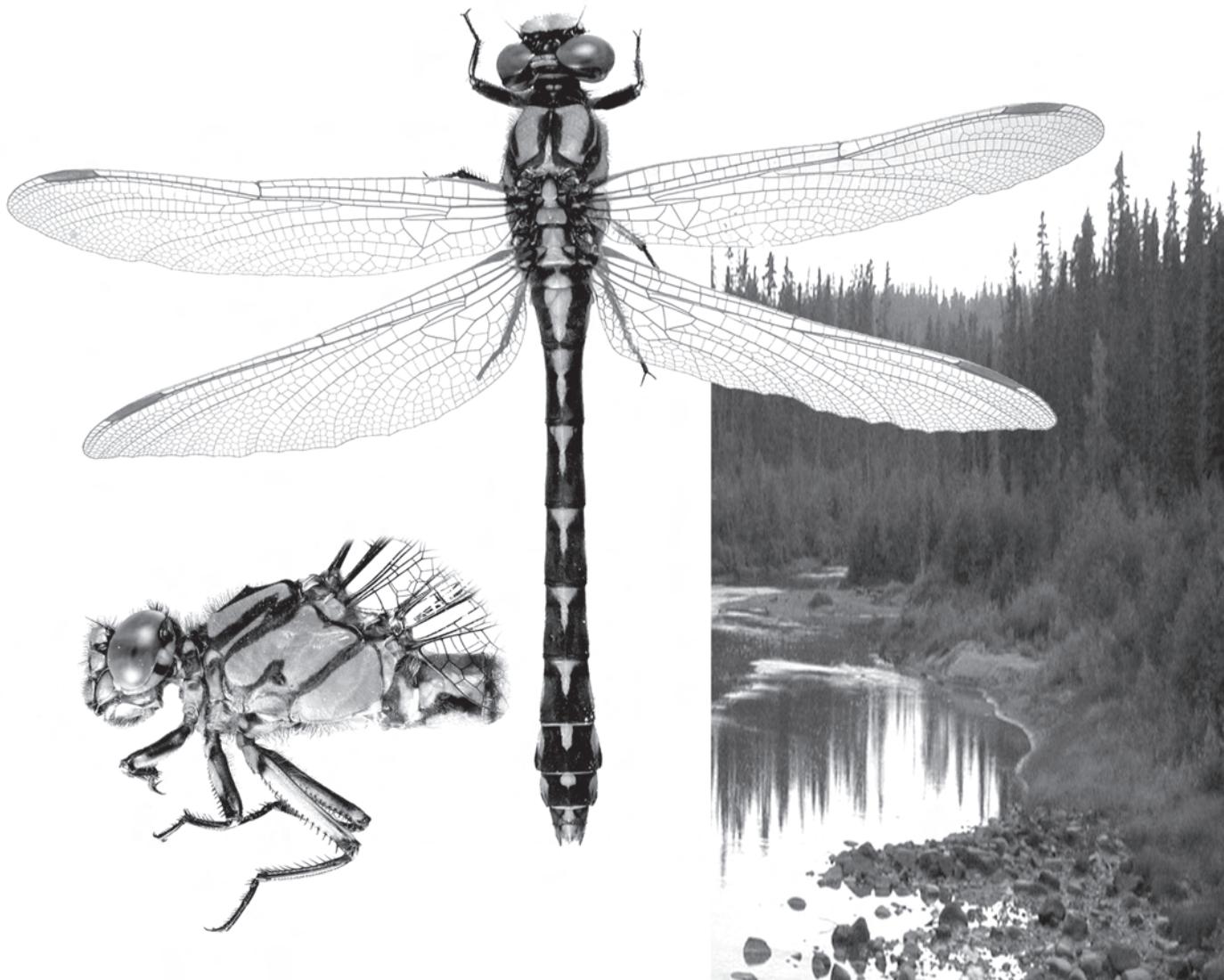


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An Annotated Checklist of the Odonata of Canada

Paul M. Catling, Robert A. Cannings, and Paul M. Brunelle, pp. 1–20

The Dragonfly Society Of The Americas

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An Annotated Checklist of the Odonata of Canada

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This list of the 208 species of Canadian Odonata is current as of October 2004. It uses the scientific nomenclature and English names of the North American list sponsored by the Dragonfly Society of the Americas (Paulson and Dunkle 1999, updates and revisions). French names come from Pilon and Lagacé (1998), which includes only those species known in the province of Québec as of the date of that publication. Following the basic list is a table of species occurrence by province and territory with rankings indicating national and provincial conservation status. Also included are recent additions to the Canadian fauna, taxonomic notes and an extensive list of references that provides the basis for decisions on occurrence and status.

It is our intention to keep this list up-to-date. We welcome new information and any suggestions for changes or improvements.

Status

The national and provincial status rankings for the 208 species of Canadian dragonflies were recently posted on the web (see <http://www.wildspecies.ca/dragonflies.cfm?lang=3De>). Much of the conservation ranking of Canadian dragonflies was led by Jim Duncan of the Wildlife and Ecosystem Protection Branch of Manitoba Conservation and facilitated by Lisa Twolan of the Canadian Wildlife Service. Jim organized a workshop held 9 October 2002 during national entomological meetings in Winnipeg, Manitoba. Joe Ackerman, John Acorn, Paul Brunelle, Rob Cannings, Philip Corbet, Jim Duncan, Brent Elliot, Terry Galloway, Donna Giberson, Henri Goulet, and Marjorie Hughes were involved in the ranking work. The rankings were finalized in Ottawa on 22 November 2003 by the National General Status Working Group, which is composed of biologists from each Canadian province and territory and from three federal agencies whose mandate includes wildlife. Our update of the ranking table (Table 1) includes the elimination of some rank "5" provincial listings where no reliable record exists and the addition of several species for various provinces and territories (indicated by a "6", which signifies known presence but unassessed status). It is to be noted with regard to this table that the Odonata of Nunavut Territory have been relatively little studied and the Saskatchewan Odonate fauna is the least well documented. Lisa Twolan and Jim Duncan of the working group have outlined the importance of these rank-

ings: "Ensuring human actions don't drive species extinct in Canada means knowing the status of species across the length and breadth of the nation — which species are secure for now, which to keep an eye on, and which need to be formally assessed and perhaps protected. The most recent effort on dragonflies provides an overview of their status in Canada. It brings the results of the remarkably extensive data accumulation by volunteers as well as that of Provincial, Territorial, and Federal agencies onto a single platform for the first time. This effort was conducted under the auspices of the National Accord for the Protection of Species at Risk."

The monitoring of Odonata populations will increase in importance, and the information provided here will assist in such efforts. Information on changes in status is needed to determine whether species are endangered, threatened, or of special concern, but few studies of this kind (e.g. Catling 2001a, Catling and Brownell 2002, Ramsay and Cannings 2005) have been done, although the information necessary for such valuations is rapidly increasing.

References

The list of references is not intended to be a comprehensive compilation of the literature covering Canadian Odonata. However, it includes much of the published basis for the rankings, and many of the significant sources of occurrence data — including new national and provincial/territorial records published since Walker (1953, 1958) and Walker and Corbet (1975). We have made this justification as concise as possible — in many cases where the original reference to the occurrence of a species is not listed, it can be traced through the literature provided. For example, many new records for Québec are referenced in Pilon and Lagacé (1998). In most cases only the most recent article on range extensions for a newly recorded species is referenced. For example, the reference to range extensions in Ontario for *Enallagma anna* (Catling *et al.* 2001), first discovered in Canada by Pratt in 1998 (O'Brien and Pratt 1998), is not listed because it can be traced in Jones (2002). For additional information on the resources available for the study of Odonata in Canada see Cannings (2004).

As well as the literature reports, collections and databases provide an essential foundation for the Canadian list and conservation status rankings. Major Odonata collections

include the Canadian National Collection at Agriculture and Agri-food Canada in Ottawa; the Royal Ontario Museum in Toronto; and the Royal British Columbia Museum in Victoria. Some of these are databased; for example, the latter collection contains 30,000 Canadian records. Important databases include those at Conservation Data Centres (see <http://www.natureserve.org/visitLocal/index.jsp>). The Natural Heritage Information Centre (NHIC) in Ontario has 35,000 georeferenced records. Another major database is the Atlantic Dragonfly Inventory Program (ADIP) with 21,000 records from the Atlantic provinces. For additional information on collections and databases see Cannings (2004).

Recent Additions

Since the classic works on Canadian Odonata by Walker (1953, 1958) and Walker and Corbet (1975), 16 species have been added to the Canadian fauna. These are (in alphabetical order with first province, date, discoverer(s) and the first published reference):

Archilestes grandis (ON 2002 — P. Pratt and S. Paiero, 2002; Pratt and Paiero 2003).

Dromogomphus spoliatus (ON 1987 — P. Pratt, P. Bondy and J. Barton; Pratt 1996).

Enallagma anna (ON 1998 — P. Pratt; O'Brien and Pratt 1998).

Enallagma traviatum westfalli (ON 1991 — I. Carmichael and J. Skevington; Skevington and Carmichael 1997).

Enallagma basidens (ON 1985 — R.A. Cannings; Cannings 1989).

Epitheca semiaquea (NS, NB, once considered *E. cynosura* records; shown for five locations in NS and one in NB; Donnelly 2004b).

Gomphus abbreviatus (NB 2001 — A.W. Thomas; Sabine et al. 2004).

Hetaerina titia (ON 1985 — P. Pratt; Pratt and Catling 1998).

Ischnura kellicotti (ON 2001 — P. Pratt; Pratt 2002).

Macromia taeniolata (ON 1987 — P. Pratt, P. Bondy and J. Barton; Pratt 1996).

Neurocordulia michaeli (NB 1993 — P.M. Brunelle; Brunelle 1997, 2000b).

Neurocordulia obsoleta (NB 2002 — D.L. Sabine; Sabine et al. 2004).

Ophiogomphus howei (NB 2002 — P.M. Catling; Catling 2002a).

Progomphus obscurus (ON 1996 — P. Burke and C.D. Jones; Burke 1996).

Somatochlora linearis (ON 2003 — P. Burke and C.D. Jones; Jones and Burke 2004).

Stylurus laurae (ON 1999 — P.M. Catling; Catling and Catling 1999).

Numerous additions to the known Odonate fauna of provinces and territories, significant range extensions within provinces, and much additional information on regional status of species can be traced through the references provided.

Excluded Records (National and Provincial/Territorial)

Aeshna verticalis Hagen was recently excluded from Manitoba by Hughes and Duncan (2003).

Coenagrion angulatum Walker was erroneously reported from Prince Edward Island in Westfall and May (1996); the error is explained in Brunelle (1997).

Crocothemis servilia (Drury) was discovered emerging from containers of imported aquatic plants inside a building in Québec (Perron et al. 2003). This indoor record is excluded.

Enallagma durum (Hagen) is not included. It is recorded, but questioned, for Québec by Westfall and May (1996), but is omitted by Pilon and Lagacé (1998).

Enallagma exsulans (Hagen) locations in British Columbia (Donnelly 2004c) are database errors.

Lanthus parvulus (Sélys) locations in Ontario (Donnelly 2004a) are mapping errors (T.W. Donnelly, pers. comm.).

Lestes disjunctus australis Walker should be raised to a full species from subspecific rank in accordance with the DSA list, a change based on the paper by Donnelly (2003). However, this species is not included because earlier records from southern Ontario are considered erroneous or lack supporting evidence (Catling 2003) and re-evaluation of specimens from Atlantic Canada is incomplete. With further study, the presence of *L. australis* in Canada might be confirmed.

Nasiaeschna pentacantha (Rambur) was erroneously reported from Nova Scotia in Donnelly (1995); it is not known from that province.

