

RECORDS OF CRANE-FLIES (TIPULIDAE) FROM ONTARIO (DIPTERA). PART II.

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The first list of the crane-flies of Ontario under this general title was published in Canadian Entomologist, vol. 58, pp. 236-240; October 1926. In the present paper more than 80 additional species are recorded, based on the very extensive series of these flies contained in the Canadian National Collection, taken chiefly by Messrs. C. H. Curran, F. P. Ide and G. S. Walley. Species not included in the basic list are indicated by an asterisk (*) preceding the name. The total list of Tipulidae now known from Ontario is in excess of 150 but there are still more than 100 regional species that will undoubtedly be added to the list as a result of further collecting. As before, the collectors are indicated by initials following the record: C.H.C.=C. H. Curran; F.P.I.=F. P. Ide; G.S.W.=G. S. Walley.

Additional published records of distribution of Tipulidae for Ontario are to be found in the list of Diptera collected by M. C. Van Duzee at Kearney in 1909 (*Can. Ent.*, 43:237-244; 1911) and in the various reports of the Entomological Society of Ontario (35:77; 1904; 39:109, 1908; 43:129-131, 1912; 44:118-120, 1913; 45:139, 1914; 46:209, 1915; 47:152-153, 1916; 48:117, 1917; 49:115, 1918; 50:123, 1919; 52:65, 1921). Earlier references are included in Aldrich's "*Catalogue*."

TIPULINAE

- Tipula* (*Trichotipula*) *oropezoides* Johns. Orillia, June 26-29, 1926 (C.H.C.); Kearney, June 23, 1926 (F.P.I.); Sand Lake, July 5, 1926 (F.P.I.).
- * *T. (Cinctotipula) algonquin* Alex. Lyn, August 10, 1926 (F.P.I.).
- * *T. (C.) unimaculata* (Lw.). Chalk River, August 25, 1919 (R. H. Chrystal).
- * *T. angulata* Lw. Cornwall, June 29, 1925 (F.P.I.).
- T. angustipennis* Lw. Ottawa, June 6, 1919 (C. B. Hutchings); Trenton, 1888 (Evans); Jordan, May 19, 1924 (W. A. Ross); Sand Lake, July 1, 1926 (F.P.I.).
- * *T. balioptera* Lw. Sand Lake, July 2, 1926 (F.P.I.).
- * *T. bella* Lw. Ottawa, June 5, 1926 (F.P.I.).
- * *T. caloptera* Lw. Jordan, June 19, 1926 (G.S.W.); Black Rapids, Rideau River June 12, 1926 (F.P.I.).
- * *T. canadensis* Lw. Macdiarmid Lake, Nipigon, June 21, 1923 (N. K. Bigelow).
- * *T. cayuga* Alex. St. Davids, June 22, 1926 (G.S.W.).
- * *T. cincticornis* Doane (*mingwe* Alex.). Bonville, September 1, 1913 (W. A. Ross).
- * *T. cunctans* Say. Ottawa, September; Jordan, September 18-October 11, 1916 (W. A. Ross).
- * *T. dejecta* Walk. Putnam, May 28, 1926 (G.S.W.).
- * *T. eluta* Lw. Trenton, August 5, 1908 (Evans); Jordan, August 18, 1914 (W. A. Ross).
- * *T. entomophthorae* Alex. Kearney, July 8, 1926 (F.P.I.); Burke Falls, July 14, 1926 (F.P.I.); Severn, July 3, 1926 (C.H.C.); Lyn, August 10, 1926 (G.S.W.); Cornwall, June 27, 1925 (F.P.I.).

