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Dennis Profant
Central Michigan University

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AN ANNOTATED CHECKLIST OF THE LEPIDOPTERA OF THE BEAVER ISLAND ARCHIPELAGO, LAKE MICHIGAN.

Dennis Profant

ABSTRACT

A survey of Lepidoptera was conducted in 1987 and 1988 on Beaver Island, Lake Michigan. When combined with a 1930 survey of the Beaver Island Archipelago, 757 species from 41 families have now been recorded from these islands.

Only one study has been published on the Lepidoptera of Beaver Island and the surrounding islands of Garden, High, Hog, Whiskey, Squaw, Trout, Gull, and Hat (Moore 1930). The present study has produced a more complete inventory of lepidopteran species on Beaver Island. Collecting was done in a variety of habitats using several different light sources. Emphasis was placed on the Microlepidoptera which were largely omitted in the original work by Moore (1930).

Beaver Island is the largest of a group of nine named islands located in the extreme northeastern portion of Lake Michigan, (Fig. 1). Situated 51 km northwest of Charlevoix, Michigan, the island is 20 km long by 11 km wide and consists of several hundred permanent residents who reside primarily in the town of St. James. The island has a maritime climate and frosts can occur well into May and again in September. While the summer air is usually hot during the day, 26°C, it often is very cool at night. 10°C is not unusual in June, July, and August, (Jacque LaFreniere, pers. comm.).

The northern part of the island is underlain with limestone formations which form outcrops in various places. The interior is gently rolling, corresponding to the original glacial drift. Behind the shoreline are a series of sand dunes and terraces, the largest of which occurs on the west side of the island. The highest point in this dune complex is approximately 61 m high (Darlington 1940). It is probable that the Beaver archipelago has not been connected to the mainland since the last glacial epoch. The fauna must have crossed the water after the retreat of the Wisconsin ice sheet some 15,000 years ago. The water would be only a slight barrier for winged insects, especially Lepidoptera. The species found on the island have a marked northern affinity and may have been carried from the Upper Peninsula by the frequent strong northwest winds (Moore 1930).

Beaver Island occurs in the hemlock-white pine-northern hardwoods forest region (Braun 1950). The beaches and dunes consist of vegetation characteristic of this latitude. Much of the island perimeter consists of coniferous forests (mixed fir, spruce, cedar, hemlock, and pine). A number of inland lakes contain sphagnum bogs or bog forests. Years ago the island residents put much of the land into cultivation and many of these farmlands have reverted to old fields and second growth forests of paper birch (Betula papyrifera) and a bracken fern (Pteridium aquilinum) understory.

1Biology Department, Central Michigan University, Mt. Pleasant, MI. 48859. Current address; Natural Resources Department, Hocking College, Nelsonville, OH. 45764.
MATERIALS AND METHODS

Lepidoptera were collected between July and September 1987, and periodically between May and August 1988. A few records were obtained from a small teaching collection at the Central Michigan University (CMU) Biological Station. Most species in table 1 without collecting dates came from this collection. White sheets illuminated by a 200 watt incandescent light bulb and/or several filtered black lights (BLB) were used for night collecting. Buildings with mercury vapor lights were also utilized. Sugaring for moths with a beer-molasses bait proved unproductive. Moths were collected 4-5 times a week and at all hours of the night.

Habitats sampled on the island included hemlock woods, beech-maple forest, sphagnum bog, cedar woods, northern hardwoods, coniferous forest, lake edges, marshes, and open fields. The primary collection sites responsible for the largest percentage of species collected were the CMU Biological Station and campground.
The beach and dunes at the station were typified by *Prunus pennsylvanica*, *Populus balsamifera*, *Salix cordata*, *Potentilla fruticosa*, *Juniper spp.*, *Arctostaphylos uva-ursi*, *Campanula rotundifolia*, *Lithospermum caroliniense*, and *Zigadenus glaucus*. Behind the dunes was an area dominated by *Pinus resinosa*, and *P. strobus*, with an understory of bracken fern, *Smilacina stellata*, *Linnaea borealis*, and *Silene vulgaris*. The campground was a mixed hardwood-coniferous community. Common plants included paper birch, *Tsuga canadensis*, *Thuja occidentalis*, *Populus tremuloides*, *Abies balsamea*, *Picea glauca*, *Ostrya virginiana*, *Betula alleghaniensis*, *Cornus canadensis*, *Clintonia borealis*, *Maianthemum canadense*, and *Polygala paucifolia*.


