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A Revision of the List of Tabanidae (Diptera) Known to Occur in Iowa

By KEITH SUTTON AND D. D. MILLSAUGH

A preliminary list of the Tabanidae known to occur in Iowa was published in the proceedings of the 1936 Iowa Academy of Science by L. K. Cutkomp and Dr. H. E. Jaques.

The Tabanidae is a family of medium to large flies, commonly called horse flies and deer flies.

Their wings are usually somber colored and may be either clear or cloudy. Their head is large, contiguous or holoptic in some males, while the eyes of other males and all females are dioptic, naked or hairy. Their eyes may be banded with green, red, and other metallic colors. Ocelli may be present or absent. Their antenna may be long or short, with two distinct basal segments, followed by three to eight fused terminal segments. There is neither a style nor an arista. Their wings have two submarginal and five posterior cells; the basal cell is large, and the anal cell is usually closed; the squama is large. The mouth parts are for piercing and sucking. The legs are stout and the middle tibia bear two spurs. The hind tibia may be either with or without spurs. Their abdomen is pubescent and broad with seven visible segments.

Females of this family are blood thirsty. They attack horses, cattle, and man as well as other animals. The males do not suck blood but feed on nectar and pollen.

There are about 2,500 species distributed throughout the world. The present list contains forty nine species which have been collected in the state of Iowa.

Dr. Alan Stone of the U. S. Bureau of Entomology, Washington, D. C., and Dr. Cornelius B. Philip, Principal Medical Entomologist of the Rocky Mountain Laboratory, Hamilton, Montana have determined most of these specimens.

The following list includes those original thirty-four species previously reported by Cutkomp and Jaques. The fourteen species and one subspecies which are being added to this list are preceded by an asterisk.

- **Atylotus bicolor* Wied.
- Chrysops callidus* O. S.
- Chrysops carbonarius* Wlk.
- **Chrysops flavidus* Wied.
- **Chrysops indus* O. S.
- Chrysops hinei* Doecke

- Chrysops fulvaster* O. S.
Chrysops aestuana V. d. Wulp
Chrysops moerens Wlk.
 **Chrysops niger* Macq.
Chrysops obsoletus Wied.
Chrysops wiedemanni Kr.
Chrysops sackeni Hine
Chrysops striatus O. S.
Chrysops vittatus Wied.
Chrysops pikei Hine
Chrysops sequax Will.
 **Hybomitra epistates* (O. S.)
 **Hybomitra illota* (O. S.)
 **Hybomitra lasiophthalma* (Macq.)
 **Silvius quadrivittatus* (Say)
Tabanus atratus Fab.
Tabanus bicolor Wied.
Tabanus costalis Wied.
Tabanus exul O. S.
Tabanus giganteus DeG.
Tabanus illotus O. S.
Tabanus lasiophthalmus Macq.
Tabanus fulvulus Wied.
Tabanus equalis Hine
Tabanus frontalis Walk.
 **Tabanus orbicallus* Phil.
 **Tabanus abdominalis* F.
Tabanus lineola Fab.
 **Tabanus lineola scutellaris* Walk.
 **Tabanus longus* O. S.
Tabanus nigrescens Palisot de Beauvais
Tabanus ohioensis Hine
Tabanus punilus Macq.
Tabanus molestus Say
 **Tabanus quinquevittatus* Wied.
Tabanus reimwardtii Wied.
Tabanus stygius Say
Tabanus sulcifrons Macq.
Tabanus trimaculata Palisot de Beauvais
Tabanus stigma Fab.
Tabanus venustus O. S.
 **Tabanus sackeni* Fairch.
 **Tabanus vicarius* Walk.

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