- * *T. fuliginosa* (Say). Severn, July 3, 1926 (C.H.C.); Norway Point, Lake of Bays, July 12, 1920 (J. McDunnough).
T. grata Lw. Kearney, July 6, 1926 (F.P.I.); Prescott, July 1, 1925 (F.P.I.); Long Is., Riding River, July 14, 1925 (F.P.I.).
T. hebes Lw. Lyn, August 10-16, 1926 (F.P.I.); Burke Falls, July 15, 1926 (F.P.I.).
 * *T. helderbergensis* Alex. Sand Lake, July 1-5, 1926 (F.P.I.); Burke Falls, July 12, 1926 (F.P.I.).
 * *T. hermannia* Alex. Orillia, June 26-July 2, 1926 (C.H.C.); Lyn, July 7, 1926 (C.H.C.); Strathroy, July 8, 1925 (H. F. Hudson); Kearney, June 24, 1926 (F.P.I.); Burke Falls, July 14-17, 1926 (F.P.I.).
 * *T. hinei* Alex. Sand Lake, June 28, 1926 (F.P.I.).
 * *T. huntsmaniana* Dietz. Kearney, June 20, 1926 (F.P.I.); Sand Lake, July 3, 1926 (F.P.I.).

* ***Tipula ideii* sp. n.**

Male.—Length about 11 mm.; wing 10.5 mm.; antenna about 8.5 mm. Allied to *T. hermannia* Alex., differing in the following regards:

Size larger. Antennae (δ) very elongate, as shown by the measurements; if bent backward extending about to the base of the fifth abdominal segment; scapal segments yellow, the flagellum uniformly dark brown; flagellar segments elongate-cylindrical, the basal swelling relatively small and inconspicuous; terminal segment very small. Praescutum with the intermediate stripes almost confluent, the dividing line being dark and scarcely evident except that it is slightly more shiny. Pleura with the dark markings more pruinose. Wings with the pattern as in *hermannia* but the apices of the cells R_2 and R_3 conspicuously darkened. Cell 1st M_2 more elongate, the second section of M_{1+2} and the basal section of M_3 being longest and parallel, the basal section of M_{1+2} and m about half as long and likewise parallel; petiole of cell M_1 about one-half longer than m . Male hypopygium with the median lobe of the tergite much shorter and less compressed than in *hermannia*, viewed from the side only slightly expanded at apex. Outer dististyle relatively small and narrow. Ninth sternite with a small bifid plate hanging in the notch, the tips of the slender lobes with dense yellow setae. Eighth sternite with a conspicuous bifid plate, the lobes long and straight, parallel, their tips obtuse.

Habitat.—Ontario.

Holotype, δ , Burke Falls, July 14, 1926 (F. P. Ide); Canadian National Collection.

This interesting species of *Tipula* is named in honor of the collector, Mr. F. P. Ide, who has added numerous species to the list of Tipulidae of Ontario. The fly is most closely allied to *Tipula subtenuicornis* Doane, of Western North America, in the uniformly darkened antennal flagellum and the general structure of the male hypopygium, differing most evidently in the much longer antennae and the details of structure of the hypopygium.

- * *T. labradorica* Alex. Macdiarmid Lake, Nipigon, September 6, 1923 (N. K. Bigelow).
 * *T. latipennis* Lw. Whitby, July 6, 1926 (C.H.C. & G.S.W.); Long Island, Rideau River, July 14, 1925 (F.P.I.).

