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

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Mr. C. H. Curran of the Entomological Branch, Ottawa, Canada, has kindly sent me for determination the large and interesting collections of crane-flies belonging to the Canadian National Collection of Insects. Among the material from Ontario, collected chiefly by Mr. Curran and Mr. G. S. Walley, there were included a number of species of unusual interest, including some additions to the Canadian list. It seems desirable to publish these records of the various Ontario Tipulidae, to which further additions will certainly be made. My sincere thanks are extended to Mr. Curran and Mr. Walley for the privilege of studying these important collections. The collectors are indicated by initials following the species: C.H.C.=C. H. Curran; G.S.W.=G. S. Walley.

*Dicranomyia badia* (Walk.). Orillia, June 5, 1925 (C. H. C.); Niagara Falls, July 30, 1925 (G.S.W.).

*D. brevivena* O. S. Fisher's Glen, July 1, 1925 (G.S.W.).

- D. immodesta* O. S. Orillia, June 10, 1925 (C. H. C.); Ottawa, August 10, 1925 (G.S.W.).
- D. morioides* O. S. Orillia, June 5, 1925 (C. H. C.).
- D. simulans* (Walk.). Niagara Falls, July 29, 1925 (G.S.W.).
- Geranomyia canadensis* (Westw.). Bothwell, June 13, 1925 (G. S. W.).
- Limonia cinctipes* (Say). Normandale, June 29, 1925 (G. S. W.).
- L. solitaria* (O. S.). Orillia, June 7, 1925 (C. H. C.); Normandale, July 8, 1925 (G. S. W.); Bothwell, May 23, 1925 (G. S. W.).
- Helius flavipes* (Macq.). Orillia, June 6-11, 1925 (C. H. C.); Ottawa, August 6, 1925 (C. H. C.); Pt. Pelee, June 11, July 20, 1925 (G. S. W.).
- Epiphragma fascipennis* (Say). Orillia, June 5-11, 1925 (C. H. C.).
- Pseudolimmophila inornata* (O. S.). Ottawa, May 29, 1925 (C. H. C.).
- P. luteipennis* (O. S.). Orillia, June 10, 1925 (C. H. C.).
- Limmophila sylvia* Alex. Pt. Pelee, June 19, 1925 (G. S. W.).
- L. (Lasiomastix) macrocera* (Say). Putnam, June 26, 1925 (G. S. W.).
- L. (L.) tenuicornis* O. S. Orillia, June 5, 1925 (C. H. C.); Bothwell, May 23, 1925 (G. S. W.).
- L. (Phylidorea) adusta* O. S. Dryden, June 30, 1918 (H. G. Dyar); in the U. S. N. M.
- L. (P.) auripennis* Alex. Paratype, ♂, Orillia, June 10, 1925 (C. H. C.).
- L. (P.) platyphallus* Alex. Paratype, ♂, Orillia, June 10, 1925 (C. H. C.).
- L. (Ephelia) johnsoni* Alex. Orillia, June 5, 1925 (C. H. C.).
- L. (Dicranophragma) fuscovaria* O. S. Orillia, June 5-16, 1925 (C. H. C.); Delhi, July 10, 1925 (G. S. W.).
- L. (Prionolabis) rufibasis* O. S. Orillia, June 7, 1925 (C. H. C.); Bothwell, June 13, 1925 (G. S. W.).
- Pilaria lenta* (O. S.) Fisher's Glen, July 1, 1925 (G. S. W.); Pt. Pelee, May 28, 1925 (G. S. W.).
- P. quadrata* (O. S.). Severn, June 16, 1925 (C. H. C.).
- P. recondita* (O. S.). Pt. Pelee, July 17, 1925 (G. S. W.).
- P. tenuipes* (Say) Walsh, July 3, 1925 (G. S. W.).
- Adelphomyia minuta* Alex. Orillia, June 5-7, 1925 (C. H. C.).
- Tricyphona calcar* (O. S.). Orillia, June 5-8, 1925 (C. H. C.).
- T. inconstans* (O. S.). Orillia, June 5-7, 1925 (C. H. C.); Bothwell, June 13, 1925 (G. S. W.); Fisher's Glen, July 1, 1925 (G. S. W.).
- Ormosia arcuata* (Doane). Low Bush, Lake Abitibi, June 1, 1925 (N. K. Bigelow).
- O. deviata* Dietz. Orillia, June 10, 1925 (C. H. C.).
- O. meigenii* (O. S.). Orillia, June 5, 1925 (C. H. C.); Bothwell, May 23, 1925 (G. S. W.).
- O. notmani* Alex. Orillia, June 11, 1925 (C. H. C.); Bothwell, May 23rd, 1925 (G. S. W.).
- Molophilus hirtipennis* (O. S.). Orillia, June 5, 1925 (C. H. C.).

**Erioptera (Erioptera) ebenina** sp. n.

General coloration shiny black; head dark gray; lateral pretergites narrowly pale yellow; knobs of halteres dark; ninth segment of male pale; hypopygium with the inner dististyle a short, stout, massive club.