**RESULTS**

A total of 757 lepidopteran species from 41 families has now been recorded from the Beaver Island archipelago. 701 of these species were from Beaver Island; 517 species were collected in this study and 184 additional species were reported by Moore (1930). Approximately 35 species of microlepidoptera remain unidentified. Table 1 lists all identified species collected from the Beaver Island archipelago. Species not collected on Beaver Island are listed with the island on which they were originally recorded by Moore (1930).

Table 1. An annotated checklist of the Lepidoptera of the Beaver Island archipelago, Lake Michigan. M, recorded by Moore (1930); P, recorded by Profant.

<table>
<thead>
<tr>
<th>Family</th>
<th>Species</th>
<th>Month</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEPIALIDAE</td>
<td><em>Monopis dorsistrigella</em> (Clem.)</td>
<td>P 29 July</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Sthenopis quadriguttatus</em> (Grt.)</td>
<td>P July</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Hepialus gracilis</em> Grt.</td>
<td>P 12 July</td>
<td></td>
</tr>
<tr>
<td>OPOSTEGIDAE</td>
<td><em>Opostega quadristrigella</em> Cham.</td>
<td>P 22-29 June</td>
<td></td>
</tr>
<tr>
<td>GRACILLARIIDAE</td>
<td><em>Caloptilia glutinella</em> ? (Ely)</td>
<td>P July</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Caloptilia packardella</em> ? (Cham.)</td>
<td>P 4 July</td>
<td></td>
</tr>
<tr>
<td>TINEIDAE</td>
<td><em>Parornix sp.</em></td>
<td>P July-Aug.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Phyllonorycter sp.</em></td>
<td>P 1-9 July</td>
<td></td>
</tr>
<tr>
<td>OECOPHORIDAE</td>
<td><em>Agonopterix atrodorsella</em> (Clem.)</td>
<td>P 27 May</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Agonopterix pulvipsella</em> (Clem.)</td>
<td>P 26 May</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Agonopterix flavicomella</em> (Engel)</td>
<td>P 9 July</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Semioscopis packardella</em> (Clem.)</td>
<td>P May</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Depressaria pastinacella</em> (Dup.)</td>
<td>M June-Aug.</td>
<td>Garden, High</td>
</tr>
</tbody>
</table>
Ethmia monticola fuscopedella (Wlsm.) P 22
June
Callima argentincinctella Clem. P July

BLASTOBASIDAE
Dryopeira mursfeldtiella (Cham.) P 3 Aug.

COLEOPHORIDAE
Coleophora fagicorticella ? Cham. P 4 July
Coleophora spissicomis (Haw.) P 4 July

GELECHIIDAE
Dichomeris ligulella Hbn. P 29 July
Dichomeris serrafivittellalisa complex P 7 July
Anacampsis niveopulvella (Cham.) P 6 Aug.
Trichotaphe flavocostella (Clem.) P 21 July

ALUCITIDAE
Alucita hexadactyla L. P 7 Aug.

PLUTELLIDAE
Plutella porrectella ? (L.) P 26 May
Plutella xylostella (L.) P 3 Aug.
Ypsolopha dentiferella (Wlsm.) P 2 Aug.