- * *T. longiventris* Lw. Washago, June 27, 1926 (C.H.C.).
T. monticola Alex. Kearney, June 22, 1926 (F.P.I.).
- * *T. noveboracensis* Alex. Sand Lake, July 2, 1926 (F.P.I.).
T. parashleyi Alex. Ottawa, June 11, 1921 (A. Richardson); Kearney, July 6, 1926 (F.P.I.); Sand Lake, June 30-July 3, 1926 (F.P.I.).
- * *T. penobscot* Alex. Orillia, June 29, 1926 (C.H.C.).
- * *T. sayi* Alex. Jordan, August 18, 1914 (W. A. Ross); Chalk River, August 26-27, 1919 (R. H. Chrystal).
T. senega Alex. Kearney, June 22, 1926 (F.P.I.); Sand Lake, June 28, 1926 (F.P.I.); Burke Falls, July 14, 1926 (F.P.I.).
- T. sertta* Lw. Larder Lake, July 1-15, 1920 (H. C. Cook); Norway Point, Lake of Bays, June 22-26, 1920 (J. McDunnough); Kingston, June 18, 1919 (R. H. Chrystal); Sand Lake, July 1, 1926 (F.P.I.); Burke Falls, July 13, 1926 (F.P.I.).
- T. strepens* Lw. Trenton, May 31, 1911 (Evans); Orillia, June 26, 1926 (C.H.C.); Kearney, July 6, 1926 (F.P.I.).
- T. sulphurea* Doane. Trenton, August 28, 1911 (Evans).
- T. taughanmock* Alex. Pt. Pelee, June 1, 1913 (P. A. Taverner).
- T. tephrocephala* Lw. Ottawa, June 15, 1916 (G. Beaulieu); Orillia, July 2, 1926 (C.H.C.); Kearney, June 19, 1926 (F.P.I.).
- * *T. ternaria* Lw. Sudbury, May 18, 1889.
- * *T. tricolor* Fabr. Orillia, June 28, 1926 (C.H.C.).
T. trivittata Say. Ottawa, June 16, 1922 (F.P.I.); Mer Bleue, Ottawa, June 5, 1925 (F.P.I.); Balls Falls, June 28, 1926 (G.S.W.); Lyn, July 7, 1926 (G.S.W.); St. Davids, June 11, 1926 (G.S.W.); Larder Lake, July 1-15, 1920 (H. C. Cook); Niagara Glen, June 15, 1926 (G.S.W.); Sand Lake, June 30, 1926 (F.P.I.).
- * *T. ultima* Alex. Ottawa, September 22, 1924 (F.P.I.); Orillia, September 8, 1925 (C.H.C.).
- * *T. umbrosa* Lw. Norway Point, Lake of Bays, August 1, 1919 (J. McDunnough); Burke Falls, July 13, 1926 (F.P.I.).
- * *T. versicolor* Lw. Kearney, July 6, 1926 (F.P.I.). Represented by females only; these agree well with the type but the species is very close to *T. senega* Alex., and may not be distinct.
- T. vicina* Dietz. Tilsonburg, June 4, 1926 (G.S.W.); Whitby, July 6, 1925 (C.H.C.); Bothwell, May 25, 1926 (G.S.W.); Kearney, June 18, 1926 (F.P.I.); Sand Lake, June 28-30, 1926 (F.P.I.).
- T. youngi* Alex. (*macrolabis* Lw. of List I, p. 240). Paratypes, Severn, July 4, 1926; (C.H.C.); Burke Falls, July 12, 1926 (F.P.I.). (*Can. Ent.*, 59:219; 1927).
- Nephrotoma brevioricornis* (Doane). Lyn, August 7-11, 1926 (C.H.C. & F.P.I.); Cornwall, June 20, 1925 (F.P.I.); Jordan, August 18, 1914 (W. A. Ross); Kearney, July 8, 1926 (F.P.I.).
- * *N. eucerooides* Alex. Severn, July 4, 1926 (C.H.C.); Kearney, July 6-8, 1926 (F.P.I.).
- N. ferruginea* (Fabr.). St. Davids, June 22, 1926 (G.S.W.); Kearney, June 23, 1926 (F.P.I.).

N. incurva (Lw.). Mer Bleue, Ottawa, July 27, 1925 (F.P.I.); Lyn, August 10, 1926 (F.P.I.).

* *N. occipitalis* (Lw.). Long Is., Riding River, July 14, 1925 (F.P.I.).

* *N. pedunculata* (Lw.). Sand Lake, June 30-July 3, 1926 (F.P.I.).

* *N. xanthostigma* (Lw.). Mer Bleue, Blackburn, August 5, 1926 (G.S.W.); Lyn, August 10-11, 1926 (G.S.W.).

Tanyptera topazina (O.S.). Sand Lake, June 28, 1926 (F.P.I.).

* *Oropeza dorsalis* Johns. Burke Falls, July 13, 1926 (F.P.I.).

* *O. obscura* Johns. Lyn, August 10, 1926 (F.P.I.); Niagara Glen, June 30, 1926 (G.S.W.); Burke Falls, July 14, 1926 (F.P.I.).

* *O. subalbipes* Johns. Blackburn, August 6, 1926 (F.P.I.).

