

THE CRANE-FLIES OF NEW YORK: FIRST SUPPLEMENTARY LIST.

Under the general title of "the Crane-flies of New York," the author has published two papers, the first dealing with the distribution and taxonomy of the group, and the second with the biology and phylogeny of these flies. Since the appearance of the general list of species, in which the species were enumerated as occurring in New York, several additional species have been found which are of interest to the Crane-fly collector. This additional list is made possible by the kind interest of several of the entomologists of New York City, chief of whom are Dr. Joseph H. Selys-Longchamps, Mr. William T. Davis, Mr. Howard Newman and Mr. Charles S. Davis. To all these gentlemen and others mentioned in this paper, the writer expresses his deep gratitude.

THE CRANE-FLIES OF NEW YORK: FIRST SUPPLEMENTARY LIST.

The additions to the Crane-fly list are as follows:
 1. *Trichopoda (Trichopoda) ...* (Described in this paper.)
 2. *Trichopoda (Trichopoda) ...* (Howard Newman.)
 3. *Trichopoda (Trichopoda) ...* (Cass. Entom. Vol. 31, p. 100: 1001.)
 4. *Trichopoda (Trichopoda) ...* (W. T. Davis.)
 5. *Trichopoda (Trichopoda) ...* (Jas. H. Selys-Longchamps.)
 6. *Trichopoda (Trichopoda) ...* (Vol. 7, pp. 100: 1001.)
 7. *Trichopoda (Trichopoda) ...* (T. A. Wood.)
 8. *Trichopoda (Trichopoda) ...* (Jas. H. Selys-Longchamps.)
 9. *Trichopoda (Trichopoda) ...* (T. A. Wood.)
 10. *Trichopoda (Trichopoda) ...* (Jas. H. Selys-Longchamps.)
 11. *Trichopoda (Trichopoda) ...* (T. A. Wood.)
 12. *Trichopoda (Trichopoda) ...* (Jas. H. Selys-Longchamps.)
 13. *Trichopoda (Trichopoda) ...* (T. A. Wood.)
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 17. *Trichopoda (Trichopoda) ...* (T. A. Wood.)
 18. *Trichopoda (Trichopoda) ...* (Jas. H. Selys-Longchamps.)
 19. *Trichopoda (Trichopoda) ...* (T. A. Wood.)
 20. *Trichopoda (Trichopoda) ...* (Jas. H. Selys-Longchamps.)

THE CRANE-FLIES OF NEW YORK: FIRST SUPPLEMENTARY LIST.

BY CHARLES P. ALEXANDER, Amherst, Mass.

Under the general title of "The Crane-flies of New York," the writer has published two papers, the first¹ dealing with the distribution and taxonomy, the second² with the biology and phylogeny of these flies. Since the appearance of the general list of species,¹ in which 267 species were enumerated as occurring in New York, ten additional species have been found which are recorded in this paper. This additional list is made possible by the kind interest of several of the entomologists of New York City, chief of whom are Dr. Joseph Bequaert, Mr. William T. Davis, Mr. Howard Notman and Mr. Charles Schaeffer. To all these gentlemen and others mentioned in this paper, the writer expresses his deep gratitude.

The additions to the list of New York Crane-flies are as follows:

268. *Dicranomyia adirondacensis*, sp. n. (Described in this paper.)
Essex County: Keene Valley, September 13, 1920 (Howard Notman).
269. *Tricyphona macateei* Alexander. (Can. Ent., Vol. 51, p. 166; 1919.)
Suffolk County: Wyandanch, May 5, 1911 (W. T. Davis).
270. *Ormosia adirondacensis* Alexander. (Ins. Inscit. Menst., Vol. 7, pp. 145, 146; 1919.)
Fulton County: Mountain Lake, June 17, 1914; Woodworth's Lake, June 17, 1916; Gloversville, June 22, 1916 (Alexander); T. L.
271. *Ormosia dentifera* Alexander. (Ins. Inscit. Menst., Vol. 7, pp. 144, 145; 1919.)

¹ "The Crane-flies of New York, Part I, Distribution and Taxonomy of the Adult Flies," Cornell Univ. Agr. Expt. Sta., Mem. 25, pp. 767-993; June, 1919 (issued October, 1919).

² The same, Part II, "Biology and Phylogeny," Cornell Univ. Agr. Expt. Sta., Mem. 38, pp. 692-1133; June, 1920 (issued July, 1921).