Ophiogomphus anomalus Harvey was erroneously reported from Nova Scotia in Donnelly (1995); it is not known from that province.

Plathemis subornata (Hagen) was reported from British Columbia (Cannings 1983, Needham et al. 2000). Despite specimen evidence we have omitted this species of the southwestern United States because it cannot not be considered accidental based on the number of specimens and the fact that it is not a wandering species. It was reported by only a single collector and all records are before 1973. Furthermore, appropriate habitat does not exist for hundreds of kilometers around Nanaimo where the specimens were reported to have been collected. It is likely that there has been a mix-up of collection data — probably the specimens were obtained from elsewhere but were sorted incorrectly. For example, odonatologists occasionally use envelopes that have been used before

and bear data associated with a previous locality, and sometime forget to replace the locality data.

Somatochlora albicincta (Burmeister) was erroneously reported from Nova Scotia in Donnelly (1995), but was not known from that province at that time. It was later discovered there in 1998.

Sympetrum illotum (Hagen) was recently excluded from Manitoba by Hughes and Duncan (2003).

Sympetrum janeae Carle, described in 1993, is excluded pending taxonomic clarification. Despite some effort, Canadian experts have not been able to recognize it as a distinct taxon (e.g. Pilon and Legacé 1998, Catling 2002b).

Sympetrum rubicundulum (Say) was recently excluded from Manitoba by Hughes and Duncan (2003).

Tachopteryx thoreyi (Hagen), reported from Québec was discussed by Savard (1987) and discounted by Pilon and Legacé (1998, p. 27).

Synonymy

A number of scientific names have changed since the publication of Walker (1953, 1958) and Walker and Corbet (1975); with the recent re-issuing of the Walker volumes, some confusion about nomenclature may still exist. Most of these changes appear in major publications such as Westfall and May (1996) and Needham *et al.* (2000) and are accepted here; however, not all are included in the DSA list (Paulson and Dunkle 1999 and updates) and thus some are not followed herein. Some of the potentially confusing nomenclature is noted below. The Walker usage is usually indicated first.

Aeshna californica — Walker (1958), now *Rhionaeschna californica*.

Aeshna multicolor — Walker (1958), now *Rhionaeschna multicolor*.

Aeshna mutata — Walker (1958), now *Rhionaeschna mutata*.

Agriidae — Walker (1953), now Calopterygidae.

Agriion — Walker (1953), now *Calopteryx*.

Anomalagrion hastatum — Walker (1953), now *Ischnura hastata*.

Argia violacea — Walker (1953), now *Argia fumipennis violacea*.

Celithemis monomelaena — Walker and Corbet (1975), now *Celithemis fasciata*.

Enallagma vernale — Walker (1953), but treated in Westfall and May (1996) as *E. cyathigerum vernale*; herein as *E. vernale* (see Donnelly 1998, McPeek 1998).

Epitheca canis — Walker and Corbet (1975), but treated as *Tetragoneuria canis* in Needham *et al.* (2000); herein as *Epitheca canis*.

Epitheca cynosura — Walker and Corbet (1975), but treated

as *Tetragoneuria cynosura* in Needham *et al.* (2000); herein as *Epitheca cynosura*.

Epitheca princeps — Walker and Corbet (1975), but treated as *Epicordulia princeps* in Needham *et al.* (2000), herein as *Epitheca princeps*.

Epitheca semiaquea — Walker and Corbet (1975), but treated as *Tetragoneuria semiaquea* in Needham *et al.* (2000); herein as *Epitheca semiaquea*.

Epitheca spinigera — Walker and Corbet (1975), but treated as *Tetragoneuria spinigera* in Needham *et al.* (2000); herein as *Epitheca spinigera*.

Erythemis collocata (Hagen) and **E. simplicicollis** (Say) are maintained as separate species pending further taxonomic clarification (see Donnelly 2004d).

Gomphus amnicola — Walker (1958), now *Stylurus amnicola*.

Gomphus brevis — Walker (1958), now *Gomphus adelphus*.

Gomphus cornutus — Walker (1958), now *Arigomphus cornutus*.

Gomphus furcifer — Walker (1958), now *Arigomphus furcifer*.

Gomphus intricatus — Walker (1958), now *Stylurus intricatus*.

Gomphus notatus — Walker (1958), now *Stylurus notatus*.

Gomphus olivaceus — Walker (1958), now *Stylurus olivaceus*.

Gomphus plagiatus — Walker (1958), now *Stylurus plagiatus*.

Gomphus scudderi — Walker (1958), now *Stylurus scudderi*.

Gomphus villosipes — Walker (1958), now *Arigomphus villosipes*.

Lanthus albistylus — Walker (1958), now *Stylogomphus albistylus*.

Lestes disjunctus australis — Walker (1953), now *L. australis*.

Libellula exusta — Walker and Corbet (1975), now *Ladona exusta*.

Libellula julia — Walker and Corbet (1975), now *Ladona julia*.

Libellula lydia — Walker and Corbet (1975), now *Plathemis lydia*.

Macromia rickeri — Walker and Corbet (1975) is considered a synonym of *M. magnifica* based on unpublished research by D.R. Paulson. This opinion is generally accepted, e.g. Needham *et al.* (2000), Cannings 2002b.

Neurocordulia michaeli sp. nov. Brunelle (1997) now *N. michaeli* Brunelle (2002).

Somatochlora albicincta massettensis Whitehouse 1941, a large form described by Whitehouse from the Queen Charlotte Islands, has been most recently treated as a synonym (e.g. Garrison 1991).

Subspecies

Although there are relatively few subspecies in Canadian Odonata, several pose taxonomic questions which have not yet been resolved. The National General Status Ranking Group (NGSRG) ranks only species. Subspecies are ranked collectively as the species they belong to. Thus not all subspecies in the list are included in Table 1.

In some cases it is clear which subspecies were ranked because only one subspecies occurs in Canada. For example: *Argia fumipennis* populations in Canada include only members of the subspecies *violacea*; *Enallagma traviatum* populations in Canada include only members of the subspecies *westfalli* (Donnelly 1973); *Ophiogomphus mainensis* in Canada includes only subspecies *mainensis*.

Aeshna interrupta populations in Canada are believed to include members of three subspecies: *A. i. interrupta*, *A. i. interna*, and *A. i. lineata*. Although *A. i. interrupta* is mostly eastern and *A. i. lineata* is mostly western with a break in northwestern Ontario, it is not quite that simple. Individuals apparently referable to *A. i. lineata* have been documented at low frequencies in the Atlantic provinces and the typical eastern *A. i. interrupta* occurs on the Pacific coast (west of the Cascades and Coast ranges), and also is mixed in with *A. i. lineata* in the interior of British Columbia. Even worse there are occasional specimens that have a line on one side and are thus referable to *A. i. lineata* and two separate spots on the other side and thus referable to *A. i. interrupta*. *Aeshna interrupta interna*, with a relatively broad thoracic stripe, occurs in the southeast British Columbia and in the southern Rocky Mountains of Alberta, but the region is also characterized by intergrades (Cannings & Stuart 1977). Although there is an interesting pattern of variation, the recognition of subspecies appears to require more study.

The subspecies of *Aeshna umbrosa* are also an area of difficulty. The nominate green subspecies, *A. u. umbrosa* is transcontinental whereas the blue subspecies, *A. u. occidentalis* is generally considered to be only western. Although blue individuals occur in the east, a more serious problem is that both occur throughout much of British Columbia and both are common in the interior, often in the same locality. Green individuals referable to *A. u. umbrosa* also occur with *A. u. occidentalis* on the Pacific coast (Cannings & Stuart 1977). See Walker (1958) for additional information on these races and reference to a dark form on Vancouver Island.

Although little studied until recently, *Gomphus fraternus manitobanus*, a paler race with yellow on external surfaces of tibiae and abdominal segments 9 and 10 each with a dorsal yellow spot, appears to be discrete in Canada and is apparently confined to the region of Winnipeg and westward.

Gomphus fraternus fraternus is the darker eastern form that evidently does not overlap.

The relatively dark *Ophiogomphus severus montanus* is the common form in the interior of British Columbia and in Rocky Mountains of Alberta whereas the lighter *O. s. severus* is the Great Plains form, occurring in British Columbia east of the Rockies (Peace River area, etc.) and in Alberta.

The separation of the eastern *Sympetrum semicinctum* from the western *S. occidentale* requires more study. Not only is there some difficulty in separating the species, but the *S. occidentale* has two Canadian subspecies; *S. o. occidentale* occurs in the mountains while *S. o. fasciatum* with more strongly banded wings occurs in the Great Plains.

Other species have races but are not currently treated as subspecies either because they have been placed in synonymy (e.g. *Macromia rickeri*, *Somatochlora albicincta massettensis*) or the variations within Canada have not been recognized taxonomically (e.g. *Epitheca cynosura*, *Epitheca princeps*, *Leucorrhinia proxima*). Some of these have well marked geographic variants related to climate and particularly temperature. *Macromia rickeri* is a dark form of *M. magnifica*. The amount of pale coloration is dependent on the average temperature and amount of rainfall in the various areas where the species occurs. *Leucorrhinia proxima* has the pale areas red and is truly the Red-waisted Whiteface in much of the west, but is pale yellow on the waist and elsewhere in much of the east (e.g. Donnelly 2004b).

List of Species

Order ODONATA — Damselflies and Dragonflies (208 species)

Suborder ZYGOPTERA — Damselflies (57 species)

Family CALOPTERYGIDAE — Broad-winged Damsels (5 species)

Calopteryx aequabilis Say, 1839 — River Jewelwing / caloptéryx à taches apicales

C. amata Hagen, 1890 — Superb Jewelwing / caloptéryx élancé

C. maculata (Beauvois, 1805) — Ebony Jewelwing / caloptéryx bistré

Hetaerina americana (Fabricius, 1788) — American Rubyspot / courtisane d'Amérique

H. titia (Drury, 1773) - Smoky Rubyspot

Family LESTIDAE — Spreadwings (10 species)