* *O. venosa* Johns. Orillia, June 26-July 2, 1926 (C.H.C.); Burke Falls, July 9-13, 1926 (F.P.I.).

CYLINDROTOMINAE

* *Cylindrotoma americana* O.S. Burke Falls, July 14, 1926 (F.P.I.).

Liogma nodicornis (O.S.). Joe Lake, Algonquin Park, July 7, 1926 (F.P.I.); Orillia, July 2, 1926 (C.H.C.); Sand Lake, June 29-July 1, 1926 (F.P.I.); Burke Falls, July 14, 1926 (F.P.I.).

Phalacrocer a tipulina O.S. Mer Bleue, July 27, 1925 (F.P.I.); Sand Lake, July 5, 1926 (F.P.I.).

LIMONIINAE

* *Discobola argus* (Say). Ottawa, August 26, 1925 (F.P.I.), September 22, 1924 (F.P.I.); Long I., Rideau River, July 14, 1925 (F.P.I.); Lyn, August 10, 1926 (F.P.I.); Burke Falls, July 15, 1926 (F.P.I.).

* *Rhipidia (Monorhipidia) fidelis* O.S. Sand Lake, June 30, 1926 (F.P.I.).

* *R. (Rhipidia) maculata* Meig. Ottawa, September 22, 1924 (F.P.I.); Prescott, June 30, 1925 (F.P.I.); Lyn, July 7, 1926 (C.H.C.), August 10, 1926 (F.P.I.).

* *Limonia globithorax* (O.S.). Orillia, September 8, 1925 (C.H.C.).

* *L. hudsonica* (O.S.). Sand Lake, June 28-29, 1926 (F.P.I.).

* *L. indigena* (O.S.). Niagara Glen, June 15, 1926 (G.S.W.); Sand Lake, July 5, 1926 (F.P.I.).

* *L. pubipennis* (O.S.). Burke Falls, July 13, 1926 (F.P.I.).

L. simulans (O.S.). Prescott, June 30, 1925 (F.P.I.).

L. solitaria (O.S.). Burke Falls, July 13-15, 1926 (F.P.I.).

* *L. tristigma* (O.S.). Lyn, August 10-16, 1926 (F.P.I.).

* *Dicranomyia haeretica* O.S. Mer Bleue, Ottawa, June 7, 1923 (C.H.C.).

D. immodesta O.S. Lyn, July 7, 1926 (C.H.C.).

* *D. liberta* O.S. Orillia, June 28, 1926 (C.H.C.); Lobo, May 29, 1925 (A. A. Wood); Black Rapids, Rideau River, June 12, 1926 (F.P.I.).

D. morioides O.S. Ottawa, June 22, 1926 (C. R. Twinn).

* *D. sphagnicola* Alex. Lyn, July 7, 1926 (C.H.C.); Severn, July 3, 1926 (C.H.C.); Burke Falls, July 12, 1926 (F.P.I.).

Geranomyia canadensis (Westw.). Orillia, September 8, 1925 (C.H.C.); Whitby, July 6, 1926 (C.H.C.).

