
LIST OF DRAGONFLIES OF CANADA.

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The following papers published within the past few years repeat most of the records of earlier authors and throw new light on the distribution of northern North American dragonflies. In addition to the species discussed in these recent papers and listed below the following have been recorded from Canada:

Cordulegaster sayi, *Samatochlora franklini*, *Somatochlora septentrionalis*, *Dorocordulia lintneri*, *Celithemis fasciata*, and *Leucorhinia borealis*.

The portion of this vast land area west of the continental divide is characterized among other features by the development of the genus *Sympetrum*. The eastern portion, of much greater extent, is characterized by a richer fauna and the great number of Gomphines and of species of the genus *Somatochlora*.* Yet the homogeneity of the fauna of the entire region, east and west, is strikingly indicated by a comparison of the lists of species known from Alaska and Newfoundland. The ten certainly determined species known from Alaska are widely distributed and, with the exception of one, *Aeshna constricta*, itself a very common, widely distributed species, all are known to occur in Newfoundland. Where homogeneity in the east and west regions

*So few specimens have been taken that it is possible many of the eastern species of *Somatochlora* may eventually be found on the western coast also.

is lacking it may be explained probably by the migration of southern species northward, either along the Pacific Coast region or over the broad continental land mass east of the divide, and the inability of many of these forms to cross the divide. For examples of species unable to cross this barrier see the genus *Argia*, *Ischnura*, *Gomphus*, and *Sympetrum*. Boreal species which range freely across the continent are *Cordulia shurtleffi*, *Leucorhinia hudsonica*, etc.

1. Notes on Nova Scotian Dragonflies by P. P. Calvert and William Sheraton. *Can. Ent. Nov.*, 1894, pp. 317-320.

2. Papers from the Harriman Alaska Expedition, XXII, *Ent. Results (14) Odonata*, by R. P. Currie, *Proc. Wash. Acad. Sci.* Vol. III, pp. 217-223, 1901.

3. Dragonflies from the Kootenay District of British Columbia, by R. P. Currie, *Proc. Ent. Soc. Wash.* Vol. VII, No. 1, 1905, pp. 16-20.

4. The dragonflies of the Province of Quebec, by Rev. T. W. Fyles, 31 annual report of the *Ent. Soc. of Ontario*, 1900, pp. 52-55.

5. The Odonata of British Columbia, by R. C. Osburn, *Ent. News*, June, 1905, pp. 184-196.

6. Orthoptera and Odonata from Algonquin Park, Ontario, by E. M. Walker, 36 annual report of the *Ent. Soc. of Ontario*, 1905, pp. 64-70.

7. A first list of Ontario Odonata by E. M. Walker. *Can. Ent. Vol. XXXVIII*, April, 1906, pp. 105-110, May 1906, pp. 149-154.

8. A new *Somatochlora* with a note on Ontario species by E. M. Walker, *Can. Ent. Vol. XXXIX*, March, 1907, pp. 69-74.

9. Dragonflies from the Magdalen Islands, by E. B. Williamson, *Ent. News*, May, 1902, pp. 144-146.

10. Dragonflies collected by Dr. D. A. Atkinson in New Foundland with notes on some species of *Somatochlora*, by E. B. Williamson, *Ent. News*, April, 1906, pp. 133-139.

In the following list of species the numbers refer to the papers above correspondingly numbered. The number 11 refers to my Algoma District list above enumerated:

<i>Calopteryx maculata</i> Beauv. 4, 6,	<i>A. apicalis</i> Say 7
7, 11	<i>A. violacea</i> Hagen 6, 7
<i>C. aequabilis</i> Say 4, 6, 7, 11	<i>A. vivida</i> Selys 5
<i>Lestes congener</i> Hagen 3, 5, 6, 7, 11	<i>Chromagrion conditum</i> Hagen 7, 11
<i>L. unguiculatus</i> Hagen 1, 4, 7	<i>Nehalennia irene</i> Hagen 7, 11
<i>L. uncatus</i> Kirby 1, 3, 5, 6, 7, 11	<i>Amphiagrion saucium</i> Burm. 4, 5, 7
<i>L. disjunctus</i> Selys 1, 6, 7, 11	<i>Enallagma hageni</i> Walsh 4, 6, 7,
<i>L. forcipatus</i> Rambur 3, 5	9, 11
<i>L. rectangularis</i> Say 6, 7, 11	<i>E. cyathigerum</i> Charpentier 2, 3,
<i>L. vigilax</i> Hagen 7	5, 9, 10
<i>Argia putrida</i> Hagen 6, 7	