YPONOMEUTIDAE
Atteva punctella (Cram.) P 21 July
Swammerdamia sp. P 9 July

ARGYRESTHIIDAE
Argyresthia annetella Bsk. P July
Argyresthia prob. austerella Zell. P 1 July
Argyresthia oreasella Clem. P 29 July
Argyresthia sp. P 1 July

SESIIIDAE
Pennisetia marginata (Harr.) M Aug.
Albuna pyramidalis (Wilk.) M June-July High
Synanthedon pictipes (Grote & Robinson) M 5 July High
Synanthedon acerni (Clem.) MP July-Aug.
Synanthedon proxima (Hy. Edw.) P July

CHOREUTIDAE
Prochoreutis inflatella (Clem.) P July-Aug.
Choreutis pariana (Cl.) P 29 July

COSSIDAE
Acosstus centerensis (Lint.) M July-Aug.
Prionoxystus robiniae (Peck) P 1 July
Prionoxystus macmurtrei (Guer.) P 29 June

TORTRICIDAE
Atergia approximana (Heinr.) P July-Aug.
Apotomis capreana (Hbn.) M Sept.
Apotomis funerea (Meyr.) P June-Aug.
Apotomis apaticiana (McD.) P 18 July
Apotomis deceptana (Kft.) P July-Aug.
Pseudosciaphila duplex (Wlsm.) P 27 June
Olethreutes puncticana (Wlsm.) P 9 July
Olethreutes quadridifus (Zell.) P July
Olethreutes clavata (Walker) P 9 July
Olethreutes nigrana (Heinr.) P 29 July
Olethreutes merrickana ? (Kft.) P 18 July
Olethreutes cespitana (Hbn.) MP July-Aug.
Olethreutes bipartitana (Clem.) P 4 July
Hedyia ochroleucana (Frolch) P 7 July
Rhyacionia buoliana (Denis & Schiffermuller) P July
Spilonota ocellana (Denis & Schiffermuller) P 29 July
Phaneta formosana (Clem.) P 7 July
Phaneta ochrocephala (Wlsm.) P July-Aug.
Phaneta ochroterninana (Kft.) P Aug.
Phaneta patmata (Clem.) P 2 Aug.
Phaneta tarandana ? (Mosch.) P July-Aug.
Phaneta prob. olivacea (Bly.) P 4 July
Eucosma toculillanana Heinr. P 7 July
Eucosma palabundana Heinr. P June-July
Eucosma dorsignatanana (Clem.) MP Aug.-Sept.
Eucosma derelecinana Heinr. P 21 July
Eucosma consobrinana Heinr. P 29 July
Epiblema oitosana (Clem.) P 7 July
Notocelia culminana (Wlsm.) P 3 Aug.
Gypsonoma haimbachiana (Kft.) P 29 July
Gypsonoma substitutis Heinr. P June-July
Gypsonoma aduncata Heinr. P 1-4 July
Proteoisera mossfittiana Fern. P 29 July
Epinitia solandriana (L.) P July-Aug.
Epinitia horoniensis Brown P 22 July
Epinitia criddleana ? (Kft.) P 18 July
Epinitia transmissana (Walker) P 29 July
Ancylis metamela (Wilk.) P 7 July
Ancylis semiovana (Zell.) P 1 July
Ancylis burgessiana (Zell.) MP May-June
Dichrorampha bittana (Bsk.) P 7 July
Pammene felicitana Heinr. P 7 July
Grapholita pruniwara (Walsh) P 29 July
Cydia flexilqua (Heinr.) P July
Cydia pomonella (L.) P 29 July

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Croesia albicomana (Clem.) MP Aug.
Acleris comandrina (Fern.) M 2 June High
Pandemis lamprosana (Rob.) P 4 July
Pandemis limitata (Rob.) P July
Pandemis canadana Kft. P 18-29 July
Argyrotaenia velutinana (Wlk.) P July
Argyrotaenia quadripunctana (Fern.) P 12 July
Choristoneura rosaceana (Harr.) M 28 July
Choristoneura fumiferana (Clem.) P 27 June
Choristoneura pinus Free. P 21 July
Archips argyrospila (Wlk.) MP June-Aug.
Archips mortuana (Kft.) P 4 July
Archips fervidana (Clem.) P July-Aug.
Archips striana (Fern.) P 27 June-I July
Archips dissitana (Grt.) MP July-Aug.
Archips packardiana (Fern.) P July-Aug.
Clepsis pemcana (Fitch) MP July
C/epsis meialeueana (Wlk.) MP June
Ptycholoma virescana (Clem.) P 4 July
Sparganothis suljureana (Clem.) P 21 July
Sparganothis Iycopodiana (Kft.) M July-Aug.
Sparganothis uni/asciana (Clem.) P 21 July
Sparganothis reticulatana (Clem.) MP Aug.
Sparganothis directana ? (Wlk.) P 4 July
Sparganothis pettitana (Rob.) MP July