- * *Antocha saxicola* O.S. Ottawa, June 10, 1926 (F.P.I.); Tillsonburg, June 4, 1926 (G.S.W.); Kearney, July 19-25, 1926 (F.P.I.); Burke Falls, July 9-12, 1926 (F.P.I.).
- Helius flavipes* (Macq.). Orillia, July 2, 1926 (C.H.C.); Lyn, August 9, 1926 (F.P.I.); Jordan, June 12, 1926 (G.S.W.); St. Davids, June 22, 1926 (G.S.W.); Niagara Glen, June 9, 1926 (G.S.W.).
- Tricyphona calcar* (O.S.). Black Rapids, Rideau River, June 12, 1926 (F.P.I.); Sand Lake, June 28, 1926 (F.P.I.).
- T. inconstans* (O.S.). Tillsonburg, June 4-5, 1926 (G.S.W.); Orillia, July 2, 1926 (C.H.C.); Kearney, June 20-24, 1926 (F.P.I.); Burke Falls, July 9-12, 1926 (F.P.I.).
- * *T. paludicola* Alex. Mer Bleue, Ottawa, May 23, 1922 (A. Richardson).
- * *Amalopina flavicola* (O.S.). Black Rapids, Rideau River, June 12, 1926 (F. P. I.); Burke Falls, July 15, 1926 (F.P.I.).
- Adelphomyia minuta* Alex. Orillia, June 26, 1926 (C.H.C.).
- * *A. pleuralis* Dietz. Orillia, July 13, 1923 (C.H.C.).
- * *Ula elegans* O.S. Kearney, June 20, 1926 (F.P.I.).
- Epiphragma fascipennis* (Say). Putnam, June 26, 1925 (G.S.W.); Orillia June 29, 1926 (C.H.C.); Kearney, June 24, 1926 (F.P.I.).
- * *Dactylolabis montana* (O.S.). St. Davids, June 11, 1926 (G.S.W.); Niagara Glen, June 1, 1926 (G.S.W.); Kearney, June 23, 1926 (F.P.I.).
- * *Pseudolimnophila contempta* (O.S.). Joe Lake, Algonquin Park, July 7, 1926 (F.P.I.).
- P. inornata* (O.S.). Orillia, June 26, 1926 (C.H.C.).
- * *P. noveboracensis* (Alex.). Lyn, July 7, 1926 (C.H.C.), August 10, 1926 (F. P. I.).
- * *P. toxoneura* (O.S.). Orillia, June 26, 1926 (C.H.C.).
- Limnophila (Lasiomastix) macrocera* (Say). Putnam, June 26, 1925 (G.S.W.).
- * *L. (L.) subtenuicornis* Alex. Bothwell, May 25, 1926 (G.S.W.).
- L. (L.) tenuicornis* O.S. Kearney, June 18, 1926 (F.P.I.).
- * *L. (Prionolabis) munda* O.S. Burke Falls, July 12-14, 1926 (F.P.I.).
- L. (P.) rufibasis* O.S. Lobo, May 29, 1925 (A. A. Wood); Orillia, June 28-July 2, 1926 (C.H.C.); Black Rapids, Rideau River, June 12, 1926 (F.P.I.); Niagara Glen, June 15, 1926 (G.S.W.).
- * *L. (Ephelia) irene* Alex. Sand Lake, July 2, 1926 (F.P.I.).
- * *L. (E.) solstitialis* Alex. Burke Falls, July 13, 1926 (F.P.I.).
- L. (Dicranophragma) fuscovaria* O.S. Black Rapids, Rideau River, June 12, 1926 (F.P.I.); Orillia, June 26-July 2, 1926 (C.H.C.).
- L. (Phylidorea) adusta* O.S. Sand Lake, June 28, 1926 (F.P.I.).
- L. (P.) auripennis* Alex. Ottawa, September 22, 1924 (F.P.I.); Lyn, July 7, 1926 (C.H.C.).
- L. (P.) platyphallus* Alex. Burke Falls, July 17-19, 1926 (F.P.I.).
- * *L. (P.) similis* Alex. St. Davids, June 11, 1926 (G.S.W.); Niagara Glen, June 10, 1926 (G.S.W.). These specimens are somewhat more brightly colored than the types but are apparently correctly determined.