*Male*.—Length about 4 mm.; wing 5.5 mm.

*Female*.—Length about 4.5 mm.; wing 5.5 mm.

Rostrum and palpi black. Antennae black throughout; flagellar segments elongate-oval. Head dark gray, more silvery-gray in front and very narrowly so on the posterior orbits; in cases, the vertex appears to have a U-shaped darker marking.

Pronotum black. Lateral pretergites narrowly pale yellow, the coloration continued to the wing-root or nearly so. Mesonotum shiny coal-black. Pleura black, with a broad longitudinal stripe of grayish bloom extending from the fore legs to the base of the abdomen, including the sternopleurite, pteropleurite and the metapleura. Halteres pale at base, the stem dusky, the knobs infuscated. Legs with the coxae more or less infuscated, especially the fore coxae; trochanters obscure yellow; femora obscure yellow at base, becoming somewhat darker outwardly, the tips conspicuously blackened; tibiae brown, the tips darker; tarsi dark brown. Wings with a faint dusky tinge, the veins dark brown; *Sc* paler. Venation: *m-cu* before or beyond the fork of *M*; vein *2nd A* only gently sinuous, ending before *m-cu*.

Abdomen black, including the hypopygium, the ninth segment of the male conspicuously light yellow. Male hypopygium with the basistyles relatively stout. Outer dististyle a powerful heavily blackened straight rod, the outer margin with very appressed microscopic serrulations, the tip acute; inner margin of style at base with a small triangular tooth. Inner dististyle about one-half the length of the outer, heavily blackened, the base or neck short and stout, soon dilated into a massive irregular head, the inner margin of the style with long erect setae. Gonapophyses appearing as slender, straight rods that narrow gradually to the acute tips. Ovipositor with the strongly upcurved tergal valves black basally, the apices broadly yellowish horn color; sternal valves entirely black.

*Habitat*.—Ontario, New York.

*Holotype*.—♂, Ottawa, Ontario, May 29, 1925 (C. H. Curran).

*Allotopotype*.—♀, in copula and pinned with type.

*Paratype*.—♀, Masten's Woods, Gloversville, New York, altitude 900 feet, June 16, 1924 (C. P. Alexander).

*Erioptera* (*E.*) *chlorophylloides* Alex. Pt. Pelee, June 17-24, 1925 (G. S. W.).

*E.* (*E.*) *septentrionis* O. S. Bothwell, May 23, 1925 (G. S. W.).

*E.* (*E.*) *vespertina* O. S. Orillia, June 5, 1925 (C. H. C.).

*E.* (*E.*) *villosa* O. S. Orillia, June 12, 1925 (C. H. C.); Pt. Pelee, June 24, 1925 (G. S. W.).

*E.* (*Ilisia*) *graphica* O. S. Chatham, May 21, 1925 (G. S. W.).

*E.* (*Hoplolabis*) *armata* O. S. Chatham, May 19, 1925 (G. S. W.); Bothwell, May 23, 1925 (G. S. W.).

*E.* (*Mesocyphona*) *caloptera* (Say). Bothwell, May 23, 1925 (G. S. W.).

*E.* (*M.*) *needhami* Alex. Orillia, June 11, 1925 (C. H. C.).

*Helobia hybrida* Meig. Orillia, June 10, 1925 (C. H. C.); Fisher's Glen, July 1, 1925 (G. S. W.).

*Gonomyia* (*Ptilostena*) *blanda* (O. S.). Orillia, June 10, 1925 (C. H. C.).

**Gonomyia (Gonomyia) currani** sp. n.

Belongs to the *subcinerea* group; rostrum light yellow; head dark gray; praescutum with three confluent grayish brown stripes; median area of scutum and the scutellum yellow; pleura yellow, the sternopleurite vaguely striped with reddish; knobs of halteres dusky; wings with  $Sc_1$  ending some distance beyond the origin of  $R_s$ ; male hypopygium with the basal spine of the dististyle very small, straight, the outer spine long and gently curved.

*Male*.—Length 3.8—4 mm.; wing 4.5—4.8 mm.

*Female*.—Length about 5.2 mm.; wing 6.4 mm.

Rostrum conspicuously light yellow; palpi dark brown. Antennae dark brown throughout. Head dark gray.

Pronotum light sulphur-yellow. Lateral pretergites bright yellow. Mesonotal praescutum with three confluent dark grayish brown stripes, the lateral margins and broad humeral angles yellowish; scutal lobes grayish brown, the median area of the scutum broadly light yellow; scutellum dark yellow with a dark median spot at base; postnotal mediotergite brownish gray medially, the lateral margins yellow, the caudal margin vaguely paler. Pleura sulphur-yellow dorsally, the ventral pleurites more whitish, the sternopleurite and a narrower, more dorsal line behind the fore coxa very pale reddish to produce a vague, longitudinally striped appearance. Halteres pale, the knobs weakly infuscated. Legs with the coxae light yellow; trochanters testaceous yellow; remainder of legs light brown, the terminal tarsal segments dark brown. Wings subhyaline or faintly tinged with brown, the stigma pale brown; veins a little darker brown. Venation:  $Sc_1$  ending some distance beyond the origin of  $R_s$ , the distance varying from about one-fourth to nearly one-half the length of the latter; cell  $R_2$  large; cell 1st  $M_2$  relatively small; *m-cu* close to the fork of  $M$ .

