

(Johnson) 1895
Coquillett 2

A. L. WELANDER
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1895.]

NATURAL SCIENCES OF PHILADELPHIA.

303-340

DIPTERA OF FLORIDA.

BY C. W. JOHNSON.

With Additional Descriptions of New Genera and Species.

BY D. W. COQUILLET.

This paper is based upon material collected during a residence in St. Augustine from 1880-88 (although then not especially interested in Diptera); a visit in March, 1891, and again in May, 1894; a collection made by Mrs. Annie T. Slosson during her winter visits; the collection of Mr. Chas. Robertson, of Carlinville, Ill.; an interesting lot received from Mr. Frank H. Genung of St. Augustine, and the collection of the U. S. National Museum. The trip of May, 1894, was a conchological one, made in company with Prof. H. A. Pilsbry, through the kindness of Mr. Clarence B. Moore, Diptera being an incidental feature. The localities Welaka, Georgetown, Drayton Island, Juniper Creek, Volusia, Astor, and Tick Island are all in the vicinity of Lake George and Lake Woodruff. Considering the few species that have actually been recorded from Florida the following list seems a large one, but there is little doubt that this number (504) can be increased more than three times if collections were made in all sections of the State and at different seasons of the year. A number of West Indian species are here recorded from Florida for the first time as well as the most southern distribution of many northern species. A collection from the Florida Keys would undoubtedly increase the percentage of West Indian species, while the western part of the State would add many more species of the Mississippi Valley, Texas, and Mexico.

While a resident of Florida I was interested in Coleoptera, and the valuable paper, "The Coleoptera of Florida," by Mr. E. A. Schwarz, suggested this list. I only regret that it is not a more complete representation of the fauna, but hope that it will lead to a better knowledge of the Diptera of Florida.

I am under great obligations to Mr. D. W. Coquillett of Washington, D. C. Without his generous aid this list could not have

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- PARYDRA sp. Charlotte Harbor (Mrs. Slosson).
 EPHYDRA SUBOPACA Loew. Charlotte Harbor, February (Mrs. Slosson).
 EPHYDRA NANA Walk. Ormond (Mrs. Slosson).
 SCATELLA LUGENS Loew. Ormond (Mrs. Slosson).
 CÆNIA SPINOSA, Loew. St. Augustine.

GEOMYSIDÆ.

- HETEROCHROA ORNATA Johnson. Drayton Island, May 9.

DROSOPHILIDÆ.

- DROSOPHILA AMPELOPHILA Loew. St. Augustine; Ormond;
 Charlotte Harbor (Mrs. Slosson).
 DROSOPHILA QUADRIMACULATA Walk. Charlotte Harbor (Mrs. Slosson).
 DROSOPHILA PUNCTULATA Loew. St. Augustine, March.
 DROSOPHILA MACULOSA Coq. Charlotte Harbor (Mrs. Slosson).
 DROSOPHILA VITTATA Coq. Charlotte Harbor (Mrs. Slosson).
 DROSOPHILA GUTTIFERA Walk. (Walker.)

OSCINIDÆ.

- CRASSISETA FORMOSA Loew. Ormond (Mrs. Slosson).
 CRASSISETA COSTATA Loew. St. Augustine, March.
 HIPPELATES CONVEXUS Loew. St. Augustine, March.
 OSCINIS, sp. Charlotte Harbor (Mrs. Slosson).
 MEROMYZA AMERICANA Fitch. St. Augustine.
 SIPHONELLA CINEREA Loew. Charlotte Harbor (Mrs. Slosson).
 CHLOROPS PUBESCENS Loew. St. Augustine; Orlando, March 16
 (Robertson).
 CHLOROPS GRATA Loew. St. Augustine.
 CHLOROPS TRIVIALIS Loew. St. Augustine.
 CHLOROPS ABDOMINALIS Coq. Charlotte Harbor (Mrs. Slosson).

AGROMYZIDÆ.

- LOBIOPTERA ARCUATA Loew. (Robertson); Ormond (Mrs. Slosson).
 LOBIOPTERA INDECORA Loew. (Robertson).
 LOBIOPTERA LACTEIPENNIS Loew. Charlotte Harbor (Mrs. Slosson).
 LEUCOPIS BELLA Loew. Horse Landing, St. John's River, May 17; Crescent City (Hubbard).