Hysterosia hospes Wlsm. P 18 July
Hysterosia romonana Kft. P July

Erynnis icelus (Scudder & Burgess) M May-June
Carterocephalus palaemon (Pallas) M 18 June
Hog
Anryoxyxa numitor (F.) M 13 July Hog
Thymelicus lineola (Ochs.) P June-Aug.
Hesperia comita lauternina (Lyman) MP July-Aug.
Hesperia leonardus Harr. P
Hesperia sasacsa Harr. M 18 June
Polites coras (Cram.) P
Polites themistoelas (Latr.) M June-July High, Garden
Polites mystic (Edw.) P
Poanes hobomok (Harr.) M June
Euphyes rubicola (Bdv.) MP July
Amblyscirtes vialis (Edw.) M June Garden, Hog

PAPILIONIDAE
Papilio polyxenes F. P
Papilio glaucus L. MP June

PIERIDAE
Artogeia napi (L.) M May-June Garden, Hog
Artogeia rapae (L.) MP May-Sept.
Colias philodice Godt. MP May-Oct.
Colias interior Scudder P 2 July

LYCAENIDAE
Lycaena phlaeas (L.) MP May-Aug.
Hylolycaena hylus (Cram.) MP 28 June High
Epidemia epixanthine (Bdv. & Leconte) P June-July
Epidemia dorcas (Kby.) P July-Aug.
Epidemia helioides (Bdv.) MP June-Aug.
Satyrium acacidicum (Edw.) P 20 July
Satyrium calanus falacer (Godart) M June-July
Satyrium liparops strigosum (Harr.) MP 27 July
Incisalia augustus (Kby.) MP May
Strymon melinus Hbn. M 29 July Squaw
Everes comynatas (Godt.) P 4 Aug.
Celastrina ladon (Cram.) MP May-Aug.
Plebejus saepiolus (Bdv.) M June-July Garden, Hog, High

NYMPHALIDAE
Polygonia interrogationis (F.) P June
Polygonia ca/ma (Harr.) MP July
Polygonia faunus (Edw.) M 20 July Squaw
Polygonia progne (Cram.) M July-Sept.
Nymphalis va-album (Denis & Schiffermuller) MP Aug.
Nymphalis antiopa (L.) MP June-Oct.
Aglais milberi (Godt.) MP June-July
Vanessa virginia/ea (Drury) MP June-July
Vanessa cardui (L.) MP May-Sept.
Vanessa atalanta (L.) MP June-Aug.
Junonia coenia (Hbn.) MP Aug.-Sept.
Speyeria cybele (F.) MP July
Speyeria aphrodite alice/iis (Edw.) MP July
Speyeria atlantis (Edw.) MP July-Aug.
Clossiana selene myrina (Cram.) MP June-Aug.
Clossiana bellona (F.) P 6 Aug.
Phyciodes mephus (F.) MP June-Aug.
Charidryas nyctic (Doubleday) M June High
Basilarchia arthemis (Drury) & astyanax (F.) MP June-July
Basilarchia archippus (Cram.) MP Aug.

SATYRIDAE

Enodia anthedon A.H. Clark P 7 July

Satyrodes eryndice (Johansson) MP July-Aug.

Megisto cymela (Cram.) P 5 July

Coenonympha inornata Edw. MP July

Cercyonis pegala nephele (Kby.) MP July-Aug.

DANAIDAE

Danaus plexippus (L.) MP Aug.

LIMACODIDAE

Tortricidia testacea Pack. MP June-July

Tortricidia prob. jlexuosa (Grt.) P 4 July

Lithacodes jasciola (HAl.) MP July-Aug.