Archilestes grandis (Rambur, 1842) — Great Spreadwing

- Lestes congener* Hagen, 1861 — Spotted Spreadwing / lestes tardif
- L. disjunctus* Selys, 1862 — Northern Spreadwing / lestes disjoint
- L. dryas* Kirby, 1890 — Emerald Spreadwing / lestes dryade
- L. eurinus* Say, 1839 — Amber-winged Spreadwing / lestes flamboyant
- L. forcipatus* Rambur, 1842 — Sweetflag Spreadwing / lestes à forceps
- L. inaequalis* Walsh, 1862 — Elegant Spreadwing / lestes inégal
- L. rectangularis* Say, 1839 — Slender Spreadwing / lestes élancé
- L. unguiculatus* Hagen, 1861 — Lyre-tipped Spreadwing / lestes onguiculé
- L. vigilax* Hagen in Selys, 1862 — Swamp Spreadwing / lestes matinal
- Family COENAGRIONIDAE** — Pond Damsels (42 species)
- Amphiagrion abbreviatum* (Selys, 1876) — Western Red Damsel
- A. saucium* (Burmeister, 1839) — Eastern Red Damsel / agrion rougeâtre
- Argia apicalis* (Say, 1839) — Blue-fronted Dancer
- A. emma* Kennedy, 1915 — Emma's Dancer
- A. fumipennis* Burmeister, 1839 violacea (Hagen, 1861) — Violet Dancer / argie violacée
- A. moesta* (Hagen, 1861) — Powdered Dancer / argie svelte
- A. sedula* (Hagen, 1861) — Blue-ringed Dancer
- A. tibialis* (Rambur, 1842) — Blue-tipped Dancer
- A. translata* Hagen in Selys, 1865 — Dusky Dancer
- A. vividula* Hagen in Selys, 1865 — Vivid Dancer
- Chromagrion conditum* (Hagen in Selys, 1876) — Aurora Damsel / agrion à tache jaune
- Coenagrion angulatum* Walker, 1912 — Prairie Bluet
- C. interrogatum* (Hagen in Selys, 1876) — Subarctic Bluet / agrion ponctué
- C. resolutum* (Hagen in Selys, 1876) — Taiga Bluet / agrion résolu
- Enallagma anna* Williamson, 1900 — River Bluet
- E. antennatum* (Say, 1839) — Rainbow Bluet / agrion arc-en-ciel
- E. aspersum* (Hagen, 1861) — Azure Bluet / agrion saupoudré
- E. basidens* Calvert, 1902 — Double-striped Bluet
- E. boreale* Selys, 1875 — Boreal Bluet / agrion boréal
- E. carunculatum* Morse, 1895 — Tule Bluet / agrion des scirpes
- E. civile* (Hagen, 1861) — Familiar Bluet / agrion civil
- E. clausum* Morse, 1895 — Alkali Bluet / agrion halophile
- E. cyathigerum* (Charpentier, 1840) — Northern Bluet / agrion porte-coupes
- E. ebrium* (Hagen, 1861) — Marsh Bluet / agrion enivré
- E. exsulans* (Hagen, 1861) — Stream Bluet / agrion exilé
- E. geminatum* Kellicott, 1895 — Skimming Bluet / agrion minuscule
- E. hageni* (Walsh, 1863) — Hagen's Bluet / agrion de Hagen
- E. minusculum* Morse, 1895 — Little Bluet
- E. signatum* (Hagen, 1861) — Orange Bluet / agrion orangé
- E. traviatum* Selys, 1876 westfalli Donnelly, 1964 — Slinger Bluet
- E. vernale* Gloyd, 1943 — Vernal Bluet / agrion printanier
- E. vesperum* Calvert, 1919 — Vesper Bluet / agrion vesperal
- Ischnura cervula* Selys, 1876 — Pacific Forktail
- I. damula* Calvert, 1902 — Plains Forktail
- I. erratica* Calvert, 1895 — Swift Forktail
- I. hastata* (Say, 1839) — Citrine Forktail
- I. kellicotti* Williamson, 1898 — Lilypad Forktail
- I. perparva* McLachlan in Selys, 1876 — Western Forktail
- I. posita* (Hagen, 1861) — Fragile Forktail / agrion posé
- I. verticalis* (Say, 1839) — Eastern Forktail agrion vertical
- Nehalennia gracilis* Morse, 1895 — Sphagnum Sprite / déesse gracieuse
- N. irene* (Hagen, 1861) — Sedge Sprite / déesse paisible
- Suborder ANISOPTERA** — Dragonflies (151 species)
- Family PETALURIDAE** — Petaltails (1 species)
- Tanypteryx hageni* (Selys, 1879) — Black Petaltail
- Family AESHNIDAE** — Darners (24 species)
- Aeshna canadensis* Walker, 1908 — Canada Darner / aeschne du Canada
- A. clepsydra* Say, 1839 — Mottled Darner / aeschne clepsydre
- A. constricta* Say, 1839 — Lance-tipped Darner / aeschne constrictor
- A. eremita* Scudder, 1866 — Lake Darner / aeschne porte-crosses
- A. interrupta interrupta* Walker, 1908 — Variable Darner / aeschne domino
- A. interrupta lineata* Walker, 1908 — Variable Darner
- A. interrupta interna* Walker, 1908 — Variable Darner
- A. juncea* (Linnaeus, 1758) — Sedge Darner / aeschne des jongs
- A. palmata* Hagen, 1856 — Paddle-tailed darner
- A. septentrionalis* Burmeister, 1839 — Azure Darner /

- aeschne septentrionale
- A. sitchensis** Hagen, 1861 — Zigzag Darner / aeschne à zigzags
- A. subarctica** Walker, 1908 — Subarctic Darner / aeschne subarctique
- A. tuberculifera** Walker, 1908 — Black-tipped Darner / aeschne à tubercles
- A. umbrosa umbrosa** Walker, 1908 — Shadow Darner / aeschne des pénombres
- A. umbrosa occidentalis** Walker, 1912 — Shadow Darner / aeschne des pénombres
- A. verticalis** Hagen, 1861 — Green-striped Darner / aeschne verticale
- Anax junius** (Drury, 1770) — Common Green Darner / l'anax
- A. longipes** Hagen, 1861 — Comet Darner
- Basiaeschna janata** (Say, 1839) — Springtime Darner / aeschne printanière
- Boyeria grafana** Williamson, 1907 — Ocellated Darner / aeschne fuligineuse
- B. vinosa** (Say, 1839) — Fawn Darner/ aeschne vineuse
- Epiaeschna heros** (Fabricius, 1798) — Swamp Darner / aeschne majestueuse
- Gomphaeschna furcillata** (Say, 1839) — Harlequin Darner / aeschne pygmée
- Nasiaeschna pentacantha** (Rambur, 1842) — Cyrano Darner / aeschne Cyrano
- Rhionaeschna californica** (Calvert, 1895) — California Darner
- R. multicolor** (Hagen, 1861) — Blue-eyed Darner
- R. mutata** (Hagen, 1861) — Spatterdock Darner
- Family GOMPHIDAE** — Clubtails (41 species)
- Arigomphus cornutus** (Tough, 1900) — Horned Clubtail / gomphé cornu
- A. furcifer** (Hagen in Sélys, 1878) — Lilypad Clubtail / gomphé fourchu
- A. villosipes** (Sélys, 1854) — Unicorn Clubtail
- Dromogomphus spinosus** Sélys, 1854 — Black-shouldered Spinyleg / gomphé épineux
- D. spoliatus** (Hagen in Sélys, 1858) — Flag-tailed Spinyleg
- Gomphus abbreviatus** Hagen in Sélys, 1878 — Spine-crowned Clubtail
- G. adelphus** Sélys, 1858 — Moustached Clubtail / gomphé jumeau
- G. borealis** (Needham, 1901) — Beaverpond Clubtail / gomphé boréal
- G. descriptus** (Banks, 1896) — Harpoon Clubtail / gomphé descriptif
- G. exilis** Sélys, 1854 — Lancet Clubtail / gomphé exilé
- G. externus** Hagen in Sélys, 1858 — Plains Clubtail
- G. fraternusfraternus** (Say, 1839) — Midland Clubtail / gomphé fraternel
- G. fraternus manitobanus** Walker, 1958 — Manitoba Clubtail
- G. graslinellus** Walsh, 1862 — Pronghorn Clubtail
- G. lividus** Sélys, 1854 — Ashy Clubtail / gomphé livide
- G. quadricolor** Walsh, 1863 — Rapids Clubtail
- G. spicatus** Hagen in Sélys, 1854 — Dusky Clubtail / gomphé pointu
- G. vastus** (Walsh, 1862) — Cobra Clubtail / gomphé cobra
- G. ventricosus** (Walsh, 1863) — Skillet Clubtail / gomphé ventru
- G. viridifrons** Hine, 1901 — Green-faced Clubtail
- Hagenius brevistylus** Sélys, 1854 — Dragonhunter / l'hagénie
- Lanthus parvulus** (Sélys, 1854) — Northern Pygmy Clubtail / gomphé minuscule
- Octogomphus specularis** (Hagen in Sélys, 1859) — Grapptetail
- Ophiogomphus anomalus** Harvey, 1898 — Extra-striped Snaketail / ophiogomphé bariolé
- O. aspersus** Morse, 1895 — Brook Snaketail / ophiogomphé saupoudré
- O. carolus** Needham, 1897 — Riffle Snaketail / ophiogomphé de Carole
- O. colubrinus** Sélys, 1854 — Boreal Snaketail / ophiogomphé boréal
- O. howei** Bromley, 1924 — Pygmy Snaketail
- O. mainensis mainensis** Packard, 1863 — Maine Snaketail / ophiogomphé du Maine
- O. occidentis** Hagen, 1883 — Sinuous Snaketail
- O. rupinsulensis** (Walsh, 1862) — Rusty Snaketail / ophiogomphé roussâtre
- O. severus severus** Hagen, 1874 — Pale Snaketail
- O. severus montanus** (Sélys, 1878) — Pale Snaketail
- Progomphus obscurus** (Rambur, 1842) — Common Sanddragon
- Stylogomphus albistylus** (Hagen in Sélys, 1878) — Least Clubtail / gomphé à styles blancs
- Stylurus amnicola** (Walsh, 1862) — Riverine Clubtail / gomphé riverin
- S. intricatus** (Hagen in Sélys, 1858) — Brimstone Clubtail
- S. laurae** (Williamson, 1932) — Laura's Clubtail
- S. notatus** (Rambur, 1842) — Elusive Clubtail / gomphé marqué
- S. olivaceus** (Sélys, 1873) — Olive Clubtail
- S. plagiatus** (Sélys, 1854) — Russet-tipped Clubtail
- S. scudderri** (Sélys, 1873) — Zebra Clubtail / gomphé de Scudder
- S. spiniceps** (Walsh, 1862) — Arrow Clubtail / gomphé

fléché

Family CORDULEGASTRIDAE — Spiketails (4 species)

- Cordulegaster diastatops* (Sélys, 1854) — Delta-spotted Spiketail / cordulégastre aux yeux séparés
C. dorsalis Hagen in Sélys, 1858 — Pacific Spiketail
C. maculata Sélys, 1854 — Twin-spotted Spiketail / cordulégastre maculé
C. obliqua (Say, 1839) — Arrowhead Spiketail / cordulégastre oblique

Family MACROMIIDAE — Cruisers (4 species)

- Didymops transversa* (Say, 1839) — Stream Cruiser / macromie brune
Macromia illinoiensis Walsh, 1862 — Swift River Cruiser / macromie noire
M. magnifica McLachlan in Sélys, 1874 — Western River Cruiser
M. taeniolata Rambur, 1842 — Royal River Cruiser

Family CORDULIIDAE — Emeralds (32 species)

- Cordulia shurtleffi* Scudder, 1866 — American Emerald / cordulie de Shurtleff
Dorocordulia lepida (Hagen in Sélys, 1871) — Petite Emerald
D. libera (Sélys, 1871) — Racket-tailed Emerald / cordulie écorcée
Epitheca canis (McLachlan, 1886) — Beaverpond Baskettail / épithèque canine
E. cynosura (Say, 1839) — Common Baskettail / épithèque à queue de beagle
E. princeps (Hagen, 1861) — Prince Baskettail / épithèque princière
E. semiaquea (Burmeister, 1839) — Mantled Baskettail
E. spinigera (Sélys, 1871) — Spiny Baskettail / épithèque épineuse
Helocordulia uhleri (Sélys, 1871) — Uhler's Sundragon / épithèque d'Uhler
Neurocordulia michaeli Brunelle, 2000 — Broad-tailed Shadowdragon
N. obsoleta (Say, 1839) — Umber Shadowdragon
N. yamaskanensis (Provancher, 1875) — Stygian Shadowdragon / épithèque de Provancher
Somatochlora albicincta (Burmeister, 1839) — Ringed Emerald / cordulie annelée
S. brevicincta Robert, 1954 — Québec Emerald / cordulie de Robert
S. cingulata Sélys, 1871 — Lake Emerald / cordulie ceinturée

