spinifera*^{6,8}

Ephemerella aurivillii^{6,7,8,9}, *inermis*^{6,8}, *infrequens*^{3,6,8,9}

Serratella tibialis^{3,6,8,9}

Timpanoga hecuba^{6,8}, *simplex*^{6,8}

EPHEMERIDAE

Ephemera simulans^{6,8}
Hexagenia limbata^{6,8}

HEPTAGENIIDAE

Acanthomola pubescens^{5,6}
Cinygma lyriforme^{3,7,8,9}
Cinygmula confusa^{2,4,5}, *mimus*^{6,8}, *par*^{6,8,9}, *ramaley*^{7,8}, *tarda*^{3,6,8}
Epeorus albertae^{2,6,8}, *deceptivus*^{3,6,8}, *grandis*^{3,6,8}, *longimanus*^{6,8,9}
Heptagenia adaequata^{2,5,6}, *solitaria*^{3,6,8}
*Nixe criddlei*⁸, *simplicioides*^{3,6,7,8}
Rhithrogena futilis^{3,6,8,9}, *hageni*^{3,6,8}, *jejuna*^{6,8}, *morrisoni*^{7,8}, *robusta*^{6,8}, *virilis*^{5,6}
Stenacron interpunctatum^{6,8}
Stenonema terminatum^{6,8}, *vicarium*^{6,8}

ISONYCHIIDAE

Isonychia campestris^{3,6,8}

LEPTOHYPHIDAE

Tricorythodes minutus^{6,8}

LEPTOPHLEBIIDAE

Choroterpes albiamulata^{3,6,8}
Leptophlebia cupida^{6,8}, *nebulosa*^{6,8}
Paraleptophlebia bicornuta^{3,6,8}, *debilis*^{6,8}, *heteronea*^{3,6,8}, *memorialis*^{6,8}, *praepedita*^{6,8}, *temporalis*^{6,8}
Traverella albertana^{3,6,8}

METRETOPODIDAE

Metretopus borealis^{6,7,8}
Siphloplecton basale^{6,8}, *interlineatum*^{6,8}

PSEUDIRONIDAE

Pseudiron centralis^{6,8}

SIPHONURIDAE

Siphonurus alternatus^{6,7,8}, *autumnalis*^{3,6,8}, *occidentalis*^{6,8}, *phyllis*^{3,5,6}

BRITISH COLUMBIA

AMELETIDAE

Ameletus celer^{6,8}, *cooki*^{6,8}, *oregonensis*^{6,8}, *pritchardi*^{7,6}, *shepherd*^{7,8}, *similitor*^{6,8}, *sparsatus*^{6,8}, *subnotatus*^{6,8}, *suffusus*^{3,5,6}, *validus*^{6,8}, *vancouverensis*^{3,8}, *velox*^{6,8}, *vernalis*^{3,6,8}

BAETIDAE

Acentrella insignificans^{3,6,8}, *turbida*^{6,8}
Baetis bicaudatus^{6,7,8,9}, *bundya*^{6,7,8,9}, *moftatii*^{6,8}, *parallelus*^{6,8}, *persecutor*^{3,5,6}, *tricaudatus*^{6,8,9}
Callibaetis ferrugineus^{6,8}
Centropitium album^{6,8}, *bifurcatum*^{6,8}, *conturbatum*^{6,8}

Dipheter hageni^{6,8}
Procloeon bellum^{6,8}, *implicatum*^{6,8}

CAENIDAE

Caenis amica^{6,8}

EPHEMERELLIDAE

Attenella margarita^{1,6,8}
*Candiatella heterocaudata*⁸, *hystrix*⁸, *jacobi*^{7,8}
Drunella coloradensis^{6,8,9}, *doddsi*^{6,8,9}, *flavilineda*^{6,8}, *grandis*^{6,8,9}, *pelosa*⁸, *spinifera*^{3,6,8}
Ephemerella aurivillii^{7,8,9}, *inermis*^{6,8}, *infrequens*^{6,8,9}
*Eurylophella loti*⁸
*Serratella teresa*⁸, *tibialis*^{6,8,9}
Timpanoga hecuba^{6,8}

EPHEMERIDAE

Ephemera simulans^{6,8}
Hexagenia limbata^{6,8}

HEPTAGENIIDAE

*Cinygma integrum*⁸
Cinygmula gartrelli^{3,4,5}, *kootenai*^{3,8}, *mimus*^{6,8}, *par*^{6,8,9}, *ramaley*^{7,8}, *uniformis*^{3,6,8}
Epeorus albertae^{6,8}, *deceptivus*^{6,8}, *dulciana*^{3,8}, *grandis*^{6,8}, *longimanus*^{6,8,9}, *permagnus*⁸
Heptagenia elegantula^{6,8}, *flavescens*^{6,8}, *solitaria*^{6,8}
*Ironodes arctus*⁸, *flavipennis*^{3,4,5}, *nitidus*⁸
Nixe simplicioides^{6,7,8}
Rhithrogena hageni^{6,8}, *jejuna*^{6,8}, *morrisoni*^{6,8}, *robusta*^{6,8}, *virilis*^{3,5}
Stenonema terminatum^{6,8}

