

Johnson 1904

A REVISED LIST OF THE DIPTERA OF BERMUDA.

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THE following list which comprises all previous records, together with several additional species collected by Mr. C. Abbott Davis is brought together to show concisely our present knowledge of the Diptera of the Bermudas, and the work necessary to a more satisfactory condition.

The first recorded Diptera were a few without positive determination in "The Naturalist in Bermuda" by J. Matthew Jones, page 123, 1859. In the "Visitor's Guide to Bermuda" by the same author, 1876, page 143, is a list of seven species determined by Baron Osten Sacken, and two by Walker. Dr. P. R. Uhler ("Observations on the insects of the Bermudas,") in "The Bermuda Islands" by Angelo Heilprin pages 152-158, 1889, records three species. Dr. Fred. Dahl, "Land-fauna of the Bermudas," Plankton Expedition, Vol. I, A, 1892, page 109, records about eight species. The most complete account bearing on the Diptera is that given by Prof. A. E. Verrill in his work "The Bermuda Islands," published in the Transaction of the Connecticut Academy of Arts and Sciences, Vol. XI, pages 740-749, 1901-02. In this work about thirty-three are recorded.

The present list contains about fifty species: of this number, fifteen have been added by the collections made by Mr. Davis during a part of July and August, 1903, and one by Mr. T. L. Montgomery in March, 1897. The fauna seems for the most part to have been derived from the United States and West Indies, and is probably being gradually augmented from these sources. The richness of the flora would indicate a greater number of species and careful collecting at all seasons of the year will undoubtedly add many species to the fauna.

TIPULIDAE.

Dicranomyia distans O. S. This seems to be the only species recorded. Prof. Verrill refers to several undetermined species, and Mr. Davis captured *Pachyrrhina ferruginea* Fabr. on the vessel *en route*.

CULICIDAE.

Culex sollicitans Walk. Several specimens of this and the following species were taken by Mr. Davis, July 24 and 25.
Culex tenuiorhynchus Wied., July 25.
Culex fatigans Wied. This species is recorded by Theobald in his Monograph

EPHYDRIDAE.

Ephydra austrina Coq. One specimen collected by Mr. Davis.

Paratissa pollinosa (Will.). A number of specimens were collected by Mr. Davis, August 5.

DROSOPHILIDAE.

Drosophila punctulata Loew. A number of specimens were obtained by Mr. Davis at St. Georges, July 9.

Drosophila ampelophila Loew. The fruit-fly. Record by Prof. Verrill as very abundant on decaying fruit, associated with other related species.

AGROMYZIDAE.

Ophthalmomyia lacteipennis Loew. Two specimens were collected by Mr. Davis at St. Georges, July 21.

BORBORIDAE.

Limosina fontinalis Full. One specimen was obtained by Mr. Davis.

Limosina sp. One imperfect specimen, much smaller than the preceding. Dr. Dahl also records an undetermined species found on dead sea-weed.

DIESTRAMMENA UNICOLOR IN NORTH AMERICA.—I have lately received a female of this East Asian species which was captured in a greenhouse in Chicago, Ill., from Mr. W. J. Baumgartner. Its congener, *marmorata*, reported to have established itself in conservatories at Minneapolis, is likewise of Asiatic origin. Both species doubtless owe their introduction to commercial importations of foreign plants, among the wrappings of which they easily secrete themselves.—A. P. MORSE.