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Some Iowa Records of Lepidoptera

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The Barnes' Museum

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SOME IOWA RECORDS OF LEPIDOPTERA

A. W. LINDSEY

My first contribution to the study of the Lepidoptera of Iowa appeared in the Proceedings of the Academy for 1914 in the form of a list of butterflies, exclusive of skippers, taken in Woodbury county (Proc. Ia. Acad. Sci. xxi, 1914, 341-346). Later I was able to complete the identification of the skippers in my possession and to examine a number of collections in various parts of the state, thus increasing my list to such an extent that in 1917 I published a second list, embracing the entire state and including all of the Diurnals (Ent. News xxviii, 1917, 347-353). While the latter was in the hands of the printer during the summer of 1917 a number of additional records were made at Sioux City, and these, together with a few corrections, are mentioned below. It seems unnecessary to repeat the records already published.

With the exception of a few notes in "Lepidoptera" in 1918 I have not yet published any records of the moths taken in Iowa, though during my last few years of residence in the state I made the most of every opportunity to add to these and listed in manuscript several hundred species. Since taking up my residence in Decatur I have found it expedient to give up my private collection, but before doing so I am preparing this list, which shall include, with the exception of the more common species and a few others, only records of specimens now in my possession. All specimens which are rare or otherwise of interest are to be placed in the Barnes collection. The nomenclature and arrangement follows Barnes and McDunnough's "Check List" with a few changes made necessary by later studies.

PAPILIONOIDEA

Nymphalidae

NYMPHALINAE

Argynnis aphrodite Fab. One specimen at Sioux City, June 21, 1917.

Phyciodes tharos form vern. *marcia* Edw. The specimens recorded in my first list as *camillus* belong here.

Libytheidae

Libythea bachmani Kirt. Specimens formerly recorded as *carinenta* belong here. *Carinenta* is not known to occur north of Texas.

Riodinidae

Calephelis borealis G. & R. There is a specimen labelled Fairfax, Ia., in the collection at Ames.

Lycaenidae

THECLINAE

Strymon acadica Edw. Taken at Sioux City in 1917.

CHRYSOPHANINAE

Heodes dione Scud. Locally common at Iowa City.

Heodes helloides Bdv. I have taken this at Okoboji, Ames and Iowa City.

LYCAENINAE

Hemiargus isola Reak. Occurs as far east at Iowa City.

Plebeius melissa Edw. Taken at Sioux City in 1917.

HESPERIOIDEA

Hesperiidae

HESPERIINAE

Thanaos brizo Bdv. & Lec. Mid River and Homestead, May.

PAMPHILINAE

Oarisma poweshiek Parker. Sioux City, 1917.

Pamphila sassacus race *dacotae* Skin. A single female taken in 1909 at Sioux City proved a puzzle for years, but it has at last been identified by comparison with a paratype female in the Barnes collection.

Euphyes bimacula G. & R. One female was taken in 1917 at Sioux City.

SPHINGOIDEA

Sphingidae

Protoparce sexta Joh. Distribution general. Common.

Protoparce quinquemaculatus Haw. Common throughout the state.

Ceratomia amyntor Hbn. Sioux City.

Ceratomia undulosa Wlk. Sioux City and Iowa City.

Sphinx chersis Hbn. Sioux City, Macedonia.

Smerinthus jamaicensis Dru. Sioux City, Iowa City.

Paonias excaecatus A. & S. Throughout the state.

Paonias myops A. & S. Iowa City.

Cressonia juglandis A. & S. Sioux City, Macedonia.

Pachysphinx modesta Harr. Throughout the state.

Hemaris thysbe Fab. Sioux City. One specimen.

Hemaris diffinis Bdv. Sioux City and Dickinson county.

Hemaris diffinis f. aest. *axillaris* G. & R. Sioux City.

Pholus satellitia form *pandorus* Hbn. All parts of the state.

Pholus achemon Dru. Sutherland.

Ampeloeca myron Cram. Sioux City and Iowa City.

Sphecodina abbotti Swains. Iowa City, Macedonia.

Deidamia inscriptum Harr. I have seen three specimens of this interesting little sphinx in Professor Wickham's collection, all taken at Iowa City.

Amphion nessus Cram. Sioux City, Iowa City.

Xylophanes tersa Linn. Decorah (A. F. Porter) Muscatine.

Celerio gallii Rott. Decorah (A. F. Porter).

Celerio lineata Fab. Common everywhere.

SATURNIOIDEA

Saturniidae

Samia cecropia Linn. Common everywhere. This species feeds on a great many different trees, and I have counted as many as fifty cocoons on a single Box Elder.

Callosamia promethea Dru. Becoming rare in eastern Iowa, where it feeds on Wild Cherry.

Tropaea luna Linn. Fairly common throughout the state.

Telea polyphemus Cram. Also common everywhere.

Automeris io Fab. Found everywhere but not in large numbers. I have taken the larva on Bur Oak at Sioux City.

Ceratocampidae

Anisota rubicunda Fab. Ames, Iowa City.

Adelocephala bicolor Harr. Homestead.

Citheronia regalis Fab. Professor Wickham tells me that he has taken the larva of this species at Iowa City, and the record should be preserved.

Basilona imperialis Dru. I am indebted to Professor Wickham for records of the occurrence of this species at Iowa City.

BOMBYCOIDEA

Syntomidae

Scepsis fulvicollis Hbn. A common diurnal moth of the prairies.

Ctenucha venosa Wlk. Though this insect is much more common in Arizona and Central America, I have a single fresh specimen taken at Sioux City, July 21, 1915.