LEPTOHYPHIDAE

Tricorythodes minutus^{6,8}

LEPTOPHLEBIIDAE

Leptophlebia cupida^{6,8}, *gravastella*⁸, *nebulosa*^{6,8}
Paraleptophlebia bicornuta^{6,8}, *brunneipennis*⁸, *debilis*^{6,8}, *gregalis*⁸, *heteronea*^{6,8}, *memorialis*^{6,8}, *rufivenosa*⁸, *temporalis*^{3,6,8}, *vaciva*⁸

METRETOPODIDAE

Metretopus borealis^{6,7,8}

SIPHONURIDAE

Parameletus columbiae^{3,8}
Siphonurus autumnalis^{6,8}, *columbianus*^{3,8}, *occidentalis*^{6,8}

MANITOBA

AMELETIDAE

Ameletus subnotatus^{6,8}

BAETIDAE

- Acentrella turbida*^{6,8}
Acerpenna pygmaea^{6,8}
Baetis brunneicolor^{6,8}, *bundya*^{6,7,9}, *flavistriga*^{6,8}, *hudsonicus*^{3,5,6}, *intercalaris*^{6,8}, *pluto*^{6,8},
tricaudatus^{6,8,9}
Callibaetis ferrugineus^{6,8}, *fluctuans*^{6,8}, *propinquus*^{6,8}
Centropilum album^{6,8}, *bifurcatum*^{6,8}, *conturbatum*^{6,8}, *victoriae*^{6,6}
Dipheter hageni^{6,8}
Fallceon quilleri^{6,8}
Labibaetis dardanus^{3,6,8}, *propinquus*^{6,8}
Placidius armillatus^{6,8}, *dubius*^{6,8}, *punctiventris*^{6,8}
Proclonon convexum^{6,8}, *inanum*^{5,6}, *ingens*^{6,8}, *irrubrum*^{3,4,5}, *pennulatum*^{6,7,8}, *quaesitum*^{6,8},
rubropictum^{6,8}, *rufostrigatum*^{3,6,8}, *walshi*^{6,8}

BAETISCIDAE

- Baetisca lacustris*^{6,8}, *laurentina*^{6,8}, *obesa*^{6,8}

CAENIDAE

- Caenis amica*^{6,8}, *latipennis*^{6,8}, *tardata*^{6,8}

EPHEMERELLIDAE

- Ephemerella invaria*^{6,8}
Eurylophella bicolor^{6,8}, *temporalis*^{6,8}
Timpanoga simplex^{6,8}

EPHEMERIDAE

- Ephemera simulans*^{6,8}
Hexagenia bilineata^{6,8}, *limbata*^{6,8}, *rigida*^{6,8}
Pentagenia vittigera^{6,8}

HEPTAGENIIDAE

- Epeorus albertae*^{6,8}, *vitreus*^{6,8}
Heptagenia elegantula^{6,8}, *flavescens*^{6,8}, *pulida*^{6,8}
Leucrocota aphroditae^{6,8}, *hebe*^{6,8}, *jewetti*^{6,8}, *maculipennis*^{6,8}, *umbratica*^{6,8}
Nixe inconspicua^{6,8}, *simplioides*^{6,7,8}
Raptoheptagenia cruentata^{6,8}
Rhithrogena pellucida^{6,8}
Stenacron gidersleevei^{1,2,8}, *interpunctatum*^{6,8}
Stenonema femoratum^{6,8}, *mediopunctatum*^{6,8}, *mexicanum*^{6,8}, *terminatum*^{6,8}, *vicarium*^{6,8}

ISONYCHIIDAE

- Isonychia bicolor*^{6,8}, *campestris*^{6,8}, *rufa*^{6,8}, *sicca*^{6,8}

LEPTOHPHIDAE

- Tricorythodes allectus*^{6,8}, *cobbii*^{3,4,5}, *mosegus*^{3,4,5}

LEPTOPHLEBIIDAE

- Leptophlebia cupida*^{6,8}, *nebulosa*^{6,8}

- Paraleptophlebia debilis*^{6,8}, *mollis*^{6,8}, *praepedita*^{6,8}

METREPODIDAE

- Metretopus borealis*^{6,7,8}
Siphloplecton basale^{3,6,8}, *interlineatum*^{6,8}

POLYMITARCYIDAE

- Ephoron album*^{3,6,8}, *leukon*^{1,6,8}
Tortopus primus^{6,8}

POTAMANTHIDAE

- Anthopotamus myops*^{6,8}

PSEUDIRONIDAE

- Pseudiron centralis*^{6,8}

SIPHONURIDAE

- Parameletus chelifer*^{6,7,9}, *midas*^{5,6}
Siphonurus alternatus^{6,7,8}, *phyllis*^{5,6}

NEW BRUNSWICK

AMELETIDAE

- Ameletus subnotatus*^{6,8}

ARTHROPLEIDAE

- Arthroplea bipunctata*^{6,8}

BAETIDAE

- Acentrella turbida*^{1,6,8}
Acerpenna macdunnoughi^{6,8}, *pygmaea*^{6,8}
Baetis brunneicolor^{6,8}, *flavistriga*^{6,8}, *intercalaris*^{6,8}, *pluto*^{6,8}, *rusticans*^{6,8}, *tricaudatus*^{6,8,9}
Callibaetis ferrugineus^{6,8}
Centropilum album^{6,8}
Dipheter hageni^{6,8}
Heterocloeon curiosum^{6,8}
Labibaetis propinquus^{1,6,8}
Placidius punctiventris^{6,8}
Proclonon bellum^{1,6,8}, *pennulatum*^{1,6,7,8}, *rubropictum*^{1,6,8}, *rufostrigatum*^{6,8}