S. elongata (Scudder, 1866) — Ski-tailed Emerald / cordulie alongée

- S. ensigera* Martin, 1906 — Plains Emerald
S. forcipata (Scudder, 1861) — Forcipate Emerald / cordulie fourchue
S. franklini (Sélys, 1861) — Delicate Emerald / cordulie de Franklin
S. budsonica (Hagen in Sélys, 1871) — Hudsonian Emerald
S. incurvata Walker, 1918 — Incurvate Emerald / cordulie incurvée
S. kennedyi Walker, 1918 — Kennedy's Emerald / cordulie de Kennedy
S. linearis (Hagen, 1861) — Mocha Emerald
S. minor Calvert, 1898 — Ocellated Emerald / cordulie mineure
S. sahlbergi Trybom, 1889 — Treeline Emerald
S. semicircularis (Sélys, 1871) — Mountain Emerald
S. septentrionalis (Hagen, 1861) — Muskeg Emerald / cordulie septentrionale
S. tenebrosa (Say, 1839) — Clamp-tipped Emerald / cordulie ténébreuse
S. walshii (Scudder, 1866) — Brush-tipped Emerald / cordulie de Walsh
S. whitehousei Walker, 1925 — Whitehouse's Emerald / cordulie de Whitehouse
S. williamsoni Walker, 1907 — Williamson's Emerald / cordulie de Williamson
Williamsonia fletcheri Williamson, 1923 — Ebony Boghaunter / cordulie bistrée
- Family LIBELLULIDAE** — Skimmers (45 species)
- Celithemis elisa* (Hagen, 1861) — Calico Pennant / célibème indienne
C. eponina (Drury, 1773) — Halloween Pennant / célibème géante
C. fasciata Kirby, 1889 — Banded Pennant
C. martha Williamson, 1922 — Martha's Pennant
Erythemis collocata (Hagen, 1861) — Western Pondhawk
E. simplicicollis (Say, 1839) — Eastern Pondhawk / érythème des étangs
Erythrodiplax berenice (Drury, 1770) — Seaside Dragonlet / érythrodiplax côtier
Ladona exusta (Say, 1839) — White Corporal
L. julia (Uhler, 1857) — Chalk-fronted Corporal / la julienne
Leucorrhinia borealis Hagen, 1890 — Boreal Whiteface
L. frigida Hagen, 1890 — Frosted Whiteface / leucorrhine frigide
L. glacialis Hagen, 1890 — Crimson-ringed Whiteface / leucorrhine glaciale

- L. budsonica* (Sélys, 1850) — Hudsonian Whiteface / leucorrhine hudsonienne
- L. intacta* (Hagen, 1861) — Dot-tailed Whiteface / leucorrhine mouchetée
- L. patricia* Walker, 1940 — Canada Whiteface / leucorrhine nordique
- L. proxima* Calvert, 1890 — Red-waisted Whiteface / leucorrhine apprivoisée
- Libellula forensis* Hagen, 1861 — Eight-spotted Skimmer
- L. incesta* Hagen, 1861 — Slaty Skimmer / la voluptueuse
- L. luctuosa* Burmeister, 1839 — Widow Skimmer / la mélancolique
- L. pulchella* Drury, 1770 — Twelve-spotted Skimmer / la gracieuse
- L. quadrimaculata* Linnaeus, 1758 — Four-spotted Skimmer / la quadrimaculée
- L. semifasciata* Burmeister, 1839 — Painted Skimmer
- L. vibrans* Fabricius, 1798 — Great Blue Skimmer
- Nannothemis bella* (Uhler, 1857) — Elfin Skimmer / nan-nothèque d'elfe
- Pachydiplex longipennis* (Burmeister, 1839) — Blue Dasher
- Pantala flavescens* (Fabricius, 1798) — Wandering Glider / pantale flavescente
- P. hymenaea* (Say, 1839) — Spot-winged Glider / pantale bimaculée
- Perithemis tenera* (Say, 1839) — Eastern Amberwing
- Plathemis lydia* (Drury, 1770) — Common Whitetail / la lydienne [6]
- Sympetrum ambiguum* (Rambur, 1842) — Blue-faced Meadowhawk
- S. corruptum* (Hagen, 1861) — Variegated Meadowhawk / sympétrum bagarreur
- S. costiferum* (Hagen, 1861) — Saffron-winged Meadowhawk / sympétrum rubigineux
- S. danae* (Sulzer, 1776) — Black Meadowhawk / sympétrum noir
- S. illotum* (Hagen, 1861) — Cardinal Meadowhawk
- S. internum* Montgomery, 1943 — Cherry-faced Meadowhawk / sympétrum intime
- S. madidum* (Hagen, 1861) — Red-veined Meadowhawk
- S. obtrusum* (Hagen, 1867) — White-faced Meadowhawk / sympétrum éclaireur
- S. occidentale occidentale* Bartenev, 1915 — Western Meadowhawk
- S. occidentale fasciatum* Walker 1951 — Western Meadowhawk
- S. pallipes* (Hagen, 1874) — Striped Meadowhawk
- S. rubicundulum* (Say, 1839) — Ruby Meadowhawk / sympétrum à dos roux
- S. semicinctum* (Say, 1839) — Band-winged Meadowhawk / sympétrum semi-ambré
- S. vicinum* (Hagen, 1861) — Autumn Meadowhawk / sympétrum tardif
- Tramea carolina* (Linnaeus, 1763) — Carolina Saddlebags
- T. lacerata* Hagen, 1861 — Black Saddlebags / traméa lacérée
- T. onusta* Hagen, 1861 — Red-mantled Saddlebags

Hybrids

With the exception of those species of *Somatochlora* noted below, hybrids are a generally rare occurrence in dragonflies. In addition to the hybrids reported from Canada, hybrids have been reported in the US for species that also occur in Canada including *Enallagma anna × carunculatum* (possibly equivalent to *E. opimoculus*, Westfall & May 1996; Miller & Ivie 1996), *Gomphus graslinellus × lividus* reported by Williamson (1906) *Ophiogomphus rupinsulensis × carolus* (Donnelly, pers. comm.) and *Sympetrum internum × obtrusum* (e.g. Donnelly 2004b).

Enallagma anna × civile (Donnelly 2000)

Enallagma carunculatum × civile (Catling, pers. obs.)

Enallagma ebrium × hageni (Catling 2001b)

Somatochlora albicincta × sahlbergi (Cannings & Cannings 1997)

Somatochlora budsonica × sahlbergi (Cannings & Cannings 1997)

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Table 1: Species Distribution by Province and Territory with Status Ranks

The thirteen provinces and territories are listed west to east (the three territories, which make up Canada north of 60°N, are listed after the provinces): BC—British Columbia; AB—Alberta; SK—Saskatchewan; MB—Manitoba; ON—Ontario; QC—Québec; NB—New Brunswick; NS—Nova Scotia; PE—Prince Edward Island; NF—Newfoundland and Labrador; YT—Yukon; NT—Northwest Territory; NU—Nunavut. With regard to geographic groupings, BC, AB and SK are included in western Canada. Central Canada includes MB and ON. Eastern Canada includes QC, NB, NS, PE and NF. Northern Canada includes YT, NT and NU.

A number in the column indicates that the species is reported from that province or territory. The numbers

represent the current general status categories (i.e. ranks) for the species generated by the National General Status Working Group (NGSWG) and approved by the Canadian Wildlife Directors Committee (2003) and indicate the species' conservation status. The latest evaluation occurred in November 2003. The codes are: 1—At Risk; 2—May Be At Risk; 3—Sensitive; 4—Secure; 5—Undetermined (usually further information is being sought); 6—Not Assessed; 7—Exotic (introduced); 8—Accidental (including migrants). An asterisk (*) indicates species with more than one subspecies in Canada; these subspecies are not ranked because infrataxa are not ranked by NSGSWG. See notes on subspecies preceding the list for additional information on these taxa.

Species	Canada			Western			Central			Eastern			Northern				
	BC	AB	SK	MB	ON	QC	NB	NS	PE	NF	YT	NT	NU				
Calopterygidae																	
<i>Calopteryx aequabilis</i>	4	1	5	4	4	4	4	4	4	5	-	-	-				
<i>C. amata</i>	4	-	-	-	-	4	4	4	-	-	-	-	-				
<i>C. maculata</i>	4	-	-	-	2	4	4	4	2	-	-	-	-				
<i>Hetaerina americana</i>	4	-	-	-	-	4	8	3	-	-	-	-	-				
<i>H. titia</i>	2	-	-	-	-	2	-	-	-	-	-	-	-				
Lestidae																	
<i>Archilestes grandis</i>	5	-	-	-	-	5	-	-	-	-	-	-	-				
<i>Lestes congener</i>	4	4	4	5	2	4	4	4	4	5	-	5	-				
<i>L. disjunctus</i>	4	4	4	4	4	4	4	4	4	4	4	4	4				
<i>L. dryas</i>	4	4	4	4	4	4	4	4	4	4	-	3	3				
<i>L. eurinus</i>	4	-	-	-	-	3	4	4	5	2	-	-	-				
<i>L. forcipatus</i>	4	4	5	5	5	4	4	3	5	2	-	6	6				
<i>L. inaequalis</i>	3	-	-	-	2	3	3	3	-	-	-	-	-				
<i>L. rectangularis</i>	4	-	-	-	3	4	4	3	4	-	-	-	-				
<i>L. unguiculatus</i>	4	4	4	4	4	4	4	2	4	4	5	-	-				
<i>L. vigilax</i>	3	-	-	-	-	3	2	3	5	-	-	-	-				
Coenagrionidae																	
<i>Amphiagrion abbreviatum</i>	4	4	3	5	-	-	-	-	-	-	-	-	-				
<i>A. saucium</i>	4	-	-	-	2	3	4	3	4	-	-	-	-				
<i>Argia apicalis</i>	4	-	-	-	-	4	-	-	-	-	-	-	-				
<i>A. emma</i>	3	3	-	-	-	-	-	-	-	-	-	-	-				
<i>A. fumipennis violacea</i>	4	-	-	6	-	4	4	4	4	-	-	-	-				
<i>A. moesta</i>	4	-	-	-	-	4	4	4	4	-	-	-	-				
<i>A. sedula</i>	2	-	-	-	-	2	-	-	-	-	-	-	-				
<i>A. tibialis</i>	3	-	-	-	-	3	-	-	-	-	-	-	-				
<i>A. translata</i>	2	-	-	-	-	2	-	-	-	-	-	-	-				
<i>A. vividia</i>	3	2	3	-	-	-	-	-	-	-	-	-	-				
<i>Chromagrion conditum</i>	4	-	-	-	2	4	4	4	4	2	-	-	-				
<i>Coenagrion angulatum</i>	4	4	4	4	3	2	-	-	-	-	-	5	-				
<i>C. interrogatum</i>	4	4	4	5	5	4	4	3	5	-	5	4	5	-			

Table 1 continued . . .