Arctiidae

NOLINAE

Roeselia minuscula Zell. Iowa City.

LITHOSIINAE

Clemensia albata Pack. Sioux City, August.

Hypoprepia miniata Kirby. Sioux City and Dickinson county.

Hypoprepia fucosa Hbn. Decorah (A. F. Porter), Muscatine (Hoopes collection).

ARCTIINAE

Ammalo tenera Hbn. Sioux City, May and June.

Ammalo inopinatus Hy. Edw. Sioux City, one specimen only.

Halisidota tessellaris A. & S. Throughout the state.

Eubaphe laeta Guer. Sioux City, July; Iowa City, June.

Eubaphe aurantiaca Hbn. Sioux City and Dickinson county.

- Eubaphe immaculata* Reak. Sioux City, July.
Eubaphe immaculata form *trimaculosa* Reak. Sioux City, July.
Phragmatobia fuliginosa race *franconica* Sloss. Sioux City, two specimens, April and July.
Diacrisia latipennis Stretch. Booneville, June (R. Whittle).
Diacrisia virginica Fab. One of our most common moths.
Isia isabella A. & S. Common everywhere.
Hyphantria cunea Dru. Throughout the state.
Estigmene acraea Dru. With the last. Common.
Estigmene congrua Wlk. Sioux City, May, June. Specimens of this were formerly identified as *M. vestalis amelaina* Dyar.
Ecpantheria deflorata Fab. Iowa City. Prof. B. Shimek once brought me a larva of this species taken on *Liparis liliifolia*.
Apantesis intermedia Stretch. Sioux City, late August.
Apantesis rectilinea French. Sioux City, one specimen, August 26.
Apantesis nichabo Grote. Sioux City. Early September.
Apantesis arge Dru. Sioux City, Apr., July, August.
Apantesis virguncula Kirby. Sioux City, June 20, one specimen.
Apantesis vittata Wlk. Iowa City, August.
Apantesis vittata race *phalerata* Harris. Sioux City and Iowa City, May and August.
Euchaetias egle Dru. Sioux City.
Euchaetias oregonensis Stretch. Sioux City and Iowa City. Bred from *Asclepias* sp.
Utetheisa bella Linn. Iowa City, Ames, Sioux City.
Utetheisa ornatrix Linn. Lake Okoboji, July, 1916, L. L. Buchanan.
Haploa colona form *reversa* Stretch. Sioux City, June.
Haploa lecontei Bdv. Sioux City, June.
Haploa lecontei form *militaris* Harris. Sioux City, June, July. Very common in the woods.
Haploa lecontei form *vestalis* Pack. Sioux City, June, July. Less common than the preceding form.

Agaristidae

- Alypia octomaculata* Fab. Sioux City, June. The larva is fairly common at times on Woodbine, but I have never taken many adults.

Noctuidae

AGROTINAE

- Heliothis paradoxa* Grote. Professor Wickham has one male of this unmistakable species, taken at Iowa City, August 4, 1898.
Heliothis phloxiphaga G. & R. Sioux City, August 26, 1917, one male. A western species.
Heliothis obsoleta Fab. Common everywhere.
Dasyvoudaea lucens ab. *luxuriosa* Grt. Sioux City, July, 1917, two specimens.
Lygranthoecia brevis Grt. Dickinson county, August; Sioux City, September. Two specimens only.
Lygranthoecia rufimedia Grt. A good series of this species was collected from the flowers of *Lactuca* sp. at Sioux City in June, 1917.

- Lygranthoecia marginata* Haw. Sioux City and Ames.
Lygranthoecia imperspicua Stkr. Two only, Ames, August 3 and 14, 1918, at light.
Schinia hulstia Tepp. Ames, August, 1918, one only.
Schinia chrysellia Grt. Ames, Iowa City, August.
Schinia trifascia Hbn. Sioux City, August 26, September 2, 1917, two only.
Schinia oleagina Morr. Sioux City, August, September. Two specimens.
Schinia gracilentia Hbn. Sioux City, Ames, August, September.
Schinia tertia Grt. Iowa City, Ames, August, September. Fairly common.
Schinia lynx Gn. Iowa City (Wickham). In coll. Barnes from "Iowa."
Schinia gloriosa Stkr. I took a single perfect specimen of this beautiful species at Ames, August 23, 1918, at light. There is but one other in coll. Barnes, from Texas.
Euxoa niveilinea race *rabiata* Sm. Sioux City, September 7, 1915, two males.
Euxoa detersa race *personata* Morr. Iowa City, September.
Euxoa velleripennis Grote. Sioux City, September.
Euxoa messoria Harris. Sioux City, Iowa City; August, September.
Euxoa tessellata Harris. Sioux City, June, July.
Chorizagrotis auxilaris Grt. Sioux City, May and June, common.
Chorizagrotis auxilaris form *introferens* Grt. Sioux City, June.
Chorizagrotis agrestis Grt. Sioux City, May, June.
Chorizagrotis inconcinna Harv. One specimen from Sioux City, June 22, appears to be referable to this species.
Chorizagrotis albicosta Sm. Sioux City, August 10, 1917, one specimen.
Feltia gladiaria Morr. Iowa City, September.
Feltia venerabilis Wlk. One specimen without a definite locality.
Feltia venerabilis race *arida* Kkll. Sioux City, September; Iowa City, September and October.
Feltia ducens Wlk. (*subgothica* Auct.) Sioux City, Iowa City; August, September.
Feltia subgothica Haw. Sioux City, August.
Agrotis badinodis Grt. Mid River, September 23, 1917, one specimen.
Agrotis ypsilon Rott. Sioux City, Iowa City; September.
Agrotis c-nigrum Linn. Sioux City, May, June and September; Iowa City, May, June, August, October.
Agrotis bicarnea Gn. Sioux City, Iowa City, August.
Agrotis baja Fab. Dickinson county, August, R. Whittle.
Agrotis unicolor Harris. Dickinson county, August 11, 1915, one female.
Lycophotia margaritosa Haw. Sioux City, July, September; Iowa City, August, November.
Lycophotia margaritosa form *saucia* Hbn. With the species.
Lycophotia scandens Riley. I have not seen Iowa specimens of this, but it is in coll. Barnes from Missouri, South Dakota, Illinois and Minnesota.
Ufeus satyricus Grt. Sioux City, one female, without date.