- E. calverti* Morse 2, 3, 5, 7, 10 (in 10 reasons are given for considering calverti a synonym of boreale Selys).
E. ebrium Hagen 1, 6, 7, 10
E. durum Hagen 4
E. carunculatum Morse 3, 5, 7
E. civile Hagen 4
E. geminatum Kellicott 7
E. exsulans Hagen 6, 7
E. signatum Hagen 7
E. antennatum Say 7
Agrion resolutum Hagen 7, 9
Ischnura posita Hagen 4
I. ramburii Selys 4, 7
I. verticalis Say 6, 7, 11
I. cervula Selys 3, 5
I. perparva Selys 5
I. erratica Calvert 5
Ophiogomphus occidentis Hagen 5
O. rupinsulensis Walsh 4, 6, 7
O. colubrinus Selys 4
O. carolus Needham 11
Gomphus brevis Hagen 6, 7
G. confraternus Selys. 5.
G. borealis Needham 7
G. exilis Selys 4, 6, 7
G. sordidus Hagen 7, 11
G. spicatus Hagen 7
G. furcifer Hagen 7
G. villosipes Selys 7
G. fraternus Say 4
G. crassus Hagen 7
G. vastus Walsh 4
G. scudderii Selys 6, 7, 11
G. plagiatus Selys 6, 7
G. notatus Rambur 4
Dromogomphus spinosus Selys 4, 7
Lanthus albistylus Hagen 6, 7, 11
L. parvulus Selys 1
Hagenius brevistylus Selys 6, 7, 11
Cordulegaster dorsalis Hagen 5
C. obliquus Say 4, 7
C. maculatus Selys 1, 7, 11
C. diastatops Selys, 1, 4, 7
Tachopteryx thoreyi Hagen 4
Boyeria vinosa Say 4, 6, 7, 11
B. grafiana Williamson 11
Basiaeschna janata Say 4
Aeschna juncea Linne 2, 3, 5, 9
A. verticalis Hagen 4, 6, 7
A. californica Calvert 5
A. clepsydra Say 1, 2, 6, 7, 10
A. sitchensis Hagen 2, 10
A. septentrionalis Burm. 4, 10
A. constricta Say 1, 2, 3, 4, 5, 6, 7
A. multicolor Hagen 3, 5
Epiaeschna ferus Fabricius 4, 7
Anax junius Drury 4, 7
Macromia illinoiensis Walsh 4, 6, 7
Didymops transversa Say 4, 6, 7
Neurocordulia yamaskanensis Prov. 4, 7
Epicordulia princeps Hagen 4, 6, 7
Tetragoneuria spinigera Selys 5, 6, 7
T. cynosura Say 4, 6, 7
T. semiaquea Burmeister 1, 6, 7
Helocordulia uhleri Selys 4, 6, 7
Somatochlora semicircularis Selys 3, 5
S. forcipata Scudder 1, 4, 6, 7, 8, 10
S. elongata Scudder 1, 4, 6, 7, 8, 11
S. williamsoni Walker 8
S. walshii Scudder 1, 8
S. linearis Hagen 4
S. hudsonica Hagen 10
S. albicincta Burmeister 2, 4, 10
S. singulata Selys 10
S. tenebrosa Say 1, 7, 8
Cordulia shurtleffi Scudder 1, 2, 3, 5, 6, 7, 10, 11
Dorocordulia libera Selys 7, 11
Nannothemis bella Uhler 7
Celithemis eponina Drury 7
C. elisa Hagen 6, 7
Leucorhinia frigida Hagen 6, 7, 11
L. proxima Calvert 1, 3, 5, 11
L. hudsonica Selys 1, 2, 3, 4, 5, 9, 10
L. glacialis Hagen 1, 7, 11
L. intacta Hagen 1, 4, 7, 11
Sympetrum illotum Hagen 5
S. rubicundulum Say 1, 3, 4, 5, 6, 7
S. vicinum Hagen 3, 5, 6, 7
S. pallipes Hagen 5
S. obtrusum Hagen 1, 3, 5, 6, 7, 11
S. semicinctum Say 3, 5, 6, 7
S. scoticum Donovan 3, 4, 7, 11
S. costiferum Hagen 3, 5, 7, 10
S. madidum Hagen 5
S. illotum Hagen 5
S. corruptum Hagen 3, 5, 7
Pachydiplax longipennis Burmeister 5, 7
Erythemis simplicicollis Say 7
E. collocata Hagen 5
Erythrodiplax berenice Drury 7
Libellula quadrimaculata Linne 1, 2, 3, 4, 5, 7, 9, 10, 11
L. semifasciata Burmeister 7
L. basalis Say 7
L. incesta Hagen 7
L. forensis Hagen 5
L. pulchella Drury 4, 7
L. julia Uhler 5, 6, 7
L. exusta Say 4
Plathemis lydia Drury 4, 5, 7
Tramea carolina Linne 7