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Article III.—INSECTS OF FLORIDA.

I. DIPTERA.

Div. Insects
Nat. Mus.

BY CHARLES W. JOHNSON.

In 1895 the writer prepared a list of the Diptera of Florida,¹ based chiefly on material collected while living in St. Augustine, 1880-88, a collecting trip in March, 1891, and again in 1894, a collection made by Mrs. Annie Trumbull Slosson, the collection of Mr. Charles Robertson, and the collection of the U. S. National Museum. The list contained about 450 determined species.

Since that time Mrs. Slosson has continued collecting during her winter visits, thus securing a number of new and interesting species, many of which were determined by the late D. W. Coquillett. The American Museum of Natural History has sent several expeditions to the State and much valuable material was obtained by Dr. Frank E. Lutz and Mr. John A. Grossbeck. Mr. Millard C. Van Duzee in the Spring of 1908 added many interesting species and data. To Messrs. Wm. T. Davis, C. H. T. Townsend, J. Chester Bradley, C. P. Whitney and Philip Laurent I am also indebted for a number of additional species and data.

In this list I have tried to give sufficient synonymy and notes so that where I have corrected the previous list the names of the two can always be correlated notwithstanding the great changes that have taken place in the nomenclature. To keep abreast of the changes which are constantly being made, I have been obliged to discard many of the genera used in Aldrich's catalogue. While I do not favor radical changes in a faunal list, it does not seem desirable to longer perpetuate names that we know will have to be changed, and the sooner these older names are adopted, the better it will be for dipterology. There are also many other names (barring those in Meigen's first paper), that probably should have been changed, viz. *Rhagio* for *Leptis*, *Anthrax* for *Spogostylum*, *Villa* for *Anthrax* of authors, *Eicherax* for *Erax*, etc., but many of these changes are too radical for a paper of this kind, and further discussion seems necessary before they are finally adopted.

The author has endeavored wherever possible, to verify doubtful determinations and records, but in some families it has been impossible to do so, owing to the difficulty in obtaining sufficient material.

The present list contains 845 species. As many of the species in the

¹ Proc. Acad. Nat. Sci., Philadelphia, 1895, pp. 303-340.

Paratissa pollinosa Will. Biscayne Bay and Lake Worth (Mrs. Slosson); Punta Gorda, Nov. 11.

GEOMYZIDÆ.

→ *Spilochroa ornata* Johnson. (*Heterochroa ornata*.) Drayton Island, May 9 (C. W. J.); Biscayne Bay, Mar. (Mrs. Slosson); Crescent City, Apr. 24 (Van Duzee).

→ *Anthomyza nigrimana* Coq. Biscayne Bay, Mar. (Mrs. Slosson). Does not belong to this genus (Hendel).

AGROMYZIDÆ.

Agromyza æneiventris Fall. Biscayne Bay and Lake Worth (Mrs. Slosson); Titusville, Nov. 8; Miami, Nov. 5; Key Largo, Nov. 6.

Agromyza jucunda v. d. Wulp. Georgetown, May 9 (C. W. J.); Biscayne Bay (Mrs. Slosson).

Agromyza melampyga Loew. Biscayne Bay (Mrs. Slosson).

Agromyza neptis Loew. "Fla." (Coquillett).

Agromyza setosa Loew. Palatka, May 19.

Agromyza terminalis Coq. Welaka, May 9.

Agromyza trifolii Burgess. Biscayne Bay (Mrs. Slosson).

Agromyza viridula Coq. Titusville, Nov. 6.

→ *Desmometopa m-nigrum* Zett. Biscayne Bay and Fort Worth (Mrs. Slosson).

Desmometopa tarsalis Loew. Biscayne Bay (Mrs. Slosson). → *Melichilla* w. c. w. acc. to Fabr. '87

Madiza halteralis Coq. Lake Worth (Mrs. Slosson).

? *Rhinoëssa albula* Loew. Lake Worth and Atlantic Beach (Mrs. Slosson).

Milichiella arcuata Loew. (*Lobioptera arcuata*.) Ormond and Biscayne Bay (Mrs. Slosson).

Milichiella lacteipennis Loew. (*Lobioptera lacteipennis*.) Charlotte Harbor and Jacksonville (Mrs. Slosson).

Phleomyia indecora Loew. (*Lobioptera indecora*.) Jacksonville and Biscayne Bay (Mrs. Slosson).

Phleomyia robertsoni Coq. Inverness (Robertson).

Leucopis bella Loew. Horse Landing, St. Johns River, May 17 (C. W. J.); Crescent City (Hubbard); Biscayne Bay (Mrs. Slosson).

Leucopis nigricornis Egger. "Florida" (Coquillett).

Acrometopa punctata Coq. Jacksonville (Mrs. Slosson).

Acromyza dubicornis Mg. Florida

= fruit L.

of artichoke

son).
adrimaculata

Charlotte

); Ormond,
son).

i).

son).

i).

D. adspersa
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on each side,
cellar bristles
rista brown.
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) and evenly
s. Halteres

. Holotype