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List of Iowa Clover Insects and Observations on Some of Them

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LIST OF IOWA CLOVER INSECTS AND OBSERVATION ON SOME OF THEM.

The following list of Iowa clover insects comprises those species enumerated by Profs. J. A. Lintner and C. M. Weed as clover feeders which are known to occur in the State with such additions as personal observation or accepted authority will permit. All insects listed occur in the collections of the Iowa Agricultural College, and the notes in connection with any individual insect refer only to its occurrence on clover.

A few doubtful determinations were referred to Prof. Herbert Osborn, of Ames, Iowa.

ORDER LEPIDOPTERA.

FAMILY PAPILIONIDÆ.

- Callidryas eubule*, Linn., var. *senneæ*, L.
Colias caesoma, Stoll. Common.
Colias eurhytheme, Bd. Common.
Colias philodice, Godt. Plentiful.

FAMILY LYCLENIDÆ.

- Lycæna comyntas*, Godt. Common.

FAMILY HESPERIDÆ.

- Eudamus pylades*, Scudd.

FAMILY BOMBYCIDÆ.

- Spilosoma isabella*, Sm-Abb.
Hyphantria cunea, Drury.
Hyperchiria io, Fabr.

FAMILY NOCTUIDÆ.

- Agrotis fennica*, Tausch.
Agrotis annexa, Treitsch.
Agrotis saucia, Hübner.
Mamestra trifolii, Esp.
Mamestra renigera, Steph.
Mamestra picta, Harr.
Prodenia commelinæ, Guen.
Nephelodes violans, Guen.
Leucania unipuncta, Haw.

Plusia brassicæ, Riley.
Heliothis armigera, Hübn. Very common.
Drasteria erechtea, Cram. Very plentiful. Exceptionally injurious the past season.

FAMILY GEOMETRIDÆ.

Hæmatopis grataria, Fabr. Plentiful.
Aspilates dissimilaria, Hübn.

FAMILY PRALIDÆ.

Asopia farinalis, Linn.
Asopia costalis, Fabr. Reported as very destructive to stacked clover, in some of the southern counties of the State.

FAMILY TORTRICIDÆ.

Cacœcia rosacæna, Harr.
Dichelia sulphureana, Clem. Common at times.
Grapholitha interstinctana, Clem. Our most destructive moth. Have seen it damage the clover seed crop more than fifty per cent in some fields.

FAMILY TINEIDÆ.

Gelechia roseosuffusella, Clem. Common.

ORDER DIPTERA.

FAMILY CECIDOMYIDÆ

Cecidomyia leguminicola, Lint. Our most formidable clover insect. Widely distributed over the State.

ORDER COLEOPTERA.

FAMILY EROTYLIDÆ.

Languria mozardi, Latr. Not plentiful.

FAMILY CHRYSOMELIDÆ.

Colapsis brunnea, Fabr.
Diabrotica longicornis, Say. Common.
Diabrotica 12-punctata, Oliv. Common.

FAMILY TENEBRIONIDÆ.

Tenebrio molitor, Fitch.

FAMILY MELOIDÆ.

Macrobasis unicolor, Kirby. Plentiful.

FAMILY OTIORHYNCHIDÆ.

Epicærus imbricatus, Say.

FAMILY CURCULIONIDÆ.

Sitones flavescens, Marsh. Plentiful and very serious at times.

FAMILY CALANDRIDÆ.

Sphenophorus placidus, Say.

ORDER HEMIPTERA.

FAMILY CAPSIDÆ.

Pæcilocapsus lineatus, Fabr. Very plentiful.

FAMILY COCCIDÆ.

Pulvinaria innumerabilis, Rathvon.

FAMILY THIRIPIDÆ.

Thrips tritici, Fitch.

ORDER ORTHOPTERA.

FAMILY ACRIDIDÆ.

Caloptenus femur-rubrum, De G. Very plentiful.

Caloptenus bivittatus, Say. Common.

Caloptenus differentialis, Thos. Plentiful.

ORDER THYSANURA.

FAMILY PODURIDÆ.

Smynturus arvalis, Fitch. Swarms in clover in May and June. Cannot be found in late summer and autumn. Perhaps not very injurious.

ORDER ACARINA

Bryobia pratensis, Garman. Very plentiful, and doubtless injurious in the spring.

Additional list of known and doubtful feeders.

ORDER LEPIDOPTERA.

FAMILY NOCTUIDÆ.

Plusia precattonis, Guen. Adults very abundant in clover in September. Doubtless an injurious insect.

FAMILY DELTOIDES.

Hypena humuli, Harr. Adults captured in clover in September. Doubtful.

FAMILY PYRALIDÆ.

Nomophila noctuella, S-V. Adults very abundant in clover in September. Very doubtful.

ORDER COLEOPTERA.

FAMILY CHRYSOMELIDÆ.

Diachus auratus, Fabr. (Authority of Osborn.)

Disonycha triangularis, Say. Swept from clover and very probably feeds upon it.

Psylliodes punctulata, Welsh. Plentiful in May.

Pachybrachys othonus, Say. Taken sweeping.

Pachybrachys infaustus, Hald. Taken sweeping.

FAMILY MELOIDÆ.

Epicauta pennsylvanica, De G. Not often taken in clover.

FAMILY OTIORHYNCHIDÆ.

Tanymecus confertus, Gyll. One specimen taken. A probable foe.

FAMILY PHILACRIDÆ.

Alibrus consimilis, Marsh.

Alibrus nitidus, Welsh.

These two species are common on the flowers upon which they doubtless feed, though it is questionable if they do any noticeable injury.

ORDER HEMIPTERA.

FAMILY COREIDÆ.

Alydus eurinus, Say. Fairly common (authority of Osborn).

FAMILY COREIDÆ.

Coriys hyalinus, Fab. Common.

FAMILY CAPSIDÆ.

Lygus pratensis, Linn. (Recorded by Osborn.) Abundant and injurious.

Calacoris rapidus, Say. (Recorded by Osborn.) Plentiful.

FAMILY JASSIDÆ.

Agallia sanguinolenta, Prov. Abundant and serious.

Tettigonia hieroglyphica, Say. May have been an accidental occurrence.

Empoa albipicta, Forbes. The most serious Jassid at Ames last season.

Cicadula 4-lineata, Forbes. One specimen taken by sweeping.

Phlepsius irroratus, Say. Not common, perhaps not normal.

Thamnotettix melanogaster, Prov. Not plentiful; perhaps not common.

Platymetopius acutus, Say. Not uncommon.

Chlorotettix viridis, Van Duzee. One specimen taken in sweeping.

FAMILY FULGORIDÆ.

Amphiscepa bivitata, Say. One specimen taken in sweeping. Probably accidental on clover, and its normal food plant some of the fruit trees.

FAMILY MEMBRACIDÆ.

Campylenchia curvata, Fabr. (Authority of Osborn.) Larvæ collected on clover by Miss Alice M. Beach.

FAMILY APHIDÆ.

Aphis medicaginis, Koch. (?) (Rare. Authority of Osborn.)

Callipterus trifolii, Monell. (Recorded by Monell and for Iowa. Authority Osborn.)

Siphonophora sp. Extremely abundant and serious the past season.

FAMILY THIRIPIDÆ.

Phlæothrips nigra, Osborn. (Recorded by Osborn.) Very abundant in the heads.

ORDER ORTHOPTERA.

Tragocephala viridifasciata, Han. So common in spring that it seems worthy of special mention, with the three species listed by Weed.