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TABLE OF CONTENTS.

HINE—Five New Species of North American Tabanidae.....	513
DETMERS—A Preliminary Report on a Physiographic Study of Buckeye Lake and Vicinity.....	517

FIVE NEW SPECIES OF NORTH AMERICAN TABANIDÆ.

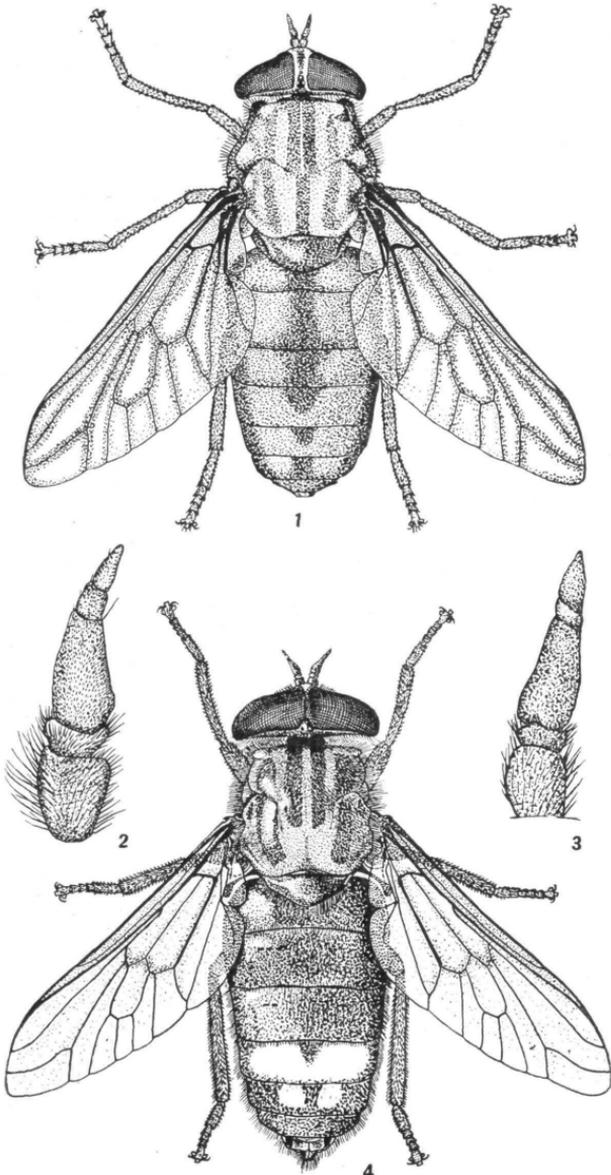
JAS. S. HINE.

Tabanus floridensis n. sp.

Female, length 10 millimeters. Size and general appearance similar to *T. pumilus* from which it differs by the distinctly wider front. Frontal collosity transverse, as wide as the front, shining black and with a small denuded marking above it. Antenna narrow, distinctly narrower than in *pumilus*, first and second segments pale with black hairs above, third segment nearly black; face clothed with long white hair, palpi narrow, pointed, and clothed with short white hair, proboscis dark, eyes naked. Thorax dark gray above with lighter stripes, wings hyaline, furcation of the third vein without a fork, legs dark reddish. Abdomen dark colored, hind margins of the segments, a series of more or less plainly marked middorsal triangles and a row of rather large spots on either side gray.

Type female from Fort Meade, Florida, April 4, 1909. Twelve other females taken at different places in southern Florida in April.

Although the species suggests *pumilus* it is entirely distinct. The front is much wider, the antennæ are narrower, the legs are colored differently and the gray spots on either side of the abdomen are larger. It is distinct from *sparus* and *fratellus* also, as will be found by comparing these same characters.



1. *Merycomyia mixta*.
2. Antenna of *M. geminata*.
3. Antenna of *M. mixta*.
4. *Merycomyia geminata*.