BAETISCIDAE

- Baetisca laurentina*^{6,8}

CAENIDAE

- Caenis amica*^{6,8}, *latipennis*^{6,8}

EPHEMERELLIDAE

- Attenella attenuata*^{6,8}, *margarita*^{6,8}

Drunella cornuta^{6,8}, *cornutella*^{6,8}, *lata*^{6,8}, *tuberculata*^{6,8}, *walker*^{6,8}
Ephemerella aurivillii^{7,8,9}, *dorothea*^{6,8}, *excrucians*^{6,8}, *invaria*^{6,8}, *needhami*^{6,8}, *rotunda*^{6,8},
septentrionalis^{6,8}, *subvaria*^{6,8}
Eurylophella aestiva^{6,8}, *bicolor*^{6,8}, *funeralis*^{6,8}, *lutulenta*^{6,8}, *minimella*^{6,8}, *prudentialis*^{6,8}, *temporalis*^{6,8},
verisimilis^{6,8}
Serratella deficiens^{6,8}, *molita*^{5,6}, *serrata*^{6,8}, *serratoides*^{6,8}
Timpanoga simplex^{6,8}

EPHEMERIDAE

Ephemerella guttulata^{1,6,8}, *simulans*^{1,6,8}
Hexagenia limbata^{6,8}, *rigida*^{6,8}

HEPTAGENIIDAE

Cinygmula subaequalis^{6,8,9}
Epeorus pleuralis^{6,8}, *vitreus*^{6,8}
Heptagenia pulla^{1,6,8}
Leucrocota hebe^{6,8}
Rhithrogena impersonata^{6,8}, *jejuna*^{6,8}
Stenacron interpunctatum^{6,8}
Stenonema femoratum^{6,8}, *luteum*^{6,8}, *mediopunctatum*^{6,8}, *modestum*^{6,8}, *vicarium*^{6,8}

ISONYCHIIDAE

Isonychia bicolor^{1,6,8}

LEPTOHYPHIDAE

Tricorythodes allectus^{6,8}

LEPTOPHLEBIIDAE

Habrophlebia vibrans^{6,8}
Habrophlebiodes americana^{6,8}
Leptophlebia cupida^{6,8}, *nebulosa*^{6,8}
Paraleptophlebia adoptiva^{6,8}, *debilis*^{1,6,8}, *guttata*^{6,8}, *mollis*^{6,8}, *ontario*^{1,6,8}

METREPODIDAE

Metretopus borealis^{6,7,8}
Siphloplecton basale^{6,8}

POTAMANTHIDAE

Anthopotamus distinctus^{6,8}

SIPHONURIDAE

Parametetus midas^{1-5,6}
Siphonurus alternatus^{1,6,7,8}, *barbaroides*^{6,8}, *demaryi*^{6,8}, *quebecensis*^{1,6,8}, *rapidus*^{1,6,8}

NEWFOUNDLAND (ISLAND)

AMELETIDAE

Ameletus subnotatus^{6,8}

BAETIDAE

Acerpenna macdunnoughi^{6,8}, *pygmaea*^{6,8}
Baetis flavistriga^{6,8}, *tricaudatus*^{6,8,9}
Callibaetis ferrugineus^{6,8}, *pallidus*^{1,6,8}
Proclaoon convexum^{6,8}

CAENIDAE

Caenis amica^{6,8}

EPHEMERELLIDAE

Drunella cornuta^{1-6,8}
Ephemerella aurivillii^{6,7,8,9}, *invaria*^{1,6,8}, *subvaria*^{6,8}
Eurylophella funeralis^{6,8}, *prudentialis*^{6,8}

HEPTAGENIIDAE

Epeorus pleuralis^{6,8}
Heptagenia pulla^{6,8}
Rhithrogena undulata^{6,8}
Stenonema femoratum^{6,8}, *vicarium*^{6,8}

LEPTOHYPHIDAE

Tricorythodes allectus^{6,8}

LEPTOPHLEBIIDAE

Habrophlebia vibrans^{6,8}
Leptophlebia cupida^{6,8}
Paraleptophlebia adoptiva^{6,8}, *debilis*^{6,8}

SIPHONURIDAE

Siphonurus alternatus^{6,7,8}, *quebecensis*^{6,8}

NEWFOUNDLAND (LABRADOR)

(Footnote 10 = new Labrador record only)

AMELETIDAE

Ameletus tertius^{1,6,8}

BAETIDAE

Acentrella lapponica^{6,7,9}
Acerpenna macdunnoughi^{6,8,10}
Baetis bundya^{6,7,9}, *tricaudatus*^{6,8,9,10}

BAETISCIDAE

Baetisca laurentina^{1,6,8}, *rubescens*^{1,6,8}

EPHEMERELLIDAE

Drunella cornutella^{1,6,8}
Ephemerella aurivillii^{6,7,8,9,10}, *invaria*^{1,6,8}, *subvaria*^{6,8,10}

