DIPTEROUS PARASITES OF SAWFLIES.1

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There are few published records of the Dipterous parasites of the sawflies.

In this paper I have endeavored to bring together all the records I could find on this subject and have added some new

breeding records which are marked with an asterisk.

The material was reared by Messrs. S. A. Rohwer and Wm. Middleton at the Eastern Field Station, Forest Insect Investigations, Falls Church, Virginia. The number following each species refers to the Hopkins U.S. note system used in the Division of Forest Insects. The date, as here used, is the rearing date or the date on which the fly emerged from the puparium.

Tachina rustica Fallén. (of Coquillett.)

*Host.—Macremphytus variana Nort.

Collected at Plummer's Island, Maryland, by Wm. Middleton. Adult emerged May 26, 1916.

Hopks. U. S. No. 13635.

Collected at Cupid's Bower, Maryland, by T. E. Snyder. Adults emerged September 1 to 19, 1916.

Hopks. U. S. No. 13649 q.

Tachina mella Walker.

*Host.—Macremphytus variana Nort.

Collected at Plummer's Island, Maryland, by Wm. Middleton. Adult emerged May 29, 1916.

Hopks. U. S. No. 13635.

Phorocera claripennis Macq.

Host.-Neodiprion lecontei Fitch.

Collected at Tomahawk Lake, Wisconsin, by S. A. Rohwer. Adults emerged October 22 and 23, 1912.

Hopks. U. S. No. 10169 and 10170.

*Host.—Neodiprion sp.

Collected at Kanawha Station, West Virginia, by Dr. A. D. Hopkins. Adults emerged August 23, 1912.

Hopks. U. S. No. 10719 b.

Phorocera sp.

*Host.—Neodiprion sp.

Collected at Cardinal, Virginia, by W. P. Smith. Adults emerged July 31, 1915.

Hopks. U. S. No. 10737 k.

Phorocera sp. (near macra.)

Host.—Neodiprion lecontei Fitch.

Collected at Washington, District of Columbia, by L. Forman.

¹Sawfly determinations by Mr. S. A. Rohwer, Custodian of Hymenoptera, U. S. Nat. Mus.

Adults emerged from August 17 to 28 and September 11, 1916.

Hopks. U. S. No. 13648 b.

Host.—Neodiprion sp.

Collected at East River, Connecticut, by Dr. C. R. Ely. Adults emerged September 24 to 26, 1914.

Hopks. U. S. No. 13675 a1.

Spathimeigenia spinigera Towns.

Host.—Neodiprion edwardsii Nort.

Collected at Redlands, California, by H. E. Burke. Adults emerged August 5, 1914.

Hopks. U. S. No. 12070 j.

Host.—Neodiprion lecontei Fitch.

Collected at Reading, Pennsylvania, by S. A. Rohwer. Adults emerged April 27, 1913.

Hopks. U. S. No. 10174.

Host.—Neodiprion lecontei Fitch.

Collected at Linglestown, Pennsylvania, by Wm. Middleton. Adults emerged May 29, 1914.

Hopks. U. S. No. 10724.

*Host.—Neodiprion affinis Rohwer.

Collected at Falls Church, Virginia, by J. N. Knull. Adults emerged May 19, 1917.

Hopks. U. S. No. 13648 g.

*Host.—Neodiprion sp.

Collected at Reading, Pennsylvania, by S. A. Rohwer. Adults emerged March 29, 1913.

Hopks. U. S. No. 10173 c.

Host.—Neodiprion sp.

Collected at Falls Church, Virginia, by S. A. Rohwer. Adults emerged August 14, 1916.

Hopks. U. S. No. 13648 d.

Host.—Neodiprion sp.

Collected at Falls Church, Virginia, by Wm. Middleton. Adults emerged August 9 to 22, 1917.

Hopks. U. S. No. 13662 b.

Admontia hylotomae Coq.

*Host.—Arge sp.

Collected at East River, Connecticut, by C. R. Ely. Adults emerged September 10 to 13, 1912.

Hopks. U. S. No. 10163 and 10163 a.

*Host.—Arge sp.

Collected at Falls Church, Virginia, by C. Heinrich. Adults emerged September 1 to 9, 1913.

Hopks. U. S. No. 11394.

Host.—Neodiprion leconti Fitch.

Collected at Falls Church, Virginia, by S. A. Rohwer. Adults emerged May 16, 1913. Hopks. U. S. No. 10175.

*Host.—Sawfly. (No record, but probably a *Diprion sp*). Collected at Snow Crack Canyon, Yosemite National Park, California, by J. M. Miller. Hopks. U. S. No. 10825.

Sturmia sp.

*Host.—Arge sp.

Collected at East River, Connecticut, by C. R. Ely. Adults emerged August 11, 1914.

Hopks. U. S. No. 12081 g.

Phorocera claripennis Macq.

*Host.—Neodiprion virginiana Rohwer.

Collected at Kanawha Station, West Virginia, by Miss L. Hopkins. Adults emerged September 4, 1913, and June 25, 1914.

Hopks. U. S. No. 10722 b.

Masicera sp. (near exilis.)

Host.—Neodiprion lecontei Fitch.

Collected at Falls Church, Virginia, by S. A. Rohwer. Adults emerged May 22, 1914. Hopks. U. S. No. 10716 b.

Frontina armigera Coq.

*Host.—Neodiprion sp.

Collected at Mt. Airy, Georgia, by T. J. McConnell. Adults emerged July 13 to 28, 1914. Hopks. U. S. No. 10737 l.

Exorista petiolata Coq.

*Host.—Neodiprion sp.

Collected at East River, Connecticut, by C. R. Ely. Adults emerged September 10 to 12, 1917.

Hopks. U. S. No. 13675 b.

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