HADENINAE

Scotogramma trifolii Rott. Sioux City, late April and from July 13 to September 7; Iowa City, September. Probably our most common species of *Hadeninae*.

Polia distincta Hbn. Sioux City, April 22 to May 21, 1916.

Polia meditata Grt. Dickinson county, Sioux City, Iowa City; August, September.

Polia subjuncta G. & R. Sioux City, Iowa City, Ames; July, August.

Polia adjuncta Bdv. Sioux City, August; Iowa City, May.

Polia lilacina form *illabefacta* Morr. Sioux City, Iowa City; August.

Polia doira Stkr. Sioux City, two specimens, July 17 and 27.

Polia renigera Steph. Sioux City, Iowa City, Dickinson county; June to September.

Polia lorea Gn. Sioux City, June 16 to July 11.

Polia olivacea Morr. Sioux City, July 30, 1916, one male.

Chabuata signata Wlk. Dickinson county, Iowa City; August.

Chabuata notata Stkr. Dickinson county, August 27, 1915, one male; Sioux City, August 29, 1916, one female. *Syrissa* may later have to be separated from *notata*, in which case the first specimen will probably be referable to *syrissa*.

Eriopyga utahensis Smith. Sioux City, September 7, 1915, one male. This specimen is undoubtedly *utahensis*; I have carefully re-examined the genitalia and compared them with those of *incincta*, only to arrive again at this conclusion. A second specimen taken on the same date differs somewhat in habitus and may be *incincta*, but the abdomen is lacking so this cannot be proven.

Eriopyga oviduca Gn. Sioux City, one male, without date.

Eriopyga crenulata Butl. Iowa City, August.

Eriopyga intractata Morr. Homestead, May 19, 1917, three females.

Eriopyga vecors Gn. Iowa City, August.

Nephelodes emmedonia form *violans* Gn. Iowa City, September. Common on prairie flowers in the daytime.

Morrisonia evicta Grt. Iowa City, May 18, 1917, one male.

Orthosia garmani Grt. Iowa City, April, May.

Orthosia hibisci form norm. *insciens* Wlk. Iowa City, April.

Ceramica picta Harris. Des Moines, July, R. Whittle; Iowa City, April; Sioux City, August.

Cirphis pseudargyria form *callida* Grt. Iowa City, August.

Cirphis phragmatidicola Gn. Iowa City, August; Sioux City, September.

Cirphis unipuncta. Distribution general; May, June, August, September.

Neleucania albilinea Hbn. Iowa City, May, June, August; Sioux City, August.

CUCULLIINAE

Cucullia speyeri Lint. Sioux City, May.

Cucullia asteroides Gn. Iowa City, May; Sioux City, May, August.

Cucullia convexipennis G. & R. I have seen one specimen of this in Professor Wickham's collection.

Graptolitha bethunei G. & R. Iowa City, April, September.

Graptolitha antennata Wlk. Sioux City, April 2, 1916, one female.

Conistra sidus Gn. Iowa City, November. Sioux City.

Conistra morrisoni Grt. Mid River, October 11, 1917, one male.

Parastichtis bicolorago Gn. Iowa City, one specimen. The form *ferrugineoides* Gn. occurs from late September to early November at Sioux City and Iowa City, and fairly swarms at light during the warm evenings of October.

Parastichtis agressa Sm. Sioux City, September 3, 1917, one female.

Atethmia pampina Gn. Mid River, September 23, 1917, one female.

ACRONYCTINAE

Amphipyra pyramidoides Gn. Iowa City, Sioux City; August, September.

Amphipyra glabella Morr. Sioux City, August 19, 1917, one female.

Dipterygia scabriuscula Linn. Sioux City, June to August.

Septis lignicolora Gn. Sioux City, July; Iowa City, June.

Septis arctica Bdv. Dickinson county, July.

Trachea delicata Grt. Sioux City, Dickinson county, June and July.

Trachea miselioides Gn. Sioux City, August 17, 1918, one specimen.

Agroperina lutosa Andr. Sioux City, July 11, 1917, one female.

Agroperina helva Grt. Ames, August 15, 1918, two only.

Sidemia devastator Brace. A common species.

Phlogophora iris Gn. Dickinson county, July 25, 1917, one specimen, L. L. Buchanan.

Chytonix palliatricula form *iaspis* Gn. An "Iowa" specimen in coll. Barnes.

Leuconycta diptheroides Gn. Sioux City and Iowa City; July and August.

Leuconycta diptheroides form *obliterata* Grt. Iowa City, July.

Acronycta afflicta Grt. Iowa City, in coll. Wickham.