Abdominal tergites infuscated, the broad lateral margins and very narrow posterior margins of the segments yellow; sternites and hypopygium yellow. Male hypopygium with the inner dististyle on the outer margin with two chitinized spines; basal spine very small, straight and acute; outer spine very long, placed at near midlength of the style, curved gently, extending to beyond the apex of the style, the tip of the latter with powerful bristles and a few smaller setae. Gonapophyses unequal. Aedeagus terminating in a recurved acute spine.

*Habitat*.—Ontario.

*Holotype*.—♂, Orillia, June 7, 1925 (C. H. Curran).

*Allotopotype*.—♀, June 10, 1925.

*Paratopotypes*.—3 ♂♂, June 5-10, 1925 (C. H. Curran).

This interesting species of *Gonomyia* is named in honor of the collector, Mr. C. Howard Curran, to whom I am indebted for the loan of invaluable collections of Canadian Tipulidae.

*G. (G.) sulphurella* (O. S.). Orillia, June 12, 1925 (C. H. C.).

*G. (G.) subcinerea* (O. S.). Chatham, May 19, 1925 (G. S. W.).

*Liogma nodicornis* (O. S.). Bothwell, June 13, 1925 (G. S. W.); Normandale, June 29, 1925 (G. S. W.); Fisher's Glen, July 2, 1925 (G. S. W.).

*Phalacrocer a tipulina* O. S. Ottawa, May 29, 1925 (C. H. C.).

*Dolichozepe a americana* Ndm. Orillia, June 10, 1925 (C. H. C.).

*Tanyptera a topazina* (O. S.). Vineland, June 24, 1924 (W. G. Garlick).

- Prionocera fuscipennis* (Lw.). Pt. Pelee, June 19, 1925 (G. S. W.).  
*Tipula apicalis* Lw. Orillia, June 11, 1925 (C. H. C.).  
*T. angustipennis* Lw. Chatham, May 20, 1925 (G. S. W.).  
*T. bicornis* Forbes. Orillia, June 10, 1925 (C. H. C.); Severn, June 17, 1925 (C. H. C.).  
*T. grata* Lw. Fisher's Glen, July 1, 1925 (G. S. W.).  
*T. hebes* Lw. Orillia, June 10, 1925 (C. H. C.).  
*T. macrolabis* Lw. Orillia, June 10, 1925 (C. H. C.).  
*T. megaura* Doane. Walsh, July 3, 1925 (G. S. W.).  
*T. monticola* Alex. Orillia, June 10, 1925 (C. H. C.).  
*T. parshleyi* Alex. Bothwell, June 13, 1925 (G. S. W.).  
*T. senega* Alex. Orillia, June 7, 1925 (C. H. C.); Bothwell, May 23, 1925 (G. S. W.).  
*T. sarta* Lw. Orillia, June 7-10, 1925 (C. H. C.); Pt. Pelee, May 26, 1925 (G. S. W.).  
*T. strepens* Lw. Orillia, June 7, 1925 (C. H. C.); Putnam, June 26, 1925 (G. S. W.).  
*T. submaculata* Lw. Bothwell, June 13, 1925 (G. S. W.).  
*T. sulphurea* Doane. Ottawa, May 29, 1925 (C. H. C.).  
*T. taughanock* Alex. Orillia, June 14, 1925 (C. H. C.); Pt. Pelee, May 27-June 4, 1925 (G. S. W.).  
*T. tephrocephala* Lw. Orillia, June 7-8, 1925 (C. H. C.); Bothwell, June 13, 1925 (G. S. W.).  
*T. trivittata* Say. Orillia, June 10, 1925 (C. H. C.).  
*T. valida* Lw. Orillia, June 10, 1925 (C. H. C.).  
*T. vicina* Dietz. Orillia, June 11-14, 1925 (C. H. C.).  
*T. (Trichotipula) oropezoides* Johns. Orillia, June 7, 1925 (C. H. C.).  
*Nephrotoma brevioricornis* (Doane). Bothwell, June 13, 1925 (G. S. W.); Normandale, July 8, 1925 (G. S. W.).  
*N. ferruginea* (Fabr.). Normandale, June 30, 1925 (G. S. W.).  
*N. incurva* (Lw.). Orillia, June 10, 1925 (C. H. C.); Bothwell, June 13, 1925 (G. S. W.).  
*N. polymera* (Lw.). Normandale, July 8-10, 1925 (G. S. W.).  
*N. vittula* (Lw.). Orillia, June 11, 1925 (C. H. C.).