Species	Canada	Western			Central		Eastern		Northern					
		BC	AB	SK	MB	ON	QC	NB	NS	PE	NF	YT	NT	NU
<i>C. resolutum</i>	4	4	4	4	4	4	4	4	2	3	4	4	4	-
<i>Enallagma anna</i>	3	-	3	6	-	3	-	-	-	-	-	-	-	-
<i>E. antennatum</i>	4	-	-	6	-	4	4	-	-	-	-	-	-	-
<i>E. aspersum</i>	4	-	-	-	-	3	3	5	4	2	-	-	-	-
<i>E. basidens</i>	3	-	-	-	-	3	-	-	-	-	-	-	-	-
<i>E. boreale</i>	4	4	4	4	4	4	4	4	4	3	4	4	4	-
<i>E. carunculatum</i>	4	4	3	5	3	4	4	2	5	2	-	-	-	-
<i>E. civile</i>	4	2	-	5	4	4	3	4	4	3	4	-	-	-
<i>E. clausum</i>	4	4	5	4	2	2	3	-	-	-	-	-	-	-
<i>E. cyathigerum</i>	4	4	4	5	4	3	4	4	5	4	5	4	4	-
<i>E. ebrium</i>	4	4	4	5	4	4	4	4	4	4	4	6	6	-
<i>E. exsulans</i>	4	-	-	-	-	4	4	4	4	-	-	-	-	-
<i>E. geminatum</i>	4	-	-	-	-	4	4	5	-	-	-	-	-	-
<i>E. hageni</i>	4	3	4	5	4	4	4	4	4	4	-	-	6	-
<i>E. minusculum</i>	3	-	-	-	-	-	-	2	3	2	-	-	-	-
<i>E. signatum</i>	4	-	-	-	-	4	4	2	5	-	-	-	-	-
<i>E. traviatum westfalli</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>E. vernale</i>	5	-	-	-	-	3	4	-	5	-	-	-	-	-
<i>E. vesperum</i>	4	-	-	-	-	4	4	2	5	-	-	-	-	-
<i>Ischnura cervula</i>	4	4	3	5	-	-	-	-	-	-	-	-	-	-
<i>I. damula</i>	3	2	3	5	2	-	-	-	-	-	-	6	-	-
<i>I. erratica</i>	4	4	-	-	-	-	-	-	-	-	-	-	-	-
<i>I. hastata</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>I. kellicotti</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>I. perparva</i>	4	4	3	6	2	-	-	-	-	-	-	-	-	-
<i>I. posita</i>	4	-	-	-	5	4	4	2	4	-	5	-	-	-
<i>I. verticalis</i>	4	-	5	5	4	4	4	4	4	4	4	-	-	-
<i>Nehalennia gracilis</i>	4	-	-	-	-	3	4	4	5	2	-	-	-	-
<i>N. irene</i>	4	4	4	4	4	4	4	4	4	4	5	6	2	-

ANISOPTERA**Petaluridae***Tanypteryx hageni*

Aeshnidae														
<i>Aeshna canadensis</i>	4	4	4	4	4	4	4	4	4	4	5	2	6	-
<i>A. clepsydra</i>	4	-	-	-	-	3	3	3	4	-	-	-	-	-
<i>A. constricta</i>	4	2	3	4	4	4	4	4	5	3	-	-	-	-
<i>A. eremita</i>	4	4	4	4	4	4	4	4	4	3	4	4	4	-
<i>A. interrupta*</i>	4	4	4	4	4	4	4	4	4	4	4	4	4	-
<i>A. juncea</i>	4	4	4	4	5	3	4	2	-	-	4	4	4	5
<i>A. palmata</i>	4	4	4	5	-	-	-	-	-	-	-	3	-	A.
<i>septentrionalis</i>	4	4	5	5	5	2	3	-	5	-	5	4	4	-
<i>A. sitchensis</i>	4	4	4	4	4	4	4	3	4	-	4	4	5	5
<i>A. subarctica</i>	4	4	5	4	3	2	4	3	4	2	5	4	3	-
<i>A. tuberculifera</i>	4	3	5	6	2	4	4	4	4	3	-	-	-	-
<i>A. umbrosa*</i>	4	4	4	4	4	4	4	4	4	4	4	2	3	-
<i>A. verticalis</i>	4	-	-	-	6	2	3	4	4	-	-	-	-	-
<i>Anax junius</i>	4	4	4	4	4	4	4	4	4	4	-	-	-	-

Table 1 continued . . .

Species	Canada	Western			Central		Eastern		Northern					
		BC	AB	SK	MB	ON	QC	NB	NS	PE	NF	YT	NT	NU
<i>A. longipes</i>	8	-	-	-	-	8	-	8	-	-	-	-	-	-
<i>Basiaeschna janata</i>	4	-	-	6	2	4	4	4	4	2	-	-	-	-
<i>Boyeria grafiana</i>	4	-	-	-	-	3	4	4	5	5	-	-	-	-
<i>B. vinosa</i>	4	-	-	-	2	4	4	4	4	5	-	-	-	-
<i>Epiaeschna heros</i>	3	-	-	-	-	3	3	5	-	-	-	-	-	-
<i>Gomphaeschna furcillata</i>	2	-	-	-	-	2	2	5	2	-	-	-	-	-
<i>Nasiaeschna pentacantha</i>	3	-	-	-	-	3	2	5	-	-	-	-	-	-
<i>Rhionaeschna californica</i>	4	4	-	-	-	-	-	-	-	-	-	-	-	-
<i>R. multicolor</i>	4	4	5	5	-	-	-	-	-	-	-	-	-	-
<i>R. mutata</i>	2	-	-	-	-	2	-	-	6	-	-	-	-	-
Gomphidae														
<i>Arigomphus cornutus</i>	3	-	-	-	2	3	3	-	-	-	-	-	-	-
<i>A. furcifer</i>	3	-	-	-	-	3	3	5	-	-	-	-	-	-
<i>A. villosipes</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>Dromogomphus spinosus</i>	4	-	-	-	2	4	4	4	4	-	-	-	-	-
<i>D. spoliatus</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>Gomphus abbreviatus</i>	2	-	-	-	-	-	-	-	2	6	-	-	-	-
<i>G. adelphus</i>	4	-	-	-	-	3	4	4	4	-	-	-	-	-
<i>G. borealis</i>	4	-	-	-	-	2	4	4	4	-	-	-	-	-
<i>G. descriptus</i>	4	-	-	-	-	3	4	3	3	-	-	-	-	-
<i>G. exilis</i>	4	-	-	-	2	4	4	4	4	-	-	-	-	-
<i>G. externus</i>	2	-	-	-	2	-	-	-	-	-	-	-	-	-
<i>G. fraternus*</i>	4	-	-	-	3	3	4	-	-	-	-	-	-	-
<i>G. gracilis</i>	4	2	8	5	2	2	-	-	-	-	-	-	-	-
<i>G. lividus</i>	4	-	-	-	-	4	3	-	-	-	-	-	-	-
<i>G. quadricolor</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>G. spicatus</i>	4	-	-	-	2	4	4	4	4	2	-	-	-	-
<i>G. vastus</i>	4	-	-	-	2	2	4	3	-	-	-	-	-	-
<i>G. ventricosus</i>	2	-	-	-	-	2	2	2	2	-	-	-	-	-
<i>G. viridifrons</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>Hagenius brevistylus</i>	4	-	-	-	4	4	4	4	4	-	-	-	-	-
<i>Lanthus parvulus</i>	4	-	-	-	-	-	4	4	3	-	-	-	-	-
<i>Octogomphus specularis</i>	2	2	-	-	-	-	-	-	-	-	-	-	-	-
<i>Ophiogomphus anomalus</i>	3	-	-	-	-	2	2	3	-	-	-	-	-	-
<i>O. aspersus</i>	4	-	-	-	-	-	4	4	2	-	-	-	-	-
<i>O. carolus</i>	4	-	-	-	-	2	4	4	4	-	-	-	-	-
<i>O. colubrinus</i>	4	4	4	4	4	3	4	2	-	5	6	2	-	-
<i>O. howei</i>	2	-	-	-	-	-	-	2	-	-	-	-	-	-
<i>O. mainensis mainensis</i>	4	-	-	-	-	2	4	4	2	-	-	-	-	-
<i>O. occidentis</i>	4	4	-	-	-	-	-	-	-	-	-	-	-	-
<i>O. rupinsulensis</i>	4	-	-	4	2	3	4	4	2	-	-	-	-	-
<i>O. severus*</i>	4	4	4	4	-	-	-	-	-	-	-	-	-	-
<i>Progomphus obscurus</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>Stylogomphus albistylus</i>	4	-	-	-	-	3	4	4	4	-	-	-	-	-
<i>Stylurus amnicola</i>	3	-	-	-	6	2	3	-	-	-	-	-	-	-
<i>S. intricatus</i>	3	-	3	5	-	-	-	-	-	-	-	-	-	-
<i>S. laurae</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>S. notatus</i>	4	-	-	6	2	2	4	-	-	-	-	-	-	-

Table 1 continued . . .

Species	Canada	Western			Central		Eastern		Northern					
		BC	AB	SK	MB	ON	QC	NB	NS	PE	NF	YT	NT	NU
<i>S. olivaceus</i>	2	1	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. plagiatus</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>S. scudderri</i>	4	-	-	-	-	3	4	3	5	-	-	-	-	-
<i>S. spiniceps</i>	4	-	-	-	-	2	4	-	-	-	-	-	-	-
Cordulegastridae														
<i>Cordulegaster diastatops</i>	4	-	-	-	-	3	4	4	4	-	-	-	-	-
<i>C. dorsalis</i>	4	4	-	-	-	-	-	-	-	-	-	-	-	-
<i>C. maculata</i>	4	-	-	-	2	4	4	4	4	3	-	-	-	-
<i>C. obliqua</i>	4	-	-	-	-	2	3	-	-	-	-	-	-	-
Macromiidae														
<i>Didymops transversa</i>	4	-	-	-	2	4	4	4	4	-	-	-	-	-
<i>Macromia illinoiensis</i>														
<i>illinoiensis</i>	4	-	-	-	2	4	4	4	4	-	-	-	-	-
<i>M. magnifica*</i>	3	3	-	-	-	-	-	-	-	-	-	-	-	-
<i>M. taeniola</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
Corduliidae														
<i>Cordulia shurtleffi</i>	4	4	4	4	4	4	4	4	4	4	4	4	4	-
<i>Dorocordulia lepida</i>	4	-	-	-	-	-	-	3	4	2	-	-	-	-
<i>D. libera</i>	4	-	-	-	2	4	4	4	4	2	-	-	-	-
<i>Epitheca canis</i>	4	3	5	5	3	4	4	4	4	4	-	-	-	-
<i>E. cynosura</i>	4	-	-	-	2	4	4	5	5	-	-	-	-	-
<i>E. princeps</i>	4	-	-	-	-	4	4	4	3	-	-	-	-	-
<i>E. semiaquea</i>	5	-	-	-	-	-	-	5	5	-	-	-	-	-
<i>E. spinigera</i>	4	4	4	4	4	4	4	4	4	2	-	-	-	-
<i>Helocordulia uhleri</i>	4	-	-	-	-	3	4	4	4	-	-	-	-	-
<i>Neurocordulia michaeli</i>	3	-	-	-	-	6	-	3	-	-	-	-	-	-
<i>N. obsoleta</i>	2	-	-	-	-	-	-	2	-	-	-	-	-	-
<i>N. yamaskanensis</i>	4	-	-	-	-	4	3	2	-	-	-	-	-	-
<i>Somatochlora albicincta</i>	4	4	4	4	5	3	4	4	2	-	5	4	5	-
<i>S. brevicincta</i>	3	2	-	-	-	-	3	2	5	-	5	-	-	-
<i>S. cingulata</i>	4	4	3	4	5	3	4	4	4	2	4	-	-	-
<i>S. elongata</i>	4	-	-	-	-	3	4	4	4	3	-	-	-	-
<i>S. ensigera</i>	2	-	-	5	2	2	-	-	-	-	-	-	-	-
<i>S. forcipata</i>	4	2	3	6	2	2	4	3	5	6	5	-	2	-
<i>S. franklini</i>	4	4	4	5	4	4	4	3	5	2	5	3	5	-
<i>S. hudsonica</i>	4	4	4	5	5	2	-	-	-	-	-	4	4	-
<i>S. incurvata</i>	4	-	-	-	-	2	2	4	4	2	-	-	-	-
<i>S. kennedyi</i>	4	2	5	6	3	3	4	4	5	2	5	2	4	-
<i>S. linearis</i>	2	-	-	-	-	2	-	-	-	-	-	-	-	-
<i>S. minor</i>	4	4	4	4	5	3	4	4	4	2	5	3	6	-
<i>S. sahlbergi</i>	3	-	-	-	-	-	-	-	-	-	-	3	2	-
<i>S. semicircularis</i>	4	4	4	-	-	-	-	-	-	-	-	2	-	-
<i>S. septentrionalis</i>	4	3	3	-	5	3	4	2	3	-	5	2	5	-
<i>S. tenebrosa</i>	3	-	-	-	-	2	3	5	3	-	-	-	-	-
<i>S. walshii</i>	4	4	3	5	2	3	4	4	4	2	4	-	-	-
<i>S. whitehousei</i>	4	4	4	4	5	2	3	-	-	5	2	-	-	-

Table 1 continued . . .