Acronycta retardata Wlk. Sioux City, August.

Acronycta caesarea Sm. Ames, August 12, 1918, one only.

Acronycta hamamelis Gn. Iowa City, May 9, 1917. The one specimen in my collection is rather puzzling, but seems to be this species.

Acronycta quadrata Grt. August 21, 1917, Sioux City, one female.

Acronycta lobeliae Gn. Dickinson county, August, 1916, one female, R. Whittle.

Acronycta radcliffei Harv. August 11, one male, Iowa City.

Acronycta morula Grt. Sioux City, June, August.

Acronycta interrupta Gn. Iowa City, Sioux City; May to September.

Acronycta lepusculina Gn. Iowa City, May; Sioux City, April, August.

Acronycta betulae Riley. Iowa City, May 26, 1917, one male, L. L. Buchanan.

Acronycta americana Harris. Iowa City, August; Sioux City, April, May, August.

Acronycta rubricoma Gn. Iowa City, June.

Acronycta lithospila Grt. Ames, August 5, 1918, one.

Acronycta oblinta A. & S. Sioux City, May and September; Iowa City, late April; Grinnell, June (W. W. Bennett).

Simyra henrici Grt. Iowa City, May 16, 1917, three specimens.

- Hyppa xylinoides* Gn. Sioux City, one male, without date.
Catabena lineolata Wlk. Sioux City, May 16 to August 28, Common.
Prodenia ornithogalli Gn. Sioux City, Iowa City; September.
Prodenia eudiopta Gn. Ames, August.
Laphygma frugiperda A. & S. Hamburg, reared by C. N. Ainslie.
Proxenus miranda Grt. Sioux City, May.
Galgula partita Gn. Sioux City, June; Iowa City, July; Dickinson county, August.
Galgula partita form *hepara* Gn. Sioux City, July.
Crambodes talidiformis Gn. Iowa City, June to August; Sioux City, May to August. Common.
Platysenta videns Gn. Sioux City, September 26, 1915, one.
Balsa malana Fitch. Sioux City, August; Iowa City, May.
Balsa labecula Grt. Sioux City, May 14 and June 29, 1916, two specimens.
Gortyna immanis Gn. Sioux City, September 6, 1917, one male.
Papaipema furcata Sm. Sioux City, August, September.
Papaipema arctivorens Hamps. Sioux City, August 11, 1917, one male.
Papaipema pterisii Bird. Ames, August, one.
Papaipema nebris Gn. Sioux City, Iowa City; September and October.
Papaipema nebris form *nitela* Gn. Sioux City, August 20, 1916, one female.
Ogdoconta cinereola Gn. Iowa City, June, July; Sioux City, May, July, August; Dickinson county, August.
Stibadium spumosum Grt. Iowa City, July; Sioux City, August, September.
Ipimorpha pleonectusa Grt. Sioux City, July.
Stiria rugifrons Grt. Ames, August 14, 1918, one.
Plagiomimicus pityochromus Grt. Sioux City, August 14, 1917, one.
Plagiomimicus expallidus Grt. Sioux City, August 4 to 15, common.
Archana subflava Grt. Iowa City, July; Sioux City, July to September.
Euthisanotia grata Fab. Iowa City, late June; Sioux City, July 17 and 24, two specimens only.
Euthisanotia unio Hbn. Muscatine, one specimen in coll. Hoopes.

ERASTRIINAE

- Chamyris cerintha* Treitschke. Sioux City, June, July; Iowa City, May.
Lithacodia bellicula Hbn. Dickinson county, August.
Lithacodia carneola Gn. Sioux City, Iowa City; May to August.
Lithacodia apicosa Haw. Iowa City, May, July.
Lithacodia muscosula Gn. Sioux City, Iowa City; June to August.
Tarachidia tortricina Zell. Sioux City, September 4, 1917, two specimens. May be a form or race.
Tarachidia tortricina form *obsoleta* Grt. Sioux City, May 3, 1916, one.
Tarachidia erastrioides Gn. Sioux City, May, July to September.
Tarachidia candefacta Hbn. Sioux City, May, July; Dickinson county, August; Homestead, May.
Tarachidia binocula Grt. Sioux City, June 20, two specimens. These were incorrectly listed in the "Lepidopterist" as *virginalis* Grt.

SARROTHRIPINAE

Baileya ophthalmica Gn. Sioux City, April 2, 1910, one female; Iowa City, January 22, one female in coll. Wickham.

Baileya australis Grt. Sioux City, one specimen without date.

CATOCALINAE

Catocala innubens form *scintillans* G. & R. Iowa City, August 4, 1917, one male.

Catocala piatrix Grt. Iowa City, August, in coll. Wickham.

Catocala epione Dru. Iowa City, July.

Catocala habilis Grt. Nevada (Mrs. O. F. Hiser).

Catocala residua Grt. Iowa City, August, 1917 (L. L. Buchanan).

Catocala resecta Grt. Iowa City, August, in coll. Wickham.

Catocala palaeogama Gn. Clinton, a long series in coll. Barnes; Iowa City, July; Ames, July and August.

Catocala palaeogama form *annida* Fag. Iowa City, July, in coll. Wickham.

Catocala palaeogama form *phalanga* Grt. Iowa City, July 17, 1898.

Catocala insolabilis Gn. Iowa City, July 19, 1898, in coll. Wickham.

Catocala vidua A. & S. Dickinson county, September; Iowa City, October.

Catocala neogama A. & S. Sioux City, August.

Catocala neogama form *noviana* Grt. Nevada, (Mrs. O. F. Hiser).