Serratella deficiens^{1,6,8}

EPHEMERIDAE

Ephemera guttulata^{1,6,8}
Litobrancha recurvata^{1,6,8}

HEPTAGENIIDAE

Epeorus pleuralis^{6,8,10}
Rhithrogena jejuna^{6,8}
Stenacron interpunctatum^{1,6,8}
Stenonema terminatum^{1,6,8}, *vicarium*^{6,8,10}

ISONYCHIIDAE

Isonychia bicolor^{1,6,8}

LEPTOPHLEBIIDAE

Leptophlebia cupida^{6,8,10}
Paraleptophlebia mollis^{1,6,8}

METREPODIDAE

Siphloplecton basale^{1,6,8}

SIPHONURIDAE

Siphonisca aerodromia^{6,8}
Siphonurus barbaroides^{1,6,8}, *quebecensis*^{6,8,10}, *rapidus*^{1,6,8}, *typicus*^{6,8}

NORTHWEST TERRITORIES

AMELETIDAE

*Ameletus inopinatus*⁷, *sparsatus*^{1,6,8}

AMETROPODIDAE

Ametropus neavei^{6,8}

ARTHROPLEIDAE

Arthropilea bipunctata^{6,8}

BAETIDAE

Acentrella insignificans^{6,8}, *lapponica*^{6,7,9}
Acerpenna pygmaea^{6,8}
Baetis bicaudatus^{6,7,8,9}, *bundyaei*^{6,7,9}, *flavistrigata*^{6,8}, *foemina*^{3,4,5}, *iricaudatus*^{6,8,9}
Callibaetis ferrugineus^{6,8}
Dipheter hageni^{6,8}
Proclaoon pennulatum^{6,7,8}

BAETISCIDAE

Baetisca laurentina^{6,8}, *obesa*^{6,8}

CAENIDAE

Caenis youngi^{6,8}

EPHEMERELLIDAE

Drunella coloradensis^{6,8,9}, *doddsi*^{6,8,9}
Ephemerella aurivillii^{6,7,8,9}, *excrucians*^{6,8}, *inermis*^{6,8}, *invaria*^{6,8}, *micronata*^{6,7}
Eurylophella bicolor^{6,8}, *temporalis*^{6,8}
Serratella tibialis^{6,8,9}
Timpanoga simplex^{6,8}

EPHEMERIDAE

Ephemera simulans^{6,8}
Hexagenia limbata^{6,8}

HEPTAGENIIDAE

Cinygmula tarda^{6,8}
Epeorus deceptivus^{6,8}, *grandis*^{6,8}, *longimanus*^{6,8,9}
Heptagenia flavescens^{6,8}, *pulla*^{6,8}
Leucrocuta hebe^{6,8}, *maculipennis*^{6,8}
Rhithrogena jejuna^{6,8}, *undulata*^{6,8}
Stenonema femoratum^{6,8}, *vicarium*^{6,8}

LEPTOPHLEBIIDAE

Leptophlebia nebulosa^{6,8}
Paraleptophlebia guttata^{6,8}

METREPODIDAE

Metretopus borealis^{6,8}
Siphloplecton interlineatum^{6,8}

SIPHONURIDAE

Parametetus chetifer^{6,7,9}
Siphonurus alternatus^{3,6,7,8}, *occidentalis*^{6,8}, *phyllis*^{5,6}, *spectabilis*⁸

NOVA SCOTIA

AMELETIDAE

Ameletus tertius^{3,6,8}

ARTHROPLEIDAE

Arthropilea bipunctata^{6,8}

BAETIDAE

Acerpenna macdunnoughi^{6,8}, *pygmaea*^{6,8}
Baetis brunneicolor^{6,8}, *flavistrigata*^{6,8}, *intercalaris*^{6,8}, *pluto*^{6,8}, *tricaudatus*^{6,8,9}
Callibaetis ferrugineus^{6,8}
Centroptilum victorinae^{3,5,6}
Dipheter hageni^{1,6,8}

Labiobaetis frondalis^{6,8}, *propinquus*^{6,8}
Plauditus punctiventris^{6,8}
Procloeon bellum^{6,8}, *rivulare*^{1,2,8}, *rubropictum*^{6,8}, *rufostrigatum*^{6,8}

BAETISCIDAE

Baetisca laurentina^{6,8}

CAENIDAE

Brachycercus lacustris^{1,6,8}
Caenis diminuta^{6,8}

EPHEMERELLIDAE

Attenella attenuata^{6,8}, *margaritata*^{6,8}
Drunella cornuta^{6,8}, *cornuella*^{6,8}, *lata*^{6,8}, *tuberculata*^{6,8}, *walkerii*^{6,8}
Ephemerella aurivillii^{7,8,9}, *dorothea*^{6,8}, *excrucians*^{6,8}, *invaria*^{6,8}, *needhami*^{6,8}, *rotunda*^{6,8}, *subvaria*^{6,8}
Eurylophella aestiva^{6,8}, *bicolor*^{6,8}, *bicoloroides*^{3,8}, *coxalis*^{6,8}, *funeralis*^{6,8}, *minimella*^{6,8}, *prudentialis*^{6,8},
temporalis^{6,8}, *verisimilis*^{6,8}
Serratella deficiens^{6,8}, *molita*^{5,6}, *serrata*^{6,8}, *serratoides*^{6,8}
Timpanoga simplex^{6,8}