Species	Canada	Western			Central		Eastern		Northern				
		BC	AB	SK	MB	ON	QC	NB	NS	PE	NF	YT	NT
<i>S. williamsoni</i>	4	-	-	5	2	3	4	4	2	2	-	-	-
<i>Williamsonia fletcheri</i>	3	-	-	-	2	2	2	3	2	-	-	-	-
Libellulidae													
<i>Celithemis elisa</i>	4	-	-	-	-	4	3	4	4	2	-	-	-
<i>C. eponina</i>	3	-	-	-	-	3	8	-	-	-	-	-	-
<i>C. fasciata</i>	5	-	-	-	-	5	-	-	-	-	-	-	-
<i>C. martha</i>	5	-	-	-	-	-	-	-	5	-	-	-	-
<i>Erythemis collocata</i>	3	3	-	-	-	-	-	-	-	-	-	-	-
<i>E. simplicicollis</i>	4	-	-	-	-	4	2	-	-	-	-	-	-
<i>Erythrodiplax berenice</i>	2	-	-	-	-	-	2	-	2	-	-	-	-
<i>Ladona exusta</i>	4	-	-	-	-	-	-	5	4	-	-	-	-
<i>L. julia</i>	4	4	4	5	4	4	4	4	4	3	-	-	-
<i>Leucorrhinia borealis</i>	4	4	4	4	3	2	-	-	-	-	4	4	-
<i>L. frigida</i>	4	-	-	-	3	4	4	4	4	2	-	-	-
<i>L. glacialis</i>	4	4	3	4	3	4	4	4	4	3	5	-	-
<i>L. hudsonica</i>	4	4	4	4	4	4	4	4	4	4	5	4	4
<i>L. intacta</i>	4	4	4	4	4	4	4	4	4	3	-	-	-
<i>L. patricia</i>	4	4	-	4	5	3	4	2	5	-	-	3	5
<i>L. proxima</i>	4	4	4	4	4	4	4	4	4	4	5	4	4
<i>Libellula forensis</i>	4	4	-	-	-	-	-	-	-	-	-	-	-
<i>L. incesta</i>	4	-	-	-	-	4	3	4	4	-	-	-	-
<i>L. luctuosa</i>	4	-	-	-	8	4	3	-	5	-	-	-	-
<i>L. pulchella</i>	4	3	4	4	4	4	4	4	4	-	-	-	-
<i>L. quadrimaculata</i>	4	4	4	4	4	4	4	4	4	4	4	4	4
<i>L. semifasciata</i>	2	-	-	-	-	2	-	5	-	-	-	-	-
<i>L. vibrans</i>	2	-	-	-	-	2	-	-	-	-	-	-	-
<i>Nannothemis bella</i>	4	-	-	-	-	3	3	3	4	-	-	-	-
<i>Pachydiplax longipennis</i>	4	3	5	-	2	4	-	5	-	-	-	-	-
<i>Pantala flavescens</i>	4	-	8	-	8	4	4	4	4	2	8	-	-
<i>P. hymenaea</i>	4	8	-	-	8	4	4	4	4	-	-	-	-
<i>Perithemis tenera</i>	3	-	-	-	-	3	-	-	-	-	-	-	-
<i>Plathemis lydia</i>	4	4	-	-	2	4	4	4	4	4	-	-	-
<i>Sympetrum ambiguum</i>	8	-	-	-	-	8	-	-	-	-	-	-	-
<i>S. corruptum</i>	4	4	4	4	4	3	2	-	5	8	-	-	-
<i>S. costiferum</i>	4	4	4	4	4	4	4	4	4	4	5	-	3
<i>S. danae</i>	4	4	4	4	4	4	4	4	4	2	4	4	5
<i>S. illotum</i>	4	4	-	-	-	-	-	-	-	-	-	-	-
<i>S. internum</i>	4	4	4	4	4	4	4	4	5	4	4	5	4
<i>S. madidum</i>	4	4	5	4	2	-	-	-	-	-	-	2	5
<i>S. obtrusum</i>	4	4	4	4	4	4	4	4	4	4	-	6	5
<i>S. occidentale*</i>	4	4	4	6	2	4	-	-	-	-	-	-	-
<i>S. pallipes</i>	4	4	4	5	-	-	-	-	-	-	-	-	-
<i>S. rubicundulum</i>	4	-	-	-	-	4	4	5	5	5	-	-	-
<i>S. semicinctum</i>	4	-	-	-	-	4	4	4	4	3	-	-	-
<i>S. vicinum</i>	4	3	-	-	5	4	4	4	4	4	-	-	-
<i>Tramea carolina</i>	5	-	-	-	-	5	-	-	5	-	-	-	-
<i>T. lacerata</i>	4	8	-	-	-	4	8	-	-	-	-	-	-
<i>T. onusta</i>	8	-	-	-	-	5	-	-	-	-	-	-	-

References

- Acorn, J. 2004. Damselflies of Alberta: Flying neon tooth-picks in the grass. University of Alberta Press, Edmonton. 156 pp.
- Beukeboom, L.W. and M.T. Wasscher. 1986. Odonata collected in Canada in 1983. Notulae Odonatologicae 2(8): 129–131.
- Bridgehouse, D.W. 2001. Occurrence of *Celithemis martha* (Odonata) in Nova Scotia. Northeastern Naturalist 8(4): 495–498.
- Brunelle, P.M. 1997. Distribution of dragonflies and damselflies (Odonata) of the Atlantic Provinces, Canada. Northeastern Naturalist 4(2): 61–82.
- Brunelle, P.M. 1998. *Somatochlora brevicincta* in New Brunswick and Nova Scotia. Argia 9(4): 5.
- Brunelle, P.M. 1999. Additions to the lists of dragonflies (Odonata: Anisoptera) of the Atlantic Provinces, Canada. Northeastern Naturalist 6(1): 35–38.
- Brunelle, P.M. 2000a. Distribution of dragonflies and damselflies (Odonata) of Cape Breton Island, Nova Scotia, Canada. Parks Canada Techn. Report in Ecosystem Science No. 24: pp. iv + 52.
- Brunelle, P.M. 2000b. A new species of *Neurocordulia* (Odonata: Anisoptera: Corduliidae) from eastern North America. The Canadian Entomologist 132: 39–48.
- Brunelle, P.M. 2001. Status of *Somatochlora brevicincta* (Odonata: Corduliidae), the Québec emerald, in North America. International Dragonfly Fund Report 3(1/2): 1–8.
- Buidin, C. 2001. Première mention d' *Sympetrum (Sympetrum) semicinctum* (Odonata: Libellulidae) pour la Côte-Nord du Saint-Laurent. Fabreries 26(2): 82.
- Buidin, C. 2003. Première mention d' *Aeshna canadensis* Walker (Odonata: Aeshnidae) à l'île d'Anticosti. Fabreries 28(1): 50.
- Burke, P. 1996. New records from near Lakefield, Ontario. Argia 8(2): 5.
- Canadian Endangered Species Conservation Council. 2004. Wild species: general status of species in Canada—new ranks for odonates. On Internet at <http://www.especies-sauvages.ca/dragonflies.cfm?lang=3De>.
- Cannings, R.A. 1978. The distribution of *Tanypteryx hageni* Selys (Odonata: Petaluridae) in British Columbia. Journal of the Entomological Society of British Columbia 75: 18–19.
- Cannings, R.A. 1980a. Some Odonata from the Crowsnest Pass region, Alberta, Canada. Notulae Odonatologicae 1: 88–89.
- Cannings, R.A. 1980b. New distributional records of Odonata from the Province of Newfoundland, Canada. Notulae Odonatologicae 1(5): 88.
- Cannings, R.A. 1980c. Ecological notes on *Sympetrum madidum* (Hagen) in British Columbia, Canada (Anisoptera: Libellulidae). Notulae Odonatologicae 1(6): 97–99.
- Cannings, R.A. 1982. Notes on the biology of *Aeshna sitchensis* Hagen (Anisoptera: Aeshnidae). Odonatologica 11(3): 219–223.
- Cannings, R.A. 1983. *Libellula subornata* (Odonata: Libellulidae) in Canada. Journal of the Entomological Society of British Columbia 80: 54–55.
- Cannings, R.A. 1984. Noteworthy Odonata collected by participants in the Seventh International Symposium of Odonatology. Notulae Odonatologicae 2(4): 53–55.
- Cannings, R.A. 1987. Dragonflies in the western Chilcotin. Walkeria 2(2): 6–7.
- Cannings, R.A. 1988. *Pantala hymenaea* (Say) new to British Columbia, Canada, with notes on its status in the northwestern United States (Anisoptera: Libellulidae). Notulae Odonatologicae 3:31–32.
- Cannings, R.A. 1989. *Enallagma basidens* Calvert, a dragonfly new to Canada, with notes on the expansion of its range in North America (Zygoptera: Coenagrionidae). Notulae Odonatologicae 3(4): 49–64.
- Cannings, R.A. 1996. The Blue Darners: dragonflies of the genus *Aeshna* in British Columbia. Cordillera 3 (1): 28–38. also on the Internet at http://www.royalbcmuseum.bc.ca/nh_papers/aeshna.html, with the associated field key linked at http://www.royalbcmuseum.bc.ca/nh_papers/aeshna_key/dragonfl.html
- Cannings, R.A. 1997. *Tramea lacerata* (Hagen) new to British Columbia, Canada, with notes on its status in the northwestern United States (Anisoptera: Libellulidae). Notulae Odonatologicae 4:148–149.