- Essex County: Keene Valley, May 29, 1920 (Howard Notman).
272. *Ormosia notmani* Alexander. (Can. Ent., Vol. 52, p. 255; 1920.)
Essex County: Keene Valley, May 26, 1920 (Howard Notman); T. L.
273. *Cylindrotoma americana* Osten Sacken.
Essex County: Mt. Marcy, altitude 4,000-5,000 feet, July 24, 1920 (Howard Notman).
274. *Nephrotoma euceroideis* Alexander. (Can. Ent., Vol. 51, p. 172; 1919.)
Fulton County: Sport Island, Sacandaga River, June 16, 1910 (Alexander).
275. *Tipula annulicornis* Say.
Suffolk County: Riverhead, July 19, 1918 (Wm. T. Davis) (♀, *jejuna* Johnson).
276. *Tipula manahatta* Alexander. (Can. Ent., Vol. 51, pp. 169, 170; 1919.)
Suffolk County: Yaphank, September 3-4 (Charles Schaeffer); T. L.
277. *Tipula noveboracensis* Alexander. (Can. Ent., Vol. 51, pp. 167, 168; 1919.)
Essex County: Keene Valley, May 26-29, 1920 (Howard Notman).
Fulton County: Gloversville, June 24, 1916 (Alexander); T. L.
Albany County: Thachers Park, May 29, 1920 (Sherman C. Bishop).
Tompkins County: Ithaca, May 24, 1898; May 12, 1915 (Alexander).

In the above list, references to species are given only when they do not occur in the main list; as before the initials T. L. indicate the Type Locality for the species.

Besides the ten species just recorded that are entirely new to the New York list, a number of very interesting records of other species have come to hand. In order to make certain of these records available to the proposed Adirondack List, the species taken by Mr. Notman in Essex County are here recorded:

KEENE VALLEY, ESSEX COUNTY (HOWARD NOTMAN).

- Bittacomorpha clavipes* (Westwood); May 28, 1920.
Dicranomyia adirondacensis, sp. n.; September 13, 1920.
D. liberta O. S.; June 19–August 12, 1920; at light.
D. immodesta O. S.; September 13, 1920; at light.
D. simulans (Walk.); August 19, 1920; at light.
D. macateei Alex.; June 28, 1920.
Limnobia triocellata O. S.; August 4, 1920.
L. solitaria O. S.; June 3, 1920.
L. immatura O. S.; June 11, 1920.
L. cinctipes Say; June 3, 1920.
L. indigena O. S.; June 9–August 9, 1920; at light.
Rhipidia fidelis O. S.; August 6, 1920; at light.
R. maculata Mg.; September 13, 1920; at light.
Discobola argus (Say); October 1, 1920.
Antocha saxicola O. S. (*opalizans* form); August 13, 1920; at light.
Dicranoptycha germana O. S.; August 6, 1920; at light.
Ula paupera O. S.; June 6, 1920.
Epihragma fascipennis (Say); May 30, 1920.
Dactylolabis montana (O. S.); June 4–6, 1920.
Limnophila brevifurca O. S.; May 26, 1920.
L. fratria O. S.; July 26, 1920.
L. (Ephelia) aprilina O. S.; May 26, 1920.
L. (Prionolabis) rufibasis O. S.; May 30, 1920.
Pilaria tenuipes (Say); August 12, 1920; at light.
Pedicia contermina Walk.; May 25, 1920.
Tricyphona inconstans (O. S.); May 29, 1920.
T. autumnalis Alex.; July 27, 1920; at light.
T. vernalis (O. S.); May 29, 1920.
Dicranota noveboracensis Alex.; May 26, 1920.
Molophilus pubipennis (O. S.); August 11, 1920; at light.
Erioptera (Erioptera) septemtrionis O. S.; August 7–16, 1920; at light.
E. (Empeda) stigmatica (O. S.); August 4, 1920.
Ormosia nubila (O. S.); August 25–September 6, 1920; at light.
O. nigripila (O. S.); June 4, 1920.
O. meigeni (O. S.); June 3–4, 1920.
O. notmani Alex.; May 26, 1920.
O. dentifera Alex.; May 29, 1920.
Gonomyia mathesoni Alex.; August 10, 1920; at light.
G. subcinerea O. S.; August 10, 1920; at light.
Cladura flavoferruginea O. S.; September 13–22, 1920; at light.