Catocala ilia Cram. Sioux City, July.

Catocala ilia form *uxor* Gn. Sioux City, July.

Catocala cerogama Gn. Sioux City, July 3, 1911, one female.

Catocala parta Gn. Sioux City, July and August; Iowa City, September.

Catocala luciana Hy. Edw. Sioux City, no date, one specimen.

Catocala luciana form *somnus* Dodge. Dickinson county, August 18, 1916, one male (R. Whittle).

Catocala meskei Grt. Sioux City, July to September; Merville, September.

Catocala cara Gn. Sioux City, no dates; Iowa City, September.

Catocala amatrrix Hbn. Iowa City, September.

Catocala amatrrix form *selecta* Wlk. Sioux City, August, September; Ames, August.

Catocala amatrrix race *editha* Edw. Sioux City, one specimen, no date.

Catocala abbreviatella Grt. Sioux City, July.

Catocala whitneyi Dodge. Sioux City, Dickinson county, July, August.

Catocala coccinata Grt. Dickinson county, July (Arthur Abel), August (R. Whittle).

Catocala coccinata race *circe* Stkr. Nevada (Mrs. O. F. Hiser).

Catocala ultronia Hbn. Sioux City and Dickinson county, August; Nevada, July (Mrs. O. F. Hiser).

Catocala crataegi Saund. Iowa City, no date.

Catocala mira Grt. Sioux City, July.

Catocala grynea Cram. Nevada, July (Mrs. O. F. Hiser).

Catocala amica Hbn. Iowa City, common in July.

Catocala amica form *nerissa* Hy. Edw. Nevada, July (Mrs. O. F. Hiser).

Parallelia bistriaris Hbn. Sioux City, June.

Euclidia cuspidata Hbn. Sioux City, May; Homestead, common late in May.

Caenurgia erectea Cram. Common throughout the state during all of the warm months.

Celiptera frustulum Gn. Iowa City, June 10, 1917, one only.

Argyrostromis anilis Dru. Homestead, May 30, 1918, one specimen.

Zale lunata Dru. Sioux City and Dickinson county, July.

Zale galbanata Morr. Sioux City, Iowa City; April to August.

Zale lunifera Hbn. Sioux City, no dates.

PLUSIINAE

Autographa falcifera Kby. Sioux City, May; Iowa City, June.

Autographa falcifera form *simplex* Gn. Throughout the state, April to August.

Autographa brassicae Riley. The common "Cabbage Looper"; June, August.

Autographa precatationis Gn. Distribution general, April, June, October.

Plusia aerea Hbn. Iowa City, in coll. Wickham.

EREBINAE

Raphia abrupta Grt. Sioux City, May 22, July 21, August 15; a small series. This was formerly incorrectly identified as *coloradensis*.

Raphia frater Grt. Iowa City, July.

Syncta howlandi Grt. Sioux City, May 9, 1910, one female at light. This specimen is badly rubbed, but it appears to belong here.

Phoberia atomaris Hbn. Sioux City, April, May.

Panopoda rufimargo form *rubricosta* Gn. Sioux City, one female, no date.

Strenoloma lunilinea Grt. Iowa City, August, 1917 (L. L. Buchanan).

Erebus odora Dickinson county, July (R. Whittle).

Thysania zenobia Cram. Iowa City, one specimen brought into the laboratory early in October.

Calpe canadensis Beth. Dickinson county, July 20, 1917, one female (Arthur Abel).

Scoliopteryx libatrix Linn. Throughout the state.

Plusiodonta compressipalpis Gn. Sioux City, Iowa City; July.

Alabama argillacea Iowa City, September.

HYPENINAE

Rivula propinqualis Gn. Dickinson county, August.

Phytometra rhodarialis race *coccinifascia* Grt. Sioux City, July 17, 1916, one specimen.

Oxycilla malaca Grt. Iowa City, June.

Phalaenostola larentioides Grt. Iowa City, July.

Spargaloma sexpunctata Grt. Iowa City, June 12, 1917, one.

Dyspyralis puncticosta Sm. Sioux City, July, August.

Metalestra quadrisignata Wlk. Sioux City, June 23, 1917, one.

Epizeuxis americana Gn. Sioux City, Iowa City; July, September.

Epizeuxis aemula Hbn. Sioux City, July.

- Epizeuxis lubricalis* Geyer. Throughout the state, July and August.
Zanclognatha laevigata Grt. Sioux City, Iowa City; July.
Zanclognatha pedipilalis Gn. Sioux City, June, August.
Zanclognatha ochreipennis Grt. Sioux City, July.
Formisa absorptalis Wlk. Sioux City, July 16, 1916, one female.
Philometra metonalis Wlk. Dickinson county, August; Iowa City, September.
Philometra eumelusalis Wlk. Sioux City, July.
Chytolita morbidalis Gn. Iowa City, June 12, 1917, one male, one female.
Remia salusalis Wlk. Iowa City, June.
Renia flavipunctalis Geyer. Throughout the state, July to September.
Bleptina caradrinalis Gn. Iowa City, June, July.
Phalaenophana pyramusalis Wlk. Iowa City, May and June; Sioux City, July and August; Dickinson county, August.
Palthis angulalis Hbn. Sioux City, June, July.
Bomolocha bijugalis Wlk. Iowa City, June, July; Sioux City, July, September.
Bomolocha palparia Wlk. Sioux City, June, August; Iowa City, July.
Bomolocha abalienalis Wlk. Sioux City, July, August.
Bomolocha deceptalis Wlk. Sioux City, June, July.
Bomolocha madefactalis Gn. Iowa City, July.
Bomolocha sordidula Grt. Sioux City, June.
Bomolocha toreuta Grt. Sioux City, August 29, 1916, one specimen.
Plathypena scabra Fab. Northwestern Iowa, August, September.
Hypena humuli Harris. Sioux City and Dickinson County.

