Mlantel fan, 27. 1914

Johnson 1813 (1914)

THE DIPTERAN FAUNA OF BERMUDA.

By CHARLES W. JOHNSON.

Since publishing a list of the Diptera of Bermuda in 1904, (Psyche, vol. XI, pp. 76-80), I have received a number of specimens from Professor Trevor Kincaid, collected in the summer of 1905, and from Mr. Frank Morton Jones, collected December, 1908-May, 1909, and Dr. Reynold A. Spaeth, collected in the summer of 1910. The material thus obtained at various seasons of the year together with the notes kindly furnished by Mr. Jones, greatly increase our knowledge of the Diptera of the Islands. The study of this material has brought out many interesting points in distribution, some of "the species derived from the mainland having become either slightly or decidedly differentiated.

The previous list contained about fifty species. Little of the data has been repeated, although all of the species are included in the following list, which contains about ninety-five species.

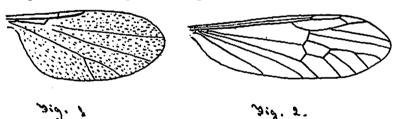
TIPULIDAE.

Tipula costalis Say. "This fly was abundant at Paget Marsh in February and March, but seemed to completely disappear later." (F. M. Jones).

Dicranomyia liberta Osten Sacken. July 7, at light, (Kincaid), Feb. 14 (F. M. Jones).

Gonomyia (Leiponeura) pleuralis Will. This seems to be the most common Tipulid and the one previously recorded as *Dicranomyia distans*, Osten Sacken. It was taken by Professor Kincaid, July 5 and 20, and by Mr. F. M. Jones, Feb. 19 and May 6 and 8.

Limnophila insularis sp. nov. Fig. 2.



This species has a general resemblance to *L. recondita* Osten Sacken. The antennæ in both sexes are of equal length, light yellow, flagellum dark brown, the verticilli much shorter than in *L. recondita*. Head blackish, covered with a greyish bloom. Thorax shining brown, pleura dull yellow with a greyish bloom. Abdomen dark brown,

Aciura insecta Loew. June 26 (Kincaid); Spanish Point, July 5th (Spaeth).

Ensina picciola Bigot, (Trypeta humilis Loew). Abundant in sweep-net, December 8 and 29 and May 17 (F. M. Jones). Road from Hamilton to Grasmere June 26 and Spanish Point July 5 (Spaeth).

SEPSIDÆ.

Sepsis violacea Meigen. "Common January 21 and April 29 (F. M. Jones); June 30 and July 29 (Kincaid); Spanish Point, July 5 (Spaeth). Piophila casei Linné. The cheese fly. Recorded by Prof. Verrill.

Mosillus nana Walker? (Ephydra nana Walker, Trans. Ent. Soc., London, N. Ser. IV, 234, 1857). July 30 (Kincaid); Spanish Point, July 5 (Spaeth).

Ephydra austrina Coquillett. One specimen collected by C. A. Davis.

Hippelates plebeius Loew. June 28 and 30 (Kincaid); Agar's Island, June 18 (Spaeth).

Hippelates pusio Loew. July 12 (Kincaid).
Oscinis coxendix Fitch. Common: June 30 and July 12-18 (Kincaid); February 4 (F. M. Jones); near Hamilton, June 26 and Spanish Point, July 5 (Spaeth).

Oscinis trigramma Loew. July 11, 15 and 26 (Kincaid).

Oscinis umbrosa Loew. Common, June 25 to July 29 (Kincaid). DROSOPHILIDÆ.

Drosophila adusta Loew. July 25, 29 (Kincaid); February 4 (F. M. Jones).

Drosophila ampelophila Loew. January 7 (F. M. Jones).

Drosophila repleta Wollaston, (D. punctulata Loew, Berl. Ent. Zeits., VI, 232, 1862; D. adspersa Mik, Wien. Ent. Zeitzg. V. 328, 1886.) January 1 and May 6 (F. M. Jones).

Paratissa pollinosa Williston, July 10 (Kincaid); December 24 and March 6, on sea-weed (F. M. Jones).

Phytomyza sp. January 27, February 24 (F. M. Jones). Agromyza æneiventris Fallen. July 1 (Kincaid). Agromyza pusilla Meigen. July 5 (Kincaid). Agromyza maculosa Malloch. May 17 (F. M. Jones). Desmometopa m-nigrum Zetterstedt, May 9 (F. M. Jones). Milichiella lacteipennis Loew, (Ophthalmomyia lacteipennis). 12 and 28 (Kincaid); Spanish Point, July 5 (Spaeth).

BIBLIOGRAPHY OF THE WORKS PERTAINING TO THE DIPTERA OF BERMUDA.

The Naturalist in Bermuda by J. Matthew Jones, page 123. Visitors' Guide to Bermuda by J. Matthew Jones, page 143. Observations on the Insects of Bermuda by Dr. P. R. Uhler, In the Bermuda 1876. 1889.

Islands, by Angelo Heilprin, pages 152-158.

1892. Land Fauna of the Bermuda, by Dr. Fred Dahl, Plankton Expedition, vol. 1, A, page 109.

2. The Bermuda Islands, by Prof. A. E. Verrill, Trans. Connecticut Acad. Arts and Science, vol. XI, pages 740-749.
A Revised List of the Diptera of Bermuda, by Charles W. Johnson, Psyche,

vol. XI, pages 76-80.