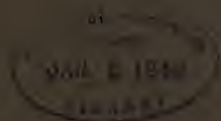


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INSECTS BRED FROM STUMPS OF *SALIX VIMINALIS* L.

By E. McC. CALLAN, B.Sc., PH.D., A.R.C.S., D.I.C., F.R.E.S.
(Entomology Department, Imperial College of Tropical Agriculture,
Trinidad, B.W.I.)

In 1936 I was anxious to have specimens of *Cryptorrhynchus lapathi* L. (willow weevil) for disease transmission work in connection with the watermark disease of the cricket bat willow. Dr. H. F. Barnes kindly provided a number of old stumps of *Salix viminalis* L. collected by him at Batford, near Harpenden,

Herts, which produced the following insects:—

- (1) *Cryptorrhynchus lapathi* L. (Col., Curculionidae). Eight specimens; emerged 28th May—7th June, 1936. Some of these weevils lived for a considerable time, one living for more than eight weeks after leaving the stumps and feeding voraciously on green willow shoots.
- (2) *Aegeria* (*Sesia*) *formicaeformis* Esp. (Lep., Aegeriidae). Fourteen specimens; emerged 10th—30th June, 1936.

Both *C. lapathi* and *A. formicaeformis* (red-tipped clearwing moth) are well-known pests of willows, damaging the rods as well as living in the stumps.

In 1937 I collected further stumps of *S. viminalis* from the same locality, which produced a number of specimens of *C. lapathi* but no specimens of *A. formicaeformis*. The following insect, however, was obtained:—

- (3) *Solenius continuus* (Lep.) (*vagus* L.) (Hym., Crabronidae). 1 ♂, 3 ♀; emerged 7th June, 1937.

This species has been frequently recorded as building its nests in rotten wood and provisioning them with various Diptera.

The following Hymenopterous parasites were also obtained from the stumps collected by Dr. Barnes:—

- (4) *Meniscus frontalis* Desv. (Hym., Ichneumonidae). 3 ♂♂; emerged 10th—20th June, 1936.
2 ♀♀; emerged 23rd June—14th July, 1936.

One male and one female have been retained in the collection at the British Museum (Natural History).

- (5) *Rhogas irregularis* Nees (Hym., Braconidae). 1 ♀; emerged 20th June, 1936.

It is extremely probable that both *M. frontalis* and *R. irregularis* were parasites of *A. formicaeformis*.

I wish to thank Dr. O. W. Richards for the determination of *Solenius continuus* and Mr. J. F. Perkins for the determination of *Meniscus frontalis* and *Rhogas irregularis*.

THREE RECORDS OF LEPIDOPTERA IN NORFOLK, 1938.

By A. H. TURNER, F.R. Met. Soc., F.Z.S.

Trochilium apiforme Clerck. turned up in a new locality at Boughton, near Stoke Ferry, in June.

Polygonia c-album Linn. Six specimens have been seen in the East Dereham district between June and October.

Colias croceus Fourc. (= *edusa* Fabr.). Four males were seen together at Swanton Morley on 4th August, and one male at Whissonsett on 10th August.