- Cannings, R.A. 2000. Dragons and Damsels in the Columbia—Kootenay Region. *Boreus* 20(2): 9–10.
- Cannings, R.A. 2000. Dragons and damsels in the Kootenays. Royal British Columbia Museum Discovery 28(2): 1–2.
- Cannings, R.A. 2001. The dragonflies of the Columbia Basin, BC. Research Links (Parks Canada) 9(1): 4–5, 10.
- Cannings, R.A. 2002a. Rare dragonflies of British Columbia. Wildlife at Risk in British Columbia brochure. British Columbia Ministry of Sustainable Resource Management and Ministry of Water, Land and Air Protection, Victoria, B.C. 6 pp.
- Cannings, R.A. 2002b. Introducing the dragonflies of British Columbia and the Yukon. Royal British Columbia Museum, Victoria, British Columbia. 96 pp.
- Cannings, R.A. 2004. Resources for the study of the Odonata in Canada. Newsletter of the Biological Survey of Canada (Terrestrial Arthropods) 23 (1): 25–33.
- Cannings, R.A. and S.G. Cannings. 1983a. Odonata collected in Banff National Park, Alberta, Canada, during the Seventh International Symposium of Odonatology. *Notulae Odonatologicae* 2: 23–24.
- Cannings, R.A. and S.G. Cannings. 1983b. The Odonata of the Brooks Peninsula, Vancouver Island, British Columbia. *Journal of the Entomological Society of British Columbia* 80: 46–51.
- Cannings, R.A. and S.G. Cannings. 1987. The Odonata of some saline lakes in British Columbia, Canada: ecological distribution and biogeography. *Advances in Odonatology* 3: 7–22.
- Cannings, R.A. and S.G. Cannings. 1998. Odonata (Damselflies and Dragonflies) in Smith, I.M., and G.G.E. Scudder, eds. Assessment of species diversity in the Montane Cordillera Ecozone. Burlington: Ecological Monitoring and Assessment Network. http://www.naturewatch.ca/eman/reports/publications/99_montane/odonata/odonata03.html
- Cannings, R.A. and S.G. Cannings. 2000. Post Meeting Field Trip, Annual Meeting of the Dragonfly Society of the Americas, 27 July–1 August 2000, British Columbia. *Argia* 12(3): 6–7.
- Cannings, R.A. and S.G. Cannings. 2004. The Odonata (Damselflies and Dragonflies)
- of the Montane Cordillera Ecozone. http://www.nature-watch.ca/eman/reports/publications/99_montane/odonata/intro.html
- Cannings, R.A., S.G. Cannings and R.J. Cannings. 1980. The distribution of the genus *Lestes* in a saline lake series in British Columbia, Canada. *Odonatologica* 9: 19–28.
- Cannings, R.A., S.G. Cannings and L.R. Ramsay. 2000. The dragonflies (Insecta: Odonata) of the Columbia Basin, British Columbia: field surveys, collections development and public education. Unpublished report, Royal B.C. Museum and British Columbia Conservation Data Centre, Victoria. Also on Internet at http://livinglandscapes.bc.ca/www_dragon/toc.html.
- Cannings, R.A., S.G. Cannings, L.R. Ramsay and G.E. Hutchings. 2004. Four species of Odonata new to British Columbia, Canada. *Notulae Odonatologicae* 6(5). In Press.
- Cannings, R.A., L.R. Ramsay and S.G. Cannings. 2004. The dragonflies (Insecta: Odonata) of Northern British Columbia: field surveys, collections development and public education. Report to the Habitat Conservation Trust Fund. Royal British Columbia Museum and BC Ministry of Sustainable Resource Management, Victoria, BC.
- Cannings, R.A. and K.M. Stuart. 1977. The dragonflies of British Columbia. British Columbia Prov. Museum Handbook No. 35. Victoria. 254 pp.
- Cannings, R.J., D. St. John, and G.E. Hutchings. 1998. A survey of rare dragonflies and damselflies (Odonata) in the Okanagan and Similkameen Valleys. Unpubl. rep. submitted to Resources Inventory Branch, B.C. Ministry of Environment, Lands and Parks, Victoria.
- Cannings, S.G. 1980. New distributional records of Odonata from northwestern British Columbia. *Sysis* 13: 13–15.
- Cannings, S.G. and R.A. Cannings. 1985. The larva of *Somatochlora sahlbergi* Trybom, with notes on the species in the Yukon Territory, Canada (Anisoptera: Corduliidae). *Odonatologica* 14:319–330.
- Cannings, S.G., R.A. Cannings, and R.J. Cannings. 1991. The distribution of the dragonflies (Insecta: Odonata) of the Yukon Territory, Canada, with notes on ecology and behaviour. Royal British Columbia Museum Contributions to Natural Science 13: 1–26.
- Cannings, S.G. and R.A. Cannings. 1994. The Odonata of

- the northern cordilleran peatlands of North America. Memoirs of the Entomological Society of Canada 169: 89–110.
- Cannings, S.G. and R.A. Cannings. 1997. Dragonflies (Odonata) of the Yukon. Pp. 169–200 in H.V. Danks and J.A. Downes (Eds.), Insects of the Yukon. Biological Survey of Canada (Terrestrial Arthropods) Monograph series no. 2. Ottawa. 1034 pp.
- Carle, F.L. 1993. *Sympetrum janeae* spec. nov. from eastern North America, with a key to nearctic *Sympetrum* spp. (Anisoptera: Libellulidae). Odonatologica 22(1): 1–16.
- Catling, P.M. 1999a. Maine Snaketail (*Ophiogomphus mainensis*), new to Ontario. Argia 11(3): 9.
- Catling, P.M. 1999b. Notes on *Enallagma traviatum westfalli* in Ontario. Argia 11(1): 26–27.
- Catling, P.M. 2001a. Decline of *Gomphus fraternus fraternus* (Odonata: Gomphidae) in Lake Erie. Great Lakes Entomologist 34(1): 1–7.
- Catling, P.M. 2001b. Morphological evidence for the hybrid *Enallagma ebrium* × *hageni* (Zygoptera: Coenagrionidae) from Ontario. Proceedings of the Entomological Society of Ontario 132: 99–101.
- Catling, P.M. 2002a. Pygmy Snaketail (*Ophiogomphus howei*) new to Canada. Argia 14(3): 11–12.
- Catling, P.M. 2002b. Checklist of Ontario Odonata. Pp. 33–35 in P.M. Catling, C.D. Jones and P. Pratt, eds. Ontario Odonata Vol.3. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Catling, P.M. 2003. The Austral Spreadwing, *Lestes australis*, in Ontario. Ontario Odonata 4: 18–22.
- Catling, P.M. and V.R. Brownell. 2000. Damselflies and dragonflies (Odonata) of Ontario: resource guide and annotated list. Published privately. 198 pp.
- Catling, P.M. and V.R. Brownell. 2002. A preliminary assessment of changes in status of Ontario dragonflies since Walker's published survey in 1941. Pp. 36–48 in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 3. Toronto Entomologists Association, Toronto, Canada.
- Catling, P.M. and V.R. Brownell. 2002. Large numbers of *Aeshna interrupta* in southeastern Saskatchewan. Argia 13(4): 7.
- Catling, P.M., V. Brownell and P. Pratt. 1999. Riverine Clubtail (*Stylurus amnicola*) new to Ontario. Argia 11(3): 9–10.
- Catling, P.M., V.R. Brownell and P. Pratt. 2001. Range expansion of Double Striped Bluet, *Enallagma basidens* in Ontario. Pp. 10–13 in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 2. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Catling, P.M., S. Carriere, D. Johnson and M. Fournier. 2004. Dragonflies of the Northwest Territories, Canada: New records, ecological observations and a checklist. Argia 16(1): 9–13.
- Catling, P.M. and C.H. Catling. 1999. Laura's Clubtail (*Stylurus laurae*) new to Canada. Argia 11(3): 10–11.
- Catling, P.M., C.D. Jones and P. Pratt, eds. 2000. Ontario Odonata, Vol. 1 (including 1999 observations). Toronto Entomologists' Association, Toronto, Ontario, Canada. 153 pp.
- Catling, P.M., C.D. Jones and P. Pratt, eds. 2001. Ontario Odonata, Vol. 2 (including observations for the year 2000). Toronto Entomologists' Association, Toronto, Ontario, Canada. 186 pp.
- Catling, P.M., C.D. Jones and P. Pratt, eds. 2002. Ontario Odonata, Vol. 3 (including observations for the year 2001). Toronto Entomologists' Association, Toronto, Ontario, Canada. 208 pp.
- Catling, P.M., C.D. Jones and P. Pratt, eds. 2004. Ontario Odonata, Vol. 4 (including observations for the year 2002). Toronto Entomologists' Association, Toronto, Ontario, Canada. 216 pp.
- Catling, P.M., C.D. Jones and P. Pratt, eds. 2004. Ontario Odonata, Vol. 5 (including observations for the year 2004). Toronto Entomologists' Association, Toronto, Ontario, Canada. In press.
- Catling, P.M. and B. Kostiuk. 2004. Three additions to the Odonata of Saskatchewan, and some notable records. Argia 16(3): 18–20.
- Catling, P.M., M.J. Oldham, C.D. Jones, R. Oldham, J.J. Dombrowskie and B. Kostiuk. 2004. Broad-tailed Shadowdragon, *Neurocordulia michaeli* Brunelle, new to Ontario. Argia 16(3): 13–16.
- Donnelly, T.W. 1973. The status of *Enallagma traviatum* and *westfalli* (Odonata: Coenagrionidae). Proceedings of the

- Entomological Society of Washington 75(3): 297–302.
- Donnelly, T.W. 1995. Odonates around the Country—it's been a rewarding season. *Argia* 7(3) : 14-18.
- Donnelly, T.W. 1998. *Enallagma cyathigerum* and *vernale*: species, subspecies, hybrids, all of the above, or none of the above? You be the judge. *Argia* 10(1): 20–22.
- Donnelly, N. 2000. Hybrid *Enallagma anna* and *civile* from Ontario and Iowa! *Argia* 12(4): 8.
- Donnelly, T.W. 2003. *Lestes disjunctus*, *forcipatus* and *australis*: a confusing complex of North American dragonflies. *Argia* 15(3): 10–13.
- Donnelly, T.W. 2004a. Distribution of North American Odonata. Part I: Aeshnidae, Petaluridae, Gomphidae, Cordulegastridae. *Bulletin of American Odonatology* 7(4): 61–90.
- Donnelly, T.W. 2004b. Distribution of North American Odonata. Part II: Macromiidae, Corduliidae, Libellulidae. *Bulletin of American Odonatology* 8(1): 1–32.
- Donnelly, T.W. 2004c. Distribution of North American Odonata. Part III: Calopterygidae, Lestidae, Coenagrionidae, Protoneuridae, Platystictidae, with data on sources and bibliography, parts I–III. *Bulletin of American Odonatology* 8(2&3): 33–99.
- Donnelly, T.W. 2004d. *Erythemis simplicicollis* and *collocata* —subspecies? *Argia* 15(4): 11–12.
- Donnelly, T.W., and K.J. Tennessen. 1994. *Macromia illinoiensis* and *georgiana*: a study of their variation and apparent subspecific relationship (Odonata: Corduliidae). *Bulletin of American Odonatology* 2(3): 27–61.
- Garrison, R.W. 1991. A synonymic list of the New World Odonata. *Argia* 3(2): 1–30.
- Giberson, D.J., and M. Dobrin. 2000. Dragonflies and damselflies of Prince Edward Island National Park. Department of Biology, University of Prince Edward Island, Charlottetown: 30 pp.
- Giberson, D.J., and M. Dobrin. 2000. Dragonflies and damselflies of Prince Edward Island National Park: species composition, distribution, and seasonal patterns of dragonflies and damselflies of Prince Edward Island National Park: a report prepared for Parks Canada under the Ecosystem Science Fund Program. Unpublished report by the Biology Department, University of Prince Edward Island, Charlottetown: 25 pp.
- Guppy, C.S. and G.E. Hutchings. 1990. Observations on *Somatochlora cingulata* (Selys) at Arthur Lake, British Columbia. *Walkeria*, 5(2): 4.
- Harding, R.W. 2001. *Enallagma aspersum* in Prince Edward Island. *Argia* 13(2): 2–3.
- Hellebuyck, V. 1993. Confirmation of *Enallagma civile* (Hagen) (Odonata: Zygoptera) in southern Québec. *Argia* 5(3): 9–10.
- Hilton, D.F. 1985. Dragonflies (Odonata) of Cypress Hills Provincial Park, Alberta and their biogeographic significance. *The Canadian Entomologist* 117: 1127–1136.
- Hilton, D.F.J. 1987. Aquatic insects of peatlands and marshes in Canada. *Memoirs of the Entomological Society of Canada* 140: 57–63.
- Hilton, D.F.J. 1990. The Odonata of the province of Prince Edward Island, Canada. *Notulae Odonatologicae* 3(5): 65–80.
- Hilton, D.F.J. 1992. Odonata from the Magdalen Islands, Quebec, Canada. *The Canadian Entomologist* 111(2): 102–108.
- Holder, M. 1996. The dragonflies and damselflies of Algonquin Provincial Park. *Algonquin Park Technical Bulletin* 11: 40 pp.
- Holder, M. and A. Kingsley. 2000. Summer 2000 peatland Odonate surveys in New Brunswick and Nova Scotia, Canada. *Argia* 13(1): 17–19.
- Hutchinson, R. 1998. Découverte de *Boyeria grafiana* Williamson (Odonata: Aeshnidae) en Gaspésie. *Fabreries* 23(1): 22.
- Hutchinson, R. 1999. Découverte d'*Enallagma civile* (Hagen) (Odonata: Coenagrionidae) dans la baie des Chaleur en Gaspésie (Québec). *Fabreries* 24(4): 82–84.
- Hutchinson, R. 2001. Les libellules (Odonata) des grandes rivières du sud du Québec. *Biodiversity* 2: 9–16.
- Hutchinson, R. and B. Ménard. 2000. La larve de *Somatochlora brevicincta* Robert (Anisoptera: Corduliidae). *Fabreries* 25(4): 53–67.
- Hutchinson, R. and B. Ménard. 1999. *Stylurus notatus* (Rambur) (Odonata: Gomphidae) au Québec: récoltes, obser-

