

SPIDERS AND INSECTS FOUND ASSOCIATED WITH
SWEET CORN, WITH NOTES ON THE FOOD AND
HABITS OF SOME OF THE SPECIES

III. HYMENOPTERA

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HYMENOPTERA

This order is well represented among the insects collected in the cornfield. Some were reared from hosts collected upon the corn plants. Determinations were made by Mr. H. G. Barber, Mr. R. A. Cushman, Mr. A. B. Gahan, Mr. Wm. Middleton, Mr. C. F. W. Muesebeck, Mr. G. A. Sandhouse, Mr. M. R. Smith, Mr. E. S. Thomas, and Mr. L. H. Weld.

Andrenidae

Melissodes bimaculata LeP. Five specimens taken July 29 to late August.

This species was taken as the prey of *Protacanthus milbertii* Macq., (Diptera-Asilidae), on July 29, August 14, and late August.

Apidae

Apis mellifera L. Two specimens taken July 15 and August 3.

This species visited the corn plants throughout the season while the plants were shedding pollen. Some of the strains of corn had a fragrant odor when in tassel and attracted many honeybees.

Argidae

Sterictiphora zabriskiei (W. & M.). Five specimens taken July 31 to late August.

Bembicidae

Bembix spinolae Lep. One specimen collected August 5.

Bethylidae

Dissomphalus (?) *n. sp.* One male specimen taken July 24.

N. Gen. (?) *n. sp. near Dryinopsis Brues.* One specimen taken August 5.

Pseudisobrachium sp. One specimen taken August 2.

Bombidae

Bombus americanorum Fab. Two females taken July 8 and 20.

Bombus auricomus Robt. One male taken August 13.

Bombus impatiens Cress. One specimen collected July 8.

This specimen was taken as the prey of *Protacanthus milbertii* Macq., (Diptera-Asilidae). As in the case with the honeybees, specimens of

this family were frequent visitors upon the tassels of the corn plants while they were shedding pollen. The pollen baskets of the specimens captured were filled.

Braconidae

Apanteles sp. One specimen taken July 18.

Aphidius rosae Hal. Two specimens taken July 10 and 11.

Chelonus sp. One specimen taken July 18.

Dinocampus coccinellae (Schrank). Four specimens reared from adult Coccinellids, collected from July 18 to late August.

This species was reared from *Ceratomegilla fuscilabris* Muls., *Hippodamia convergens* Guer., *Hippodamia parenthesis* Say, (Coleoptera-Coccinellidae).

Euphorina uniformis Gahan. Two specimens taken July 11 and 15.

Microbracon sp. One specimen taken August 5.

Microplitis maturus Weed. One specimen collected July 18.

Microplitis melianae Vier. One specimen collected July 18.

Microtonus (see Syrrhizus).

Opius sp. One specimen taken August 8.

Opius utahensis Gahan. One specimen taken August 5.

Syrrhizus (*Microtonus*) *agilis* (Cress.). One specimen taken July 13.

Ceraphonidae

Conostigmus sp. One specimen taken July 13.

Chalcididae

Halticoptera aenea Walk. One specimen taken July 18.

Cynipidae

Psilodera sp. One specimen taken July 11; "parasitic on Dipteron larvae breeding in cow manure."

Diapriidae

Trichopria sp. One specimen taken July 11.

Eucharidae

Pseudometagea schwarzii Ashm. One specimen collected July 10.

Eulophiidae

Diaulinus websteri Cwfd. One specimen taken July 11.

Pnigalio n. sp. One specimen taken July 11.

Formicidae

Formica sp. Five specimens taken July 16 to August 25.

Formica fusca subaenescens Emery. Two workers taken August 6.

Formica fusca subsericea Say. Many workers taken August 2 to 8.

This species was taken in attendance upon an undetermined species of Aphid, upon the tassel of a corn plant. Whenever any adult cocci-

nellids were placed in the vicinity of the aphids they were immediately attacked by one or more of the ants and knocked from the plant.

Lasius niger americana Emery. One worker taken July 13.

Lasius niger neoniger Emery. Two workers taken July 15 and 31.

Ponera coarctata pennsylvanica (Buckley). Worker taken in late August.

Prenolepis imparis (Say). Many workers taken July 22 to August 7.

On the roadway between the plots, on July 25, one worker of this species was observed dragging a larva of the European corn borer.

Pyrausta nubilalis Hbn., (Lepidoptera-Pyralidae).

Tapinoma sessile (Say). One female taken July 15.

Halictidae

Halictus illinoensis Robt. One specimen taken July 14.

Halictus parallelus Say. One specimen taken July 17.

Halictus rubicundus Christ (?). One specimen taken August 2.

Halictus versatus Robt. One specimen taken August 7.

Ichneumonidae

Amblyteles longulus (Cress.). One specimen taken July 12.

Diplazon laetatorius (Fab.). Two specimens taken July 9 and 17.

Epiurus indigator (Cress.). One specimen taken July 12.

Enicospilus purgatus (Say.) Two specimens taken July 28 and late August.

Phygodeuon sp. One specimen taken August 7.

Phygodeuon subfuscus Cress. One specimen taken August 2.

Promethes costalis (Prov.). One specimen taken July 16.

Sagaritis oxylus (Cress.). Two specimens taken July 10 and 17.

Sagaritis provancheri (D. T.). Two specimens taken July 11 and 18.

Zamicrotoridea syrphicola (Ashm.). Two specimens reared from undetermined Syrphid larvae.

The hosts of the above species was probably a species of *Baccha*, (Diptera-Syrphidae), as a larva, determined as *Baccha* sp., was taken upon the same corn leaf with the parasitized larvae. Collected July 29.

Zootrephes compressiventris (Cress.). One specimen taken July 18.

Megachilidae

Megachile latimanus Say. One specimen taken July 8.

Mutillidae

Timulla sp. Two specimens, a male and a female, taken July 17 and 25.

Specimens of this family were quite numerous in the roadways between the plots.

Scelionidae

Paridris brevipennis Fouts. One specimen taken July 18.

Telenomus podisi Ashm. Reared from the eggs on an undetermined pentatomid.

The host of this species was possibly *Euchistus variolarius* (P. de B.), (Hemiptera-Pentatomidae), as this species was extremely abundant in the cornfield.

Sphecidae

Chalybion cyaneum (Fabr.). One specimen taken July 5.

Lindeniuss errans Fox. Two specimens taken July 13 and August 7.

Notoglossus (see *Oxybelus*).

Oxybelus (*Notoglossus*) *sp.* One specimen taken July 15.

Oxybelus (*Notoglossus*) *emarginatus* Say. Two specimens taken mating on August 13.

Sphex urnarius (Dahl.). Two specimens taken July 12 and late August.

The specimen above, collected in late August, had, as its prey, a larva of an undetermined species of *Plusia*, (Lepidoptera-Noctuidae).

Tetrastichidae

Tetrastichus sp. One specimen taken August 13.