EPHEMERIDAE

Ephemerella guttulata^{1,6,8}, *simulans*^{6,8}, *varia*^{1,6,8}
Hexagenia rigida^{1,6,8}

HEPTAGENIIDAE

Cinygmula subaequalis^{6,8,9}
Epeorus fragilis^{6,8}, *pleuralis*^{6,8}, *vitreus*^{6,8}
Heptagenia pulla^{6,8}
Leucocuta hebe^{6,8}
Rhithrogena impersonata^{6,8}, *fejuna*^{6,8}
Stenacron interpunctatum^{6,8}
Stenonema femoratum^{6,8}, *luteum*^{6,8}, *modestum*^{6,8}, *terminatum*^{1,6,8}, *vicarium*^{6,8}

ISONYCHIIDAE

Isonychia bicolor^{1,6,8}

LEPTOPHLEBIIDAE

Habrophlebia vibrans^{6,8}
Leptophlebia cupida^{6,8}, *nebulosa*^{1,6,8}
Paraleptophlebia adoptiva^{6,8}, *debilis*^{6,8}, *guttata*^{6,8}, *moerens*^{6,8}, *molitis*^{6,8}, *strigula*^{6,8}, *volitans*^{6,8}

SIPHONURIDAE

Siphonurus alternatus^{6,7,8}, *barbaroides*^{6,8}, *barbarus*^{1,6,8}, *demaryi*^{3,6,8}, *mirus*^{1,6,8}, *quebecensis*^{1,6,8},
rapidus^{1,6,8}, *typicus*^{1,6,8}

ONTARIO

AMELETIDAE

Ameletus ludens^{6,8}, *subnotatus*^{6,8}, *walleyi*^{3,4,5}

ARTHROPLEIDAE

Arthroplea bipunctata^{6,8}

BAETIDAE

Acentrella turbida^{6,8}
Acerpenna macdunnoughi^{6,8}, *pygmaea*^{6,8}
Baetis brunneicolor^{3,6,8}, *flavistriga*^{3,6,8}, *hudsonicus*^{1,5,6}, *intercalaris*^{6,8}, *pluto*^{6,8}, *rusticans*^{6,8},
tricaudatus^{8,9}
Callibaetis ferrugineus^{6,8}, *fluctuans*^{6,8}, *pretiosus*^{6,8}, *skokianus*^{6,8}
Centropilum album^{3,6,8}, *bifurcatum*^{1,6,8}, *minor*^{3,8}, *semirufum*^{3,6,8}, *triangulifer*^{3,6,8}, *victoriae*^{5,6}
Diphetor hageni^{6,8}
Heterocloeon curtosum^{3,6,8}, *frivolum*^{6,8}
Labiobaetis dardanus^{6,8}, *frondalis*^{6,8}, *longipalpus*^{6,8}, *propinquus*^{6,8}
Plaudius armillatus^{3,6,8}, *cestus*^{1,2,8}, *cinctus*^{6,8}, *dubius*^{6,8}, *punctiventris*^{3,6,8}, *virilis*^{3,6,8}
Procloeon bellum^{6,8}, *convexum*^{3,6,8}, *fragile*^{3,6,8}, *insignificans*^{3,4,5}, *mendax*^{6,8}, *ozburni*^{6,8}, *rubropictum*^{3,6,8},
simile^{6,8}, *simplex*^{6,8}, *viridoculare*^{1,2,8}

BAETISCIDAE

Baetisca lacustris^{3,6,8}, *laurentina*^{6,8}, *obesa*^{6,8}

CAENIDAE

Brachycercus lacustris^{6,8}
Caenis amica^{6,8}, *diminuta*^{6,8}, *hilaris*^{6,8}, *latipennis*^{6,8}, *punctata*^{6,8}, *youngi*^{1,6,8}

EPHEMERELLIDAE

Attenella attenuata^{6,8}
Drunella cornuta^{6,8}, *tuberculata*^{6,8}, *walkerii*^{6,8}
Ephemerella aurivillii^{6,8,9}, *excrucians*^{6,8}, *invaria*^{3,6,8}, *needhami*^{6,8}, *rotunda*^{6,8}, *septentrionalis*^{3,6,8},
subvaria^{6,8}
Eurylophella aestiva^{6,8}, *bartoni*^{3,4,5}, *bicolor*^{3,6,8}, *coxalis*^{6,8}, *enoensis*^{6,8}, *funeralis*^{6,8}, *lutulenta*^{3,6,8},
minimella^{6,8}, *prudentialis*^{6,8}, *temporalis*^{3,6,8}, *verisimilis*^{6,8}
Serratella deficiens^{6,8}, *serrata*^{6,8}, *serratoides*^{6,8}, *sordida*^{6,8}
Timpanoga simplex^{6,8}

EPHEMERIDAE

Ephemerella guttulata^{6,8}, *simulans*^{6,8}, *varia*^{6,8}
Hexagenia atrocaudata^{3,8}, *bilineata*^{6,8}, *limbata*^{6,8}, *rigida*^{6,8}
Litobranchia recurvata^{6,8}
Pentagenia vitigera^{1,6,8}