Notodontidae

- Ichthyura apicalis* Wlk. Iowa City, June; Sioux City, August.
Ichthyura strigosa Grt. Iowa City, May 17, 1918, one male.
Ichthyura albosigma Fitch. Iowa City, August, in coll. Wickham.
Ichthyura albosigma race *specifica* Dyar. Sioux City, November 13, 1916, one male.
Datana ministra Wlk. Sioux City, Ames, July.
Datana perspicua G. & R. Sioux City, Iowa City, July.
Datana integerrima G. & R. Sioux City, August. I have seen large walnut trees almost completely defoliated by this species.
Datana contracta Wlk. Sioux City, Dickinson county, July.
Hyperaeschra stragula Grt. Sioux City, September 6, 1917, one female.
Hyperaeschra georgica H.-S. Sioux City, July 8, 1917, one.
Pheosia rimosa Pack. Sioux City, June; Ames.
Lophodonta angulosa A. & S. Ames, August 14, 1918, one.
Nadata gibbosa A. & S. Sioux City, May and July; Dickinson county July.
Nerice bidentata Wlk. Iowa City, May; Sioux City, August.
Heterocampa manteo Doub. Sioux City, July and August.
Heterocampa bilineata Pack. Ames, August 3, 1918, one female.
Misogada unicolor Pack. Ames, July 31, one.
Ianassa lignicolor Wlk. Ames, August.
Schizura ipomoeae Doub. Sioux City, August.

Schizura ipomoeae form *cinereofrons* Pack. Sioux City, June 24, 1917, one female.

Schizura unicornis A. & S. Sioux City, August 8, 1917.

Schizura apicalis G. & R. Sioux City, August, 1917.

Cerura cinerea Wlk. Iowa City, May; Sioux City, August.

Gluphisia septentrionalis Wlk. Sioux City, April, July, very common in August.

Thyatiridae

Pseudothyatira cymatophoroides Gn. Iowa City, July 27, 1898, in coll. Wickham.

Lymantriidae

Hemerocampa leucostigma A. & S. The common tussock moth. The larva, with its white tufted back, is a familiar sight, as also is the female cocoon with the frothlike egg mass, but the wingless female, and even the male, which appear in the northwestern part of the state in September, are less conspicuous.

Olene sp. I have three specimens of an *Olene* from Sioux City, but without some knowledge of the early stages they cannot be definitely identified.

Lasiocampidae

Tolype vellea Stoll. Dickinson county, September; Iowa City, September.

Malacosoma americana Fab. Sioux City, July 8, 1917, one male.

Heteropacha rileyana Harv. Iowa City, May; Ames, August.

Epicnaptera americana Harris. Sioux City, May 9, 1910, one male.

Drepanidae

Eudeilinia herminiata Gn. Sioux City, July; Iowa City, June.

Drepana arcuata Wlk. Iowa City, May 16, 1917, one, at light.

Geometridae

HEMITHEINAE

Nemoria mimosaria Gn. Iowa City, June 11, 1917, two.

Chlorochlamys chloroleucaria Gn. Sioux City, June; Iowa City and Dickinson county, August.

ACIDALIINAE

Euacidalia ossularia Hbn. Iowa City, June, July.

Xystrota hepaticaria Gn. Sioux City, May.

Acidalia enucleata Gn. Sioux City, July.

Acidalia enucleata form *relevata* Swett. Iowa City, June, July; Sioux City, July, September.

Acidalia enucleata form *adornata* Prout. Sioux City, September.

Ptychopoda demissaria Hbn. Sioux City, July 22, 1916, three specimens.

Ptychopoda inductata Gn. Iowa City, June; Sioux City, June to August; Dickinson county, August.

Haematopis grataria Fab. Common throughout the state; May to August.

Timandra amaturaria Wlk. Sioux City, July to September. Reared from *Convolvulus sepium*.

LARENTIINAE

- Trichodesia albovittata* Gn. Sioux City, June, August.
Heterophleps refusata Wlk. Sioux City, May; Iowa City, June.
Heterophleps triguttaria H.-S. Sioux City and Iowa City, June.
Dyspteris abortivaria H.-S. Sioux City, July 22, 1916, one specimen.
Rachela bruceata Hulst. Sioux City, October; Iowa City, November.
Lygris diversilineata Hbn. Iowa City, July; Sioux City, July to September; Dickinson county, July.
Dysstroma hersiliata Gn. Clinton, in coll. Barnes.
Xanthorhoe lacustrata Gn. Sioux City, May.
Orthonoma obstipata Fab. Sioux City, July; Iowa City, June, July, November.
Euphyia centrostrigaria Woll. Eastern Iowa, May, June; Sioux City, October; Dickinson county, August.
Euphyia multiferata Wlk. Iowa City, June 12, 1917, one.
Eulype hastata race *gothicata* Gn. Iowa City, June.
Venusia comptaria Wlk. Sioux City and Mid River, May.
Hydrelia albifera Wlk. Iowa City, June.
Eudule mendica Wlk. Iowa City, June; Dickinson county, July; Sioux City, July, August.
Eupithecia miserulata Grt. Iowa City, November; Sioux City, July.