PYRALIDAE

Scoparia basalis Wlk. P 29 July

Eudonia strigalis (Dyar) P 22 July

Nymphula ekthilipsis (Grt.) M 18 July High

Munroessa icthiasialis (Wlk.) MP July-Aug.

Parapoxynx maculalis (Clem.) MP Aug.

Parapoxynx boditialis (Wlk.) M Aug.-Sept.

Parapoxynx allionelalis Wlk. P 29 July

Dicymolomia julianalis (Wlk.) P 29 July

Evergestis pollidata (Hufn.) M June-Sept.

Perispasta caeculalis Zell. P July

Phyciades coronara (Hufn.) M July-Aug.

Neaelugonia extricaalis (Gn.) M 10 Sept.

Anania junebris (Strom) M June-July

Sitochroa chordalis (Grt.) M June

Loxostegoe sticticalis (L.) MP May-June

Pyrausta nicalis (Grt.) M 25 June High

Pyrausta signatalis (Wlk.) M 2 Aug. High

Pyrausta bicoloralis (Gn.) P July

Pyrausta acrionalis (Wlk.) P 21 July

Pyrausta foedalis (Led.) M 30 July Garden

Udea rubigalis (Gn.) MP June-Oct.

Diathrausta reconditalis (Wlk.) M 3 Aug.


Desmia funeralis (Hbn.) P

Anageshna primordialis (Dyar) P June-July

Palpita magniferalis (Wlk.) P May-June

Herpetogramma pertexalis (Led.) M Aug.-Sept. High

Herpetogramma thestealis (Wlk.) MP July-Aug.

Donacaula melinella (Clem.) P July 9


Crambus hamellus (Thunb.) M 26 Aug.

Crambus bidens Zell. P 21 July

Crambus perlellus (Scop.) MP July-Aug.

Crambus whitmerellus Ktts M 21 Aug.

Crambus looks like praejectellus (Zinck.) P Aug.

Crambus leachellus (Zinck.) M Aug.-Sept.

Crambus albellus Clem. P 22 July

Crambus agataellus Clem. MP June-July

Crambus girandellus Clem. P 9 July

Chrysoteucha topiaaria (Zell.) MP July-Aug.

Agriphila ruricoella (Zell.) P 8 Aug.

Agriphila vulgivagella (Clem.) M Aug.-Sept.

Catoptria latiradiella (Zell.) MP July-Aug.

Microcrambus biguttellus (Fos.) P 22 July

Microcrambus elegans (Clem.) P 22 July

Loxocrambus awemensis McD. P 29 July


Urola nivalis (Drury) P 3 Aug.

Vaxi auratella (Clem.) MP July

Pyralis farinalis L. MP 14 June-4 Aug.

Hypsopygia costalis (F.) P 29 July

Herculia olinalis (Gn.) M July-Aug.

Herculia intermedialis (Wlk.) P 4 July

Tetralopa sp. P 1-18 July

Tetralopa sp. P 7 Aug.

Etelia zinckenella ?. (Tr.) P 7 July-2 Aug.

Nephoterix basilaris Zell. P 9 July

Dioryctia looks like abietivorella (Grt.) P 27 June

Eutologia ochrifrontella (Zell.) P 4 July

Moodana ostrinella (Clem.) P 29 July-3 Aug.

Persia approximella (Wlk.) MP July

PTEROPHORIDAE

Geina tenuidactyla (Fitch) MP July

Cnaemidophorus rhododactylus (Denis & Schiffermuller) P 22 July

Platyptilia pallidactyla (Haw.) M June

Platyptilia carduidactyla (Riley) P July

Oidaematophorus eliotii (Fern.) P 2 Aug.