- Liogma nodicornis* (O. S.); June 14, 1920.
Oropeza venosa Johns.; June 22, 1920.
Dolichopeza americana Ndm.; June 16, 1920.
Tanyptera frontalis (O. S.); June 11, 1920.
Tipula nobilis (Lw.); June 17, 1920.
T. ultima Alex.; October 2, 1920.
T. angustipennis Lw.; May 26–June 11, 1920.
T. sarta Lw.; June 4, 1920.
T. senega Alex.; June 9, 1920.
T. dejecta Walk.; May 26, 1920.
T. iroquois Alex.; May 26–June 9, 1920.
T. eluta Lw.; May 29, 1920.
T. noveboracensis Alex.; May 26–29, 1920.
T. sayi Alex.; August 9, 1920; at light.
T. cayuga Alex.; June 4, 1920.
T. apicalis Lw.; June 22–July 8, 1920.
T. fultonensis Alex.; May 30, 1920.
T. macrolabis Lw.; June 16–22, 1920.
T. submaculata Lw.; June 22, 1920.
T. parshleyi Alex.; June 12–19, 1920.
T. abdominalis (Say); June 9–August 2–7, 1920; at light.
Nephrotoma incurva (Lw.); June 22, 1920.
N. lugens (Lw.); May 30–June 4, 1920.
N. ferruginea (Fabr.); June 3–August 9, 1920.
N. tenuis (Lw.); June 7, 1920.
N. polymera (Lw.); June 19, 1920.
N. eucera (Lw.); June 7, 1920.

AUSABLE LAKE, ESSEX COUNTY (HOWARD NOTMAN).

- Limnophila areolata* O. S.; July 19, 1920.
Phalacrocer tipulina O. S.; July 30, 1920.

MT. MARCY, ESSEX COUNTY, ALTITUDE 4,000–5,000 FEET (HOWARD NOTMAN).

- Limnophila areolata* O. S.; July 25, 1920.
L. (Prionolabis) munda O. S.; July 24, 1920.
Tricyphona calcar (O. S.); July 21, 1920.
Erioptera (Empeda) stigmatica (O. S.); July 23–24, 1920.
Ormosia mesocera Alex.; July 21–24, 1920.
Cylindrotoma americana O. S.; July 24, 1920.
Dolichopeza americana Ndm.; July 23–24, 1920.
Tipula hermannia Alex.; July 24, 1920.

CLIFF MT., ESSEX COUNTY, ALTITUDE 3,500 FEET (HOWARD NOTMAN).

- Dactylolabis montana* (O. S.); July 27, 1920.

Dicranomyia adirondacensis n. sp.

General coloration dark brown with a microscopic gray pubescence that appears like a bloom; rostrum short, dark brown; antennae dark brown throughout; mesonotal praescutum dark brown medially; wings hyaline, stigma indistinct; Sc short, Sc_2 far from the tip of Sc_1 ; Rs short, angulated and spurred; cell 1st M_2 closed.

Male.—Length about 4 mm.; wing, 4.3 mm.

Rostrum short, dark brown; palpi dark brown. Antennae dark brown throughout; flagellar segments oval. Head gray, the vertex between the eyes a little suffused with rufous.

Pronotum and mesonotum with the mid-dorsal region dark brown, the lateral portion densely covered with a yellowish gray, appressed, pubescence that resembles a pruinosity; remainder of mesonotum similarly colored. Pleura and mesosternum dark brown with a microscopic gray pubescence. Halteres of normal length, yellow, the knobs brown. Legs with the coxae concolorous with the pleura; trochanters obscure yellow; femora brown, paler basally; tibiae and tarsi dark brown. Wings hyaline, stigma indistinct; veins dark brown. Venation: Sc_1 ending far before the short sector, Sc_2 far from the tip of Sc_1 , the latter alone being longer than the sector; Rs angulated and with a long spur just before midlength; r at tip of R_1 , the basal section of R_{2+3} a little shorter than the deflection of R_{4+5} ; inner end of cell 1st M_2 distad of inner end of cell R_3 ; cell 1st M_2 closed; basal deflection of Cu_1 just before the fork of M , a little longer than Cu_2 .

Abdomen dark brown, the sternites scarcely paler. Male hypopygium with the pleurites comparatively small; ventral pleural appendage very large, much larger than the pleurites, the mesal face produced into a long rostrum that is directed strongly cephalad, near midlength with two stout spines. Gonapophyses with the caudal margin bearing a deep notch, the lateral angles being slightly produced into a shoulder; in *brevivena* the apophyses slope rapidly away from the apical point. *Habitat*: New York.

Holotype, ♂, Keene Valley, Essex County, September 13, 1920 (Howard Notman). Paratopotype, ♂.

Type in the writer's collection.

Dicranomyia adirondacensis is closely allied to *D. brevivena* O. S., differing in the coloration of the rostrum, the venation and slight details of structure of the hypopygium.