HEPTAGENIIDAE

Anepeorus simplex^{1,2,8}
Epeorus albertae^{1,6,8}, *pleuralis*^{6,8}, *punctatus*^{3,6,8}, *suffusus*^{6,8}, *vitreus*^{3,6,8}

Heptagenia diabasia^{1,6,8}, *flavescens*^{6,8}, *marginalis*^{6,8}, *pulla*^{3,6,8}
Leucrocota aphroditae^{6,8}, *hebe*^{6,8}, *juno*^{6,8}, *maculipennis*^{6,8}, *minerva*^{6,8}, *walshii*^{3,6,8}
Nixe horrida^{3,4,5}, *inconspicua*^{6,8}, *lucidipennis*^{3,6,8}, *perflida*^{3,8}
Rhithrogena impersonata^{6,8}, *jejuca*^{2,6,8}, *pellucida*^{1,6,8}
Stenacron candidum^{6,8}, *carolind*^{6,8}, *interpunctatum*^{3,6,8}
Stenonema exiguum^{6,8}, *femoratum*^{6,8}, *flaveolum nomen dubium*^{6,8}, *ithacca*^{6,8}, *luteum*^{3,6,8},
mediopunctatum^{3,6,8}, *mexicanum*^{6,8}, *modestum*^{6,8}, *pulchellum*^{6,8}, *terminatum*^{6,8}, *vicarium*^{6,8}

ISONYCHIIDAE

Isonychia bicolor^{3,6,8}, *sicca*^{6,8}

LEPTOHYPHIDAE

Tricorythodes allectus^{6,8}, *minutus*^{6,8}

LEPTOPHLEBIIDAE

Choroterpes basalis^{6,8}

Habrophlebia vibrans^{6,8}

Habrophlebiodes americana^{6,8}

Leptophlebia cupida^{6,8}, *johnsoni*^{6,8}, *nebulosa*^{3,6,8}

Paraleptophlebia adoptiva^{6,8}, *debitilis*^{6,8}, *guttata*^{6,8}, *moerens*^{6,8}, *mollis*^{6,8}, *ontario*^{3,6,8}, *praepedita*^{6,8},
strigula^{3,6,8}, *volitans*^{6,8}

METREPODIDAE

Siphloplecton basale^{6,8}

NEOEPHEMERIDAE

Neophemera bicolor^{6,8}

POLYMITARCYIDAE

Ephoron album^{6,8}, *leukon*^{6,8}

POTAMANTHIDAE

Anthopotamus myops^{6,8}, *verticis*^{6,8}

PSEUDIRONIDAE

Pseudiron centralis^{1,6,8}

SIPHONURIDAE

Parameletus croesus^{3,4,5}, *midas*^{3,5,6}

Siphonurus alternatus^{6,7,8}, *marshalli*^{6,8}, *phyllis*^{5,6}, *quebecensis*^{6,8}, *rapidus*^{6,8}, *securifer*^{3,6,8}, *typicus*^{6,8}

PRINCE EDWARD ISLAND

BAETIDAE

Baetis brunneicolor^{1,6,8}, *flavistriga*^{1,6,8}, *tricaudatus*^{1,6,8,9}

Callibaetis ferrugineus^{1,6,8}

EPHEMERELLIDAE

Ephemerella aurivillii^{1,6,8,9}, *dorothea*^{1,6,8}, *invaria*^{6,8}

HEPTAGENIIDAE

Cinygmula subaequalis^{1,6,8,9}

Epeorus pleuralis^{1,6,8}

Stenacron interpunctatum^{1,6,8}

Stenonema terminatum^{1,6,8}, *vicarium*^{1,6,8}

LEPTOPHLEBIIDAE

Leptophlebia cupida^{1,6,8}

Paraleptophlebia mollis^{1,6,8}

QUEBEC

AMELETIDAE

Ameletus browni^{3,8}, *lineatus*^{6,8}, *ludens*^{6,8}, *subnotatus*^{6,8}, *tertius*^{6,8}

ARTHROPLEIDAE

Arthroplea bipunctata^{6,8}

BAETIDAE

Acentrella lapponica^{6,7,9}, *turbida*^{6,8}

Acerpenna macdunnoughi^{3,6,8}, *pygmaea*^{3,6,8}

Baetis brunneicolor^{6,8}, *bundyaee*^{6,7,9}, *flavistriga*^{6,8}, *intercalaris*^{6,8}, *pluto*^{3,6,8}, *rusticans*^{3,6,8},
tricaudatus^{6,8,9}

Callibaetis ferrugineus^{6,8}, *fluctuans*^{6,8}, *skokianus*^{6,8}

Centropilum album^{6,8}, *semirufum*^{6,8}, *triangulifer*^{6,8}

Dipheter hageni^{6,8}

Heterocoelon curiosum^{6,8}, *frivolum*^{3,6,8}

Labiobaetis dardanus^{6,8}, *frondalis*^{3,6,8}, *propinquus*^{6,8}

Placidius armillatus^{6,8}, *cinctus*^{3,6,8}, *dubius*^{6,8}, *punctiventris*^{6,8}, *virilis*^{6,8}

