

## GALL INSECTS TAKEN AT PRINCIPIA COLLEGE,

ELSAH, ILLINOIS  
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A study of gall insects has been made over a period of four years at Principia College, Elsay, Illinois, by C. L. Remington and the writer. This study has included the rearing of gall insects in the laboratory and observations in the field. Acknowledgment for identifications should be made to Dr. L. H. Weld for Cynipoidea; to the late Dr. E. P. Felt for Cecidomyiidae; to Dr. J. McDunough for moths; to Mr. R. A. Cushman for Ichneumonidae, and to Mr. A. B. Gahan for Chalcidoidea.

Identifications of gall insects and parasites are very difficult to make; therefore a large number of specimens has not yet been determined.

A very large proportion of the insects which have emerged from galls in the laboratory have been parasites, and in many cases the actual gall-maker remains unknown. Students of gall insects in the United States have found that the Cynipidae or gall wasps and Cecidomyiidae or gall flies include by far the greater number of gall-makers, while various aphids, and mites of the family Eriophyidae also cause many galls. A relatively small number of galls are caused by the dipterous families Trypetidae and Agromyzidae, certain sawflies and chalcid-wasps, a few species of moths, and very few Coleoptera. This has proved precisely the case in the vicinity of Elsay. It seems desirable to give an annotated list of gall insects and their parasites which have thus far been identified.

## HOMOPTERA

## Family Aphididae.

*Phylloxera caryae-fallax* Riley. Several specimens emerged from hemispherical gall on *Carya* leaflet, spring 1943.

## LEPIDOPTERA

## Family Lavernidae

*Walshia amorphella* Clemens. Reared from twig galls on False Indigo *Amorpha fruticosa*: Apr. 21 and 29, 1943. Parasitized by ichneumons: *Acrolyta empretiae* Ashm., *Pristomerus ocellatus* Cush., and *Calliephialtes grapholithae* Cress.

## Family Gelechiidae

*Gnorimoschema gallaesolidaginis* Riley. Very common. Parasitized by *Sesioplex depressus* Viereck. The elliptical stem gall on *Solidago*.

## DIPTERA

## Family Cecidomyiidae

*Lasioptera* n. sp. Reared from elliptical stem gall on *Chenopodium alba*.

*Neolasioptera ramuscula* Beuten. Host: stem gall on *Aster multiflorus*. Very abundant, parasitized by *Platygaster* sp. (probably *P. puto* Ashm.) and by *Tetrastichus* sp. and *Eupelmus* n. sp.

## Family Trypetidae

*Eurosta solidaginis* Fitch. One of the commonest gall makers in the Elsay area. Causes the large globose stem gall on *Solidago*. Overwinters as pupa. Adults emerge in April and May.

## HYMENOPTERA

## Family Cynipidae

*Kleidotoma* sp. One female taken Apr. 26, 1943.

*Aulacidea podagrae* Bassett. Ten reared from large knobby stem gall on *Lactuca*. May 31, 1943.

*Diastrophus nebulosus* Osten Sacken.

- Numbers emerged from gall on *Rubus*: March 11 and 13, 1942; Apr. 15, 1943. Parasites reared include: *Callimome sackeni* Ashm., *Ormyrus ventricosus* Ashm., and an unidentified pteromalid.
- Callirhytis futilis* Osten Sacken. Two agamic females taken Apr. 12, 1943.
- Zopheroteras hubbardi* Ashm. Female found in rotten log March 30, 1943, by Daniel Starrett. Dr. Weld knew of only four other specimens, taken in Michigan, New York, Maryland and Virginia.
- Dryocosmus palustris* Osten Sacken. Female emerged from twig gall of *Quercus* sp. May 16, 1943.
- Dryocosmus deciduus* Beutenmueller. Female taken April 17, 1943.
- Synergus walshii* Gill. One male of this guest wasp emerged from round compound gall 5 mm. in diameter on underside of leaf of *Quercus alba* found on ground in winter. Ex-pupa Apr. 11, 1943.
- Loxaulus* "sp. No. 14". Mr. Weld returned it so labeled. Female taken April 17, 1943.
- Euceroptres primus* Ashmead. One swept from grass April 29, 1943.