GEOMETRINAE

- Fernaldella fimetaria* G. & R. Sioux City, June 22 and July 22, 1917, two specimens. Mrs. O. F. Hiser tells me that she has taken this species at Nevada also.
Bapta vestaliata Gn. Iowa City, June; Sioux City, June, July.
Bapta glomeraria Grt. Iowa City, Mid River; May.
Melilla xanthometata Wlk. Iowa City, May to July.
Physostegania pustularia Gn. Sioux City, June to August; Dickinson county, August.
Cabera quadrifasciaria Pack. Sioux City, June and July. In coll. Barnes from Clinton.
Cabera variolaria Gn. Dickinson county, August, one male.
Philobia aemulataria Wlk. Iowa City, June to August; Sioux City, May to August.
Macaria punctolineata Pack. Iowa City, August.
Macaria denticulata Grt. Dickinson county, August.
Phasiane sublactcolata Hulst. Sioux City, August 17, 1918, one male.
Phasiane mellistrigata Grt. Plymouth county, July 28, 1912, one. Iowa City, May 17, 1917, one (L. L. Buchanan).
Phasiane meadiaria Pack. Iowa City, May 19, 1917, one (L.L. Buchanan). This specimen was formerly identified as *snoziata*, but on more careful consideration it seems not to belong to that species.
Phasiane infimata Gn. Sioux City, Iowa City; July to September.
Phasiane eremiata Gn. Iowa City, May, June.
Phasiane maculifascia Hulst. Sioux City, May, July, August; Dickinson county, August.
Encomista dislocaria Pack. Sioux City, May 8, 1910, one.

- Itame sulphurea* Pack. Sioux City, July; Dickinson county, August.
Itame evagaria Hulst. Sioux City, June.
Itame subcessaria Wlk. Sioux City, July.
Itame exauspicata Wlk. Iowa City, June, July.
Itame pustularia Hbn. Iowa City, May to July.
Itame virginialis Hulst. Sioux City, August 1, 1916, one.
Catopyrrha coloraria Hbn. Sioux City, June.
Paraphia subatomaria Wood. Sioux City, May to August.
Lytrosis unitaria H.-S. Sioux City, July 7, 1917, one male.
Cleora pampinaria Gn. Sioux City, May, June, August.
Melanolophia signataria Wlk. Homestead, Iowa City, May.
Ectropis crepuscularia Schiff. Sioux City, April, July; Mid River, May; Iowa City, August.
Amphidasis cognataria Gn. Iowa City, August; Sioux City, May, July, August.
Phigalia titea Cram. Sioux City, Iowa City; April.
Palaeacrita vernata Peck. Sioux City, Iowa City; April.
Ellopia endropiaria G. & R. Homestead, June 14, 1918, one male.
Ellopia turbataria B. & McD. Iowa City, September.
Campaea perlata Gn. Iowa City, June.
Enigonobapta nivosaria Gn. Sioux City, Iowa City; June and July.
Ennomos subsignarius Hbn. Sioux City, July.
Ennomos magnarius Gn. Sioux City, August, September; Iowa City and Mid River, October.
Xanthotype vagaria Swett. Iowa City, June, August; Sioux City, May, August.
Plagodis keutzingaria Pack. Sioux City, three specimens, May 12, 20 and 22, 1916.
Plagodis fervidaria H.-S. Iowa City, May 17, 1917, one.
Plagodis phlogosaria Gn. Sioux City, August 11, 1917, one.
Plagodis arrogaria Hulst. Iowa City, July 17, 1917, one.
Hyperitis amicararia H.-S. Sioux City, July 17, 1917, one.
Hyperitis amicararia form *alienaria* H.-S. Iowa City, May, June; Sioux City, June.
Nematocampa limbata Haw. Sioux City, July, August, September. Reared from Box Elder.
Gonodontis hypochararia H.-S. Iowa City, June.
Gonodontis duaria Gn. Homestead, Iowa City, May.
Euchlaena irraria B. & McD. Iowa City, July.
Euchlaena serrata Dru. Sioux City, July 16, 1917, one male.
Euchlaena obtusaria Hbn. Sioux City, August, September. Reared from Sweet Clover.
Euchlaena astylusaria Dru. Sioux City, August 12, 1918, one female.
Euchlaena tigrinaria Gn. Iowa City, August; Sioux City, June.
Metanema inatomaria Gn. Sioux City, June 29, 1915, one.
Pero honestarius Hbn. Throughout the state. May, June, August.
Apicia confusaria Hbn. Sioux City, July.
Tetracis crocallata form vern. *aspilatata* Gn. Sioux City, June 28, 1917, one female.
Sabulodes lorata Grt. Sioux City, Iowa City, June.

Sabulodes transversata Dru. Sioux City, July; Iowa City, September, October.

Abbottana clemataria A. & S. Sioux City, April 8, 1910, one female.

TINEOIDEA

Zygaenidae

Harrisina americana Guer. Sioux City, no date.

Thyridae

Thyris lugubris Bdv. Sioux City, July.

Pyralidae

PYRAUSTINAE

Glaphyria glaphyralis Gn. Iowa City, July.

Glaphyria inzisalis Gn. Sioux City, July.

Glaphyria psychialis Hulst. Iowa City, July.

Egesta eripalis Grt. Sioux City, July.

Lipocosma sicalis Wlk. Sioux City, July.

Desmia funeralis Hbn. Sioux City, June to August.

Blepharomastix magualis Gn. Iowa City, July.