Procloeon bellum^{3,6,8}, *caliginosum*^{6,8}, *fragile*^{6,8}, *ingens*^{6,8}, *intermediale*^{3,8}, *ozburni*^{3,6,8}, *rubropictum*^{6,8},
rufostrigatum^{6,8}, *simile*^{3,6,8}, *simplex*^{3,6,8}

BAETISCIDAE

Baetisca callosa nomen dubium^{6,8}, *carolina*^{6,8}, *lacustris*^{6,8}, *laurentina*^{3,6,8}, *rubescens*^{3,6,8}

CAENIDAE

Brachycercus flavus^{6,8}, *lacustris*^{6,8}

Caenis amica^{6,8}, *candida*^{3,4,5}, *diminuta*^{6,8}, *latipennis*^{6,8}, *punctata*^{3,6,8}

EPHEMERELLIDAE

Attenella attenuata^{3,6,8}

Drunella cornuta^{6,8}, *cornutiella*^{3,6,8}, *lata*^{3,6,8}, *tuberculata*^{6,8}, *walkerii*^{6,8}

Ephemerella aurivillii^{6,7,8,9}, *dorothea*^{6,8}, *excrucians*^{6,8}, *fratercula*^{3,4,5}, *invaria*^{6,8}, *needhami*^{3,6,8},
quebecensis^{3,4,5}, *rotunda*^{6,8}, *septentrionalis*^{6,8}, *subvaria*^{3,6,8}

Eurylophella aestiva^{3,6,8}, *bicolor*^{6,8}, *coxalis*^{3,6,8}, *funeralis*^{3,6,8}, *lutulenta*^{6,8}, *minimella*^{6,8}, *prudentalis*^{3,6,8}, *temporalis*^{6,8}, *verisimilis*^{3,6,8}
Serratella deficiens^{6,8}, *molita*^{3,5,6}, *serrata*^{6,8}, *serratoideus*^{3,6,8}, *sordida*^{3,6,8}
Timpanoga simplex^{3,6,8}

EPHEMERIDAE
Ephemerella guttulata^{6,8}, *simulans*^{6,8}, *varia*^{6,8}
Hexagenia bilineata^{6,8}, *limbata*^{6,8}, *rigida*^{6,8}
Litobrancha recurvata^{6,8}

HEPTAGENIIDAE
Epeorus fragilis^{6,8}, *pleuralis*^{6,8}, *punctatus*^{6,8}, *suffusus*^{3,6,8}, *vitreus*^{6,8}
Heptagenia diabasia^{6,8}, *manifesta* nomen dubium⁸, *marginalis*^{6,8}, *pulla*^{6,8}
Leucocuta aphrodite^{3,6,8}, *hebe*^{3,6,8}, *juno*^{3,6,8}, *minerva*^{3,6,8}, *umbratica*^{6,8}, *walshi*^{6,8}
Nixe inconspicua^{6,8}, *rusticalis*^{3,6,8}
*Rhythrogena amica*⁸, *anomala*^{3,8}, *brunneotincta*^{3,8}, *gaspeensis*^{3,4,5}, *impersonata*^{3,6,8}, *jejunata*^{6,8}
Stenacron candidum^{6,8}, *carolina*^{6,8}, *interpunctatum*^{6,8}
Stenonema femoratum^{6,8}, *ithaca*^{6,8}, *luteum*^{6,8}, *mediopunctatum*^{6,8}, *modestum*^{6,8}, *pulchellum*^{1,6,8}, *terminatum*^{6,8}, *vicarium*^{6,8}

ISONYCHIIDAE

Isonychia bicolor^{6,8}

LEPTOHYPHIDAE

Tricorythodes allectus^{6,8}, *minutus*^{6,8}, *minutus*^{6,8}, *stygiatus*^{3,8}

LEPTOPHLEBIIDAE

Choroterpes basalis^{6,8}
Habrophlebia vibrans^{6,8}
Habrophlebiodes americana^{6,8}
Leptophlebia cupida^{6,8}, *johnsoni*^{6,8}, *nebulosa*^{6,8}
Paraleptophlebia adoptiva^{6,8}, *debilis*^{6,8}, *guttata*^{3,6,8}, *moerens*^{3,6,8}, *mollis*^{6,8}, *ontario*^{6,8}, *praepedita*^{6,8}, *strigula*^{6,8}, *volitans*^{3,6,8}

METRETOPODIDAE

Metretopus borealis^{6,7,8}
Siphloplecton basale^{6,8}

NEOEPHEMERIDAE

Neopphemera bicolor^{3,6,8}

POLYMITARCYIDAE

Ephoron leukon^{6,8}

POTAMANTHIDAE

Anthopotamus distinctus^{6,8}

SIPHONURIDAE

Parameletus midas^{5,6}
Siphonisca aerodromida^{6,8}
Siphonurus alternatus^{6,7,8}, *barbaroides*^{3,6,8}, *barbarus*^{6,8}, *mirus*^{6,8}, *phyllis*^{5,6}, *quebecensis*^{3,6,8}, *rapidus*^{6,8}, *securifer*^{6,8}, *typicus*^{6,8}