***Tabanus fulvistriatus* n. sp.**

Female, length 8 millimeters. Antennæ yellow, sides of the front nearly parallel, frontal callosity shining black, prominent, occupying the entire width of the front and with a raised line connects with the upper side. A denuded spot at vertex but no ocelli present. Thorax brown without stripes, wings dilute brownish; legs largely yellow, front femora brown, apical half of front tibiæ and entire tarsi black, other legs with each tibia narrowly brown at apex and each tarsus almost wholly black beyond the apex of the metatarsus. Abdomen brown in ground color, a wide middorsal stripe and lateral and hind margins of the segments pale yellow; venter pale at base, darkened toward the apex.

The type female and one other specimen taken at Dona Maria, Chiapas, Mexico, by D. L. Crawford.

This fly shows some resemblance to *Tabanus unistriatus* of Costa Rica and appears to be related to *T. maculifrons* of Guatemala. The small size, together with the wide middorsal abdominal stripe easily designates the species however.

***Merycomyia* n. gen.**

Closely resembling *Tabanus*, but distinct on account of the presence of well developed ocelli in both sexes and the anomalous antennæ which show only three annulations in the third segment instead of five, although this last character shows some tendency to vary. Eyes naked, no spurs at the apex of the hind tibia, wing venation as in *Tabanus*, anal cell closed and petiolate. No stump on the anterior branch of the third vein. Type species *Merycomyia geminata*.

There are in my collection three specimens of two distinct species of this genus. I have held these specimens a long time and have compared many descriptions without finding anything that suited, hence the conclusion to refer them to a new genus.

***Merycomyia geminata* n. sp.**

Male, length 21 millimeters. A dark colored species with pale brownish wings. Third segment of the antenna largely reddish, proboscis short and dark colored, eyes contiguous, ocelli prominent. Thorax dark colored with the usual gray stripes, all the femora dark reddish, tibiæ darker, tarsi black; wings brownish gray with the veins in the anterior part quite plainly margined with brown. Abdomen nearly black, slightly reddish on the sides, fourth segment with a large transverse gray patch which is plainly indented anteriorly on the middorsal line by a black triangle, fifth segment with two small gray spots.

Female much like the male but more reddish in ground color, eyes widely separated, front slightly widest below with a rather extensive denuded patch but no distinct frontal callosity. Total length slightly less than the male measurement.

The type male from which the accompanying drawing was made, was taken at Lyme, Ct., by B. H. Walden, and sent in by Dr. W. E. Britton. The female was procured at Wheatlands, Indiana, by Harold Morrison.

The widely separated localities at which the specimens were taken indicates that the species has an extensive distribution. There does not appear to be the least doubt but that the two specimens in my possession are sexes of the same species.

***Merycomyia Mixta* n. sp.**

Female, length 21 millimeters. General color reddish brown. Eyes widely separated, front slightly widest below with an elongate denuded patch which narrows to a point above. Ocelli conspicuous. Thorax gray with darkened stripes above; wings wholly brown anteriorly, veins widely margined with the same color posteriorly, legs brown. Abdomen reddish brown with the lateral margins and a middorsal marking nearly black, venter rather dark.

The type female from which the accompanying drawing was taken was procured at Bainbridge, Georgia, by J. C. Bradley, June 2, 1911.

***Stibosoma flavistigma* n. sp.**

Female, length 17 millimeters. A black species with apex of the wings hyaline and a yellow marking including the stigma and reaching from the costa to the opposite side of the discal cell.

Front and face black, antenna with the basal process of the third segment much produced. Thorax black, legs with all the tibiae somewhat swollen, wing black, except the apex is hyaline and a patch in the region of and including the stigma is yellow; knob of the halteres green. Abdomen black, narrow margins of all of the segments, both dorsally and ventrally, gray.

Type female, taken in Vera Cruz, Mexico, by D. L. Crawford.