Blepharomastix ranalis Gn. Iowa City, Sioux City; July.

Blepharomastix stenialis Gn. Iowa City, June and July.

Pantographa limata G. & R. Sioux City, August.

Sylepta obscuralis Led. Iowa City.

Evergestia straminealis Hbn. Sioux City and Dickinson county, August.

Crocidophora tubercularis Led. Sioux City, July.

Loxostege dasconalis Wlk. Iowa City, June, one only.

Loxostege coloradensis G. & R. Sioux City, June.

Loxostege chortalis Grt. Sioux City, May; Iowa City, June.

Loxostege oblitalis Wlk. Iowa City, June; Sioux City, July, August.

Loxostege similalis Gn. Generally common.

Loxostege sticticalis Linn. Sioux City, May, June; Dickinson county, August; Iowa City.

Loxostege commixtalis Wlk. Sioux City, May.

Phlyctaenia ferrugalis Hbn. Dickinson county, August.

Phlyctaenia tertialis Gn. Iowa City, June.

Pyrausta fissalis Grt. Sioux City, June; Iowa City, July.

Pyrausta aeglealis Wlk. Iowa City, July.

Pyrausta flavidalis Gn. Sioux City, July.

Pyrausta penitalis Grt. Sioux City, August.

Pyrausta ainsliei Hein. Sioux City, August.

Pyrausta futilalis Led. Sioux City, August.

Pyrausta fumoferalis Hulst. Sioux City, August.

Pyrausta onythesalis Wlk. Sioux City, June.

Pyrausta generosa G. & R. Homestead, May; Sioux City, June.

Pyrausta signatalis Wlk. Iowa City, June; Sioux City, July.

Pyrausta funebris Strom. Homestead, June.

NYMPHULINAE

Nymphula badiusalis Wlk. Dickinson county, August.

Nymphula icciusalis Wlk. Dickinson county, August.

PYRALINAE

- Pyralis farinalis* Linn. General, June and July.
Hypsopygia costalis Fab. Sioux City, July, September.
Herculia olinalis Gn. Homestead, June; Sioux City, August.

CHRYSAUGINAE

- Condylolomia participialis* Grt. Iowa City, July.

SCHOENOBIIINAE

- Schoenobius mellinellus* Clem. The species and both forms at Sioux City, July.
Schoenobius mellinellus form *dispersellus* Rob.
Schoenobius mellinellus form *albicostellus* Fern.

CRAMBINAE

- Raphiptera minimella* Rob. Ames, no date.
Crambus leachellus Zinck. Sioux City, August.
Crambus praefectellus Zinck. Dickinson county, August, determined by G. G. Ainslie.
Crambus alboclavellus Zell. Iowa City, July.
Crambus agitatellus Clem. Iowa City, June.
Crambus laqueatellus Clem. Iowa City, June; Sioux City, June, July.
Crambus hortuellus Hbn. Dickinson county, August, determined by G. G. Ainslie.
Crambus hortuellus form *topiarius* Zell. Iowa City, July.
Crambus albellus Clem. Iowa City, June, July.
Crambus turbatellus Wlk. Iowa City, July.
Crambus vulgivagellus Clem. Sioux City, common in August and September.
Crambus ruricolellus Zell. Dickinson county, August, determined by G. G. Ainslie.
Crambus mutabilis Clem. Ames, August, one only.
Crambus hemiochrellus Zell. Sioux City, July, one only.
Crambus trisectus Wlk. Sioux City, August, September, common.
Crambus caliginosellus Clem. Iowa City, July.
Crambus luteolellus Clem. Sioux City, June.
Thaumatopsis pexellus Zell. Sioux City, September.
Thaumatopsis repandus Grt. Sioux City, July.
Argyria nivalis Dru. Sioux City, July.
Argyria argeniana Martyn. Sioux City, June.
 One other species closely allied to *auratella*, has been taken at Sioux City in July. This is to be described by Dr. W. T. M. Forbes, and cotypes are in coll. Barnes. I have but one other Iowa specimen.
Platytes vobisne Dyar. One specimen without date from Sioux City.
Eoreuma densellus Zell. Ames, August.
Chilo comptulatalis Hulst. Ames, August.
Chilo forbesellus Fern. Sioux City.

EPIPASCHIINAE

- Epipaschia zelleri* Grt. Sioux City, July.
Tetralopha baptisiella Fern. Dickinson county, August.

PHYCITINAE

A number of Phycitinæ are on hand, but the group is in such a state that no attempt has been made to identify them.

Pterophoridae

Oxyptilus periscelidactylus Fitch. Sioux City, June.

Oxyptilus tenuidactylus Fitch. Sioux City, June.

Platyptilia carduidactyla Riley. Iowa City, July.

Oedematophorus palcaceus Zell. Sioux City, July.

Oedematophorus lacteodactylus Cham. Homestead, May.

Oedematophorus cretidactylus Fitch. Sioux City, July.

Oedematophorus cupatorii Fern. Sioux City, July.

Oedematophorus inquinatus Zell. Sioux City, August, common at light.

Oedematophorus monodactylus Linn. Sioux City, August, September.

Orneodidae

Orneodes hexadactyla Linn. Sioux City, April.

During the summer of 1918 I made an effort to obtain as many micro-lepidoptera as possible, with the result that I have on hand a considerable number of specimens. Some of these have been identified by Mr. Busck, of the National Museum, but so many remain to be worked over that I am omitting them entirely at present. The rearing of micros in the prairie areas, particularly of the western part of the state, should bring to light a great many interesting things.

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