- * *L. areolata* O.S. Severn, July 3-4, 1926 (C.H.C.); Burke Falls, July 9-13, 1926 (F.P.I.).
- * *L. emmelina* Alex. Jordan, June 19, 1926 (G.S.W.).
L. lenta O.S. Norway Point, Lake of Bays, July 31-August 1, 1919 (J. McDunough).
- * *L. poetica* O.S. Ottawa, May 29, 1925 (C.H.C.); Mer Bleue, Ottawa, June 7, 1923 (C.H.C.).
- * *L. subcostata* Alex. Black Rapids, Riding River, June 12, 1926 (F.P.I.).
- * *Pilaria imbecilla* (O.S.). Lyn, July 7, 1926 (C.H.C.).
P. quadrata (O.S.). Joe Lake, Algonquin Park, July 7, 1926 (F.P.I.); Burke Falls, July 9-12, 1926 (F.P.I.); Sand Lake, July 2, 1926 (F.P.I.).
P. tenuipes (Say). Black Rapids, Rideau River, June 1, 1926 (F.P.I.); Orillia, June 26-29, 1926 (C.H.C.); Lyn, July 7, 1926 (C.H.C.); Burke Falls, July 12, 1926 (F.P.I.).
- * *Elephantomyia westwoodii* O.S. Burke Falls, July 14, 1926 (F.P.I.).
- * *Eriocera brachycera* O.S. Sand Lake, July 2, 1926 (F.P.I.).
- * *E. cinerea* Alex. Joe Lake, Algonquin Park, July 7, 1926 (F.P.I.); Sand Lake, July 3-5, 1926 (F.P.I.).
- * *E. longicornis* (Walk.). Kearney, June 19-25, 1926 (F.P.I.); Sand Lake, June 30, 1926 (F.P.I.).
- * *Neolimnophila ultima* (O.S.). Ottawa, June 6, 1923 (C.H.C.).
- * *Gnophomyia tristissima* O.S. Niagara Glen, July 1, 1926 (G.S.W.).
- * *Gonomyia (Gonomyia) florens* Alex. Orillia, June 29, 1926 (C.H.C.).
G. (G.) subcinerea O.S. Orillia, June 28, 1926 (C.H.C.).
G. (G.) sulphurella O.S. Lyn, July 7, 1926 (C.H.C.); Burke Falls, July 13, 1926 (F.P.I.).
- * *Erioptera (Empeda) stigmatica* (O.S.). Orillia, July 2, 1926 (C.H.C.).
- * *E. (Ilisia) venusta* O.S. Orillia, June 26, 1926 (C.H.C.).
E. (Mesocyphona) caloptera (Say). Jordan, July 18, 1919 (W. A. Ross).
E. (M.) needhami Alex. Ottawa, June 22, 1926 (C. R. Twinn); Orillia, June 26, 1926 (C.H.C.); Lyn, July 7, 1926 (C.H.C.).
E. (Hoplolabis) armata O.S. Cayuga, June 5, 1926 (G.S.W.); St. Davids, June 11, 1926 (G.S.W.); Kearney, June 18-23, 1926 (F.P.I.); Burke Falls, July 13, 1926 (F.P.I.).
E. (Erioptera) chlorophylloides Alex. Cornwall, June 27, 1925 (F.P.I.).
- * *E. (E.) megophthalma* Alex. Orillia, July 2, 1926 (C.H.C.); Tillsonburg, June 4, 1926 (G.S.W.); Burke Falls, July 13, 1926 (F.P.I.).
E. (E.) vespertina O.S. Mer Bleue, Ottawa, June 7, 1923 (C.H.C.); Orillia, June 26, 1926 (C.H.C.).
E. (E.) villosa O.S. Cornwall, June 27, 1925 (F.P.I.).
Molophilus hirtipennis (O.S.). Orillia, June 26-July 2, 1926 (C.H.C.); Sand Lake, June 28-July 5, 1926 (F.P.I.).
- * *M. pubipennis* (O.S.). Ottawa, June 22, 1926 (C. R. Twinn); Joe Lake, Algonquin Park, July 7, 1926 (F.P.I.); Sand Lake, July 5, 1926 (F.P.I.); Kearney, July 8, 1926 (F.P.I.); Burke Falls, July 12, 1926 (F.P.I.).
Ormosia deviata Dietz. Ottawa, September 22, 1924 (F.P.I.); Orillia, June 26-28, 1926 (C.H.C.).

- O. meigenii* (O.S.). Orillia, June 29, 1926 (C.H.C.).
- * *O. mesocera* Alex. Sand Lake, June 28, 1926 (F.P.I.).
- * *Crytolabis paradoxa* O.S. Long Is., Rideau River, July 14, 1925 (F.P.I.);
Kearney, August 5, 1925 (F.P.I.); Burke Falls, July 15, 1926 (F.P.I.).
- Helobia hybrida* Meig. Orillia, June 28, 1926 (C.H.C.); Burke Falls, July 12,
1926 (F.P.I.).
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