SASKATCHEWAN

ACANTHAMETROPODIDAE

Analetris extima^{6,8}

AMELETIDAE

Ameletus oregonensis^{6,8}

AMETROPODIDAE

Ametropus albrighti^{6,8}, *neavei*^{6,8}

BAETIDAE

Acentrella insignificans^{1,6,8}, *turbida*^{1,6,8}
Acerpenna pygmaea^{1,6,8}
Apobaetis indepressus^{1,2,8}
Baetis brunneicolor^{1,6,8}, *flavistriga*^{1,6,8}, *hudsonicus*^{1,5,6}, *tricaudatus*^{6,8,9}
Callibaetis ferrugineus^{1,6,8}, *pallidus*^{6,8}, *skokianus*^{6,8}
Camelobaetis warreni^{6,8}
Centropitum bifurcatum^{1,6,8}, *victoriae*^{1,5,6}
Dipheter hageni^{1,6,8}
Fallceon quilleri^{6,8}
Labioabaetis dardanus^{1,6,8}, *propinquus*^{1,6,8}
Plautidius armillatus^{1,6,8}, *dubius*^{1,6,8}, *punctiventris*^{1,6,8}, *virilis*^{1,6,8}
Procloeon pennulatum^{6,7,8}, *quaesitum*^{1,6,8}

BAETISCIDAE

Baetisca lacustris^{6,8}, *obesa*^{6,8}

CAENIDAE

Brachycercus prudens^{3,8}
Caenis amica^{6,8}, *latipennis*^{6,8}, *tardata*^{6,8}, *youngi*^{6,8}

EPHEMERELLIDAE

Drunella grandis^{6,8,9}
Ephemerella aurivillii^{6,8,9}, *inermis*^{6,8}
Eurylophella temporalis^{6,8}
Timpanoga litti^{6,8}, *simplex*^{6,8}

EPHEMERIDAE

Ephemerella simulans^{6,8}
Hexagenia limbata^{6,8}

HEPTAGENIIDAE

- Acanthomola pubescens*^{3,5,6}
- Anepeorus rusticus*^{3,8}
- Cinygmula mimus*^{8,8}
- Epeorus longimanus*^{6,8,9}
- Heptogenia adaequata*^{5,6}, *diabasioides*^{6,8}, *elegantula*^{6,8}, *flavescens*^{6,8}, *pullata*^{6,8}, *solitaria*^{6,8}
- Leucrocuta hebe*^{6,8}
- Macdunnhoa nipawinia*^{2,4,5}
- Nixe inconspicua*^{6,8}, *lucidipennis*^{6,8}, *rusticalis*^{6,8}
- Raptoheptogenia cruentata*^{6,8}
- Rhithrogena jejuna*^{6,8}, *undulata*^{6,8}
- Stenacron interpunctatum*^{6,8}
- Stenonema femoratum*^{6,8}, *terminatum*^{6,8}, *vicarium*^{6,8}

ISONYCHIIDAE

- Isonychia campestris*^{6,8}

LEPTOHYPHIDAE

- Tricorythodes minutus*^{6,8}

LEPTOPHLEBIIDAE

- Choroterpes albiannulata*^{6,8}
- Leptophlebia cupida*^{6,8}, *nebulosa*^{6,8}
- Paraleptophlebia adoptiva*^{6,8}, *debilis*^{6,8}, *moerens*^{6,8}, *praepedita*^{6,8}
- Traverella albertana*^{6,8}

METRETOPODIDAE

- Metretopus borealis*^{6,7,8}
- Siphloplecton interlineatum*^{6,8}

OLIGONEURIIDAE

- Lachlania saskatchewanensis*^{3,8}

POLYMITARCYIDAE

- Ephoron album*^{6,8}
- Tortopus primus*^{6,8}

PSEUDIRONIDAE

- Pseudiron centralis*^{6,8}

SIPHONURIDAE

- Siphonurus alternatus*^{6,7,8}

BAETIIDAE

- Acentrella insignificans*^{6,8}
- Baetis bicaudatus*^{6,7,8,9}, *bundyaevae*^{6,7,9}, *tricaudatus*^{6,8,9}

- Callibaetis ferrugineus*^{6,8}
- Labiobaetis propinquus*^{6,8}
- Proclaoon ingens*^{6,8}

CAENIDAE

- Caenis youngi*^{6,8}

EPHEMERELLIDAE

- Drunella coloradensis*^{6,8,9}, *doddsi*^{6,8,9}, *grandis*^{6,8,9}
- Ephemerella mucronata*^{6,7}

HEPTAGENIIDAE

- Cinygmula mimus*^{6,8}, *parvulus*^{6,8,9}, *ramaleyi*^{6,8}, *uniformis*^{1,6,8}
- Epeorus grandis*^{6,8}, *longimanus*^{6,8,9}
- Heptagenia pulla*^{6,8}
- Rhithrogena futilis*^{6,8,9}, *undulata*^{6,8}

LEPTOPHLEBIIDAE

- Leptophlebia nebulosa*^{6,8}
- Paraleptophlebia debilis*^{6,8}, *moerens*^{6,8}

METRETOPODIDAE

- Metretopus borealis*^{6,7,8}

SIPHONURIDAE

- Siphonurus alternatus*^{6,7,8}, *occidentalis*^{6,8}, *phyllis*^{5,6}

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