Oidaematophorus kelticottii (Fish) M June High

Oidaematophorus inconditus ? (Wlsm.) M June High

Emmelina monodactyla (L.) M June-July High

THYATIRIDAE

Habrosyne scripta (Gosse) MP June-July

Habrosyne gloriosa (Gn.) M Hog from pupae

Pseudothyatira cymatophoroides (Gn.) M June-July

Euthyatira pudens (Gn.) M 7 June High
DREPANIDAE

Drepana arcuata Wik. MP July-Aug.
Drepana bilineata (Pack.) MP July
Oreta rosea (Wik.) P 4 July

GEOMETRIDAE

Prototima virginalis (Hulst) P 2 Aug.
Itame pustularia (Gn.) MP June-Sept.
Itame ribaria (Fitch) M 6 Aug.
Itame argillacea (Pack.) M July-Aug.
Itame brunnea (Thunb.) M July
Itame subcessaria (Wik.) P 21 July
Itame bitactata (Wik.) M July-Aug.
Itame /oricaria (Evers.) P 4 July
Semiothisa aemularia (Wlk.) M June-July
Semiothisa minoraria (Pack.) MP June-Aug.
Semiothisa graniaria (Gn.) M June-Aug.
Semiothisa eremiaria (Gn.) M 18 July High
Semiothisa oryaria (Wik.) M July
Semiothisa continuaria (Wik.) P May-Aug.
Semiothisa neptaria trifasciaria (Pack.) M June-July Squaw, Hog
Ematurga amitaria (On.) P 2 July
Anacamptodes velcroaria (Hulst) P 27 May
Anacramphoides vellivola (Hulst) P 27 May
Iríopsis larvaria (Gn.) MP July-Aug.
Anavitrinelia pampinaria (Gn.) M June-July High
Ectropis crepuscularia (Denis & Schiffermuller) M May-July
Protoaboaria porcellaria indicataria (Wik.) M July-Sept.
Melanolophia signataria (Wik.) MP May-June
Euclidla discospilata (Wik.) P May-July
Biston betularia cognataria (Gn.) MP July-Aug.
Hypagryta unipunctata (Haw.) M July-Aug.
Hypagryta piniaria (Pack.) P June-July
Erannis illaria (Harr.) M 6 Oct.
Lomographa semicollararia (Wik.) M May-June
Lomographa vestitalia (Gn.) M June-July High
Caber erythemaria Gm. MP June-Aug.
Caber variaria Gm. M June-July
Euchlaena serrata (Drury) MP July
Euchlaena obtusaria (Hbn.) P 4 July
Euchlaena effecta (Wik.) M July-Aug.
Euchlaena johnsonaria (Fitch) MP July
Euchlaena amoena astylaria (Wik.) MP July
Euchlaena marginaria (Minot) M 4 June
Euchlaena irrorata (Barnes & McDunnough) MP July
Euchlaena effecta (Wik.) P 27 June
Xanthotype sospetta (Drury) M July
Pero honestaria (Wlk.) MP June-July
Pero morisonaria (Hy. Edw.) P 4 July
Campaea perlata (Gn.) P June-July
Ennomos magnaria Gn. MP Aug.-Sept.
Ennomos subsignaria (Hbn.) M July-Aug.
Petrophora subaquearia (Wik.) MP May-July
Homochlopes frissillaria (Gn.) MP June-July
Selenia kentaria (Grote & Robinson) P May 27
Metanema inomaria Gn. MP June-Aug.
Metanema determinata Wik. M Aug. 6
Metarrhanthis fouraria (Gn.) MP June
Metarrhanthis hypocharia (Herrich-Schaffer) M June Garden, High
Cephis arm-cararia (H. & S.) MP June-July
Anagoga occidentaria (Wik.) M June
Probole amicaria (Herrich-Schaffer) MP May-July
Plagodis serinaria Herrich-Schaffer P 28 May
Plagodis phlogosaria approximaria Dyar MP May-July
Caripeta divisata Wik. MP June-Aug.
Caripeta piniaria (Pack.) P 27 June
Caripeta angustioraria Wik. MP June-Aug.
Besma querci ovaria (Gn.) MP July
Lambdina fisellaria (Gn.) MP Aug.-Oct.