- vations et notes biologiques. *Fabreries* 24(4): 78–80.
- Hughes, M.L. and J.R. Duncan. 2003. The dragonflies of Manitoba—an updated species list. *Blue Jay* 61(3): 168–175
- Hughes, M.L. and P.M. Catling. 2004. First Records of *Stylurus amnicola* for Manitoba. *Argia* 16(4): 6–8.
- Hutchings, G.E. 1998. New Record of *Tramea lacerata* (Hagen), the Black-Mantled Glider, in Western Canada. *Argia* 10(1): 9.
- Hutchings, G. 2002. Three new species of Odonata for Saskatchewan, Canada. *Argia* 13(4): 5–7.
- Hutchings, G. 2003. Another dot on the map—*Aeshna tuberculifera* from north-central Saskatchewan. *Argia* 15(3): 9–10.
- Hutchings, G. 2003. A list of the Odonata of Athabasca Sand Dunes Provincial Wilderness Area. *Argia* 14(4): 5–8.
- Hutchings, G.E. 2004. A list of the Odonata (dragonflies) of Athabasca Sand Dunes Provincial Wilderness Park, Saskatchewan. *Blue Jay* (in press).
- Hutchings, G.E. 2004. Dragonflies of Saskatchewan—A brief introduction. Saskatchewan Encyclopedia Project, Canadian Plains Research Centre, University of Regina. In Press.
- Hutchings, G.E. 2004. Eight new or previously unrecorded species of Odonata (Dragonflies) for Saskatchewan. *Blue Jay* 62(2): 98–103.
- Jobin, L.J. et J.-M. Perron. 2003. Les Odonates de la rivière du Lièvre: une chasse exceptionnelle. *Fabreries* 28(1): 48–50.
- Jones, D.J. 2000. New odonate records for Timiskaming District, Ontario. Pp. 25–27. in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 1. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Jones, C.D. 2002. Additional records of the River Bluet (*Enallagma anna*) in Ontario. Pp. 49–50 in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 3. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Jones, C.D. and P.S. Burke. 2004. Mocha Emerald (*Somatochlora linearis*), new to Ontario and Canada. In press, in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 5. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Kenner, R.D. and R.A. Cannings. 2000. Rediscovery of the Western Pondhawk (*Erythemis collocata* [Hagen]) in the Lower Fraser Valley. *Discovery* 29(2): 50–52
- Ménard, B. et R. Hutchinson. 1999. *Williamsonia fletcheri* Williamson (Odonata: Cordulidae) au Québec: récolés, habitats et notes biologiques. *Fabreries* 24(2&3): 26–32.
- McPeek, M. 1998. Comments on *Enallagma cyathigerum* and *vernale*. *Argia* 10(1): 22–23.
- Miller, K.B. and M.A. Ivie. 1996. *Enallagma optimolocus*, a new species of damselfly from Montana (Odonata: Coenagrionidae). *Proceedings of the Entomological Society of Washington* 97: 833–838.
- Needham, J.G., M.J. Westfall, Jr. and M.L. May. 2000. Dragonflies of North America. Scientific Publishers, Gainesville, Florida, USA. 939 pp.
- O'Brien, M.F. and P.D. Pratt. 1998. *Enallagma anna*, a damselfly new to the Great Lakes region (Odonata: Coenagrionidae). *Great Lakes Entomologist* 31(3&4): 211–213.
- Oldham, M.J., D.A. Sutherland, and M.L. Holder. 2000. Conservation status ranks for Ontario Odonata. Pp. 1–7. in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 1. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Oldham, M.J., and D.R. Elder. 2000. Noteworthy Odonata records from northwestern Ontario. Pp. 28–33. in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 1. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Oldham, M.J. 2000a. Green-faced clubtail (*Gomphus viridifrons*) in Ontario. Pp. 51–52. in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 1. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Oldham, M.J. 2000b. Citrine Forktail (*Ischnura hastata*) in Ontario. In: Ontario Odonata: 7–9. in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 1. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Oldham, M.J. and K. Brodrribb. 2003. Notes on the Smoky Rubyspot (*Hetaerina titia*) in Ontario. Pp. 38–40 in

- P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 4. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Paulson, D.R. and R.A. Cannings. 1980. Distribution, natural history and relationships of *Ischnura erratica* Calvert (Zygoptera: Coenagrionidae). *Odonatologica* 9(2): 147–153.
- Paulson, D.R. and S.W. Dunkle. 1999. A checklist of North American Odonata. University of Puget Sound Occasional Paper 56: 1–86. This list is updated on the Internet as The Odonata of North America: the Dragonfly Society of the Americas at <http://www.ups.edu/biology/museum/NAdragons.html>. The version used was revised in July 2004.
- Perron, J.-M. et Y. Ruel. 2000. Extension de l'aire de répartition connue au Québec de *Libellula luctuosa* Burmeister (Odonata: Libellulidae). *Fabreries* 25(4): 77.
- Perron, J.-M. 2000. Implantation d'*Enallagma civile* (Hagen) (Odonata: Coenagrionidae) sur le territoire du marais Léon-Provancher, Neuville (Québec). *Fabreries* 25(1): 20–21.
- Perron, J.-M., J. D. Brisson. et M.-C. Desmarais. 2003. Découverte d'une libellulide asiatique, *Crocothemis servilia* (Drury) (Odonata: Libellulidae: Sympetrinae), au Québec. *Fabreries* 28(1): 31–36.
- Perron, J.-M. et Y. Ruel. 1998. Deux gomphides rares, *Stylurus amnicola* (Walsh) et *Stylurus spiniceps* (Walsh), B l'anse du Moulin Banal, Saint Augustin-de-Desmaures, Québec. *Fabreries* 23: 131–133.
- Perron, J.-M. et Y. Ruel. 2000. Extension de l'aire de répartition connue au Québec d'*Ophiogomphus anomalus* Harvey (Odonata: Gomphidae). *Fabreries* 25(1): 22.
- Perron, J.-M. et Y. Ruel. 2002. Étude d l'émergence de quelques espèces de Gomphides (Gomphidae: Odonata) B l'anse du Moulin Banal, Saint Augustin-de-Desmaures, Québec. *Fabreries* 27: 87–100.
- Pilon, J.-G. and D. Lagacé. 1998. Les odonates du Québec. Entomofaune du Québec, Chicoutimi, Québec. 367 pp.
- Pratt, P.D. 1996. Checklist of the Odonata of Ontario. *Ontario Insects* 2(1): 9–12.
- Pratt, P.D. and P.M. Catling. 1998. Distribution of *Hetaerina titia* (Odonata: Calopterygidae) in the eastern Great Lakes region. *Great Lakes Entomologist* 31(3&4): 205–208.
- Pratt, P. D. 2002. *Ischnura kellicotti* (Lilypad Forktail) new to Canada. Pp. 12–13 in P. M. Catling, C. D. Jones and P. Pratt, eds., Ontario Odonata, vol. 3. Toronto Entomologists Association, Toronto, Canada.
- Pratt, P.D. 2002. Ojibway Nature Centre, Windsor. Damselflies and Dragonflies of the Ojibway Prairie complex. <http://www.ojibway.ca/odonata.htm>
- Pratt, P.D. 2003. Regional lists of Ontario Odonata (Grey, Bruce, Huron, Middlesex, Elgin, Lambton, Kent, Essex Counties). <http://www.netcore.ca/~prairie/odomata.html>
- Pratt, P.D. and S.M. Paiero. 2003. *Archilestes grandis* (Rambur) (Odonata: Lestidae), new to Canada. Pp. 11–12 in P.M. Catling, C.D. Jones and P. Pratt, eds., Ontario Odonata, vol. 4. Toronto Entomologists' Association, Toronto, Ontario, Canada.
- Ramsay, L.R., and R.A. Cannings. 2005. Determining the status of British Columbia's dragonflies. In T.D. Hooper (Ed.) Proceedings of the Species at Risk 2004 Pathways to Recovery Conference. March 2–6, 2004, Victoria, British Columbia. Species at Risk 2004 Pathways to Recovery Conference Organizing Committee, Victoria, BC. In press.
- Sabine, D.L., A.W. Thomas, and H.S. Makepeace. 2004. New Canadian and provincial Odonate records from New Brunswick. *Argia* 16(1): 22–24.
- Scudder, G.G.E., R.A. Cannings and K.M. Stuart. 1976. An annotated checklist of the Odonata (Insecta) of British Columbia. *Sysis* 9: 143–162.
- Scudder, G.G.E., K.M. Needham, R.D. Kenner, R.A. Cannings and S.G. Cannings. 2001. Aquatic insects in British Columbia: 100 years of study. *Journal of the Entomological Society of British Columbia* 98: 61–82.
- Simaika, J.P. and R.A. Cannings. *Lestes disjunctus* Selys and *L. forcipatus* Rambur (Odonata: Lestidae): Some Solutions for Identification. *Journal of the Entomological Society of BC*. Submitted.
- Skevington, J. and I. Carmichael. 1997. Dragonflies and damselflies (Odonata) of Bosanquet (North Lambton County, Ontario). *Proceedings of the Entomological Society of Ontario* 128: 3–12.
- Savard, M. 1987. Présence hypothétique de *Tachopteryx*

- thoreyi* au Québec et au Canada (Odonata: Petaluridae)
Fabreries 13: 47–48.
- Tingley, S. 1997. New Brunswick news. *Argia* 9(3): 22.
- Tingley, S. 1998. More *Somatochlora brevicincta*. *Argia* 10(2): 8.
- Tingley, S. 1999. *Leucorrhinia patricia* in New Brunswick. *Argia* 11(3): 8.
- Walker, E.M. 1953. The Odonata of Canada and Alaska. Volume 1, Part I: General. Part II: The Zygoptera — Damselflies. University of Toronto Press. 292 pp.
- Walker, E.M. 1958. The Odonata of Canada and Alaska. Volume 2, Part III: The Anisoptera—four families. University of Toronto Press. 318 pp.
- Walker, E.M., and P.S. Corbet. 1975. The Odonata of Canada and Alaska. Volume 3, Part IV: The Anisoptera—three families. 1978 reprint with addenda and corrigenda: volumes I and 2. University of Toronto Press, Toronto, Ontario. 308 pp.
- Westfall, M.J., Jr. and M.L. May. 1996. Damselflies of North America. Scientific Publishers, Gainesville, Florida, USA. 649 pp.

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