Cingilia catenaria (Drury) M Sept.
Nepytia canosaria (Wik.) P Aug.
Nepytia semitarsaria (Wik.) M Aug.-Sept.
Sicya macularia (Harr.) MP Aug.
Eusarca confusa Hbn. MP July
Tetracis crocallia Gn. MP July
Tetracis cachexiata Gn. M June-July
Eutrapela clemitaria (J.E. Smith) MP May-June
Prochoerodes transversa (Drury) MP Aug.-Oct.
Nematomacpa limbata (Haw.) M July-Aug.
Nemoria mimosaria (Gn.) MP May-July
Synclora aeraria (F.) M July
Chlorochlamys chlorocharia (Gn.) M June-Aug.
Hethemia pistasciaria (Gn.) MP May-June
Mesoea incerta (Wik.) M 25 May Hog
Idea demissaria (Hbn.) P 9 July
Pleuroptycha insulsaria (Gn.) M 4 Sept.
Cyclophora pendulinaria (Gn.) M June-Aug.
Scopula limboundaria (Haw.) MP July-Aug.
Scopula junctaria (Wik.) M July 12 High
Dysstroma truncata (Hufn.) MP Aug.-Sept.
Dysstroma hirtaria (Gn.) M July
Eulithis diversilineata (Hbn.) M July-Sept.
Eulithis testata (L.) MP Aug.-Sept.
Eulithis mollucata (Wik.) P 6 Aug.
Eulithis explanata (Wik.) MP Aug.
Ecliptopera silaceata albolineata (Pack.) M June-Sept.
Thera contractata (Pack.) MP July-Sept.
Hydriomena californiata Pack. M June-July
Hydriomena coerulea Fabr. M June-July Hog
Triphosa haestata affirma (Wlk.) MP May-Aug.
Coryphista meadii (Pack.) MP 6 Aug.
Hydria undulata (L.) MP June-July
Rheumaptera hastata (L.) M June-July Gull,
Hog, Garden, High
Mesoleuca rufulilata (Gn.) MP June-July
Spargania magnoliata Gn. MP June-Sept.
Perizoma basaliata (Wlk.) M Aug.
Anticlea vasiliata (Gn.) P 24 May
Anticlea multiferata (Wlk.) M 10 July
Xanthorhoe labradorensis (Pack.) M June-Aug.
Xanthorhoe iduata (Gn.) M July
Xanthorhoe munitata convallaria (Gn.) M 16 July
Xanthorhoe lacustra (Gn.) M 7 July
Hydrelia lucata (Gn.) M 7 July
Hydrelia inornata (Hulst) P 4-7 July
Trichodesia albivittata (Gn.) MP May-July
Eubaphe mendica (Wlk.) MP June-Aug.
Eupithecia palpata Pack. M 1 July
Eupithecia subfuscata (Haw.) M June-July
Eupithecia satyrata fumata Tayl. M 18 July
High
Eupithecia coagulata Gn. MP May & Aug.
Eupithecia antecaria Wlk. M 7 July
Eupithecia ravostaliata Pack. P 28 May
Cladara limari (Wlk.) P May
Lobophora nivigera Wlk. P July
Lobophora montanata Pack. M June-July

EPIPLEMIDAE

Callithea amoena Pack. MP June-July

LASIIOCAMPIDAE

ToIype laricis (Fitch) MP Aug.-Sept.
Phylloodesma americana (Harr.) MP June
Malacosoma disstria Hbn. MP July
Malacosoma americanum (F.) MP July-Aug.

SATURNIIDAE

Dryocampa rubicunda (F.) MP June-July
Autofera io (F.) P
Antheraea polyphemus (Cram.) MP June-July
Actias luna (L.) MP June-July
Hyalophora cecropia (L.) P

SPHINGIDAE

Maniola quinquemaculata (Haw.) P
Ceratomyia amyntor (Geyer) MP July
Ceratomyia undulosa (Wlk.) MP June-Aug.
Sphinx chersis (Hbn.) MP July-Aug.
Sphinx kalmiae J.E. Smith MP Aug.
Sphinx gordius (Cram.) P 27 June
Sphinx drupiferarum J.E. Smith P 6 July
Laphroa bombycoidea Wlk MP June-July
Smerinthus jalamaetis (Drury) MP June
Smerinthus cerisyi Kby. MP June-July
Paonias exaccaetus (J.E. Smith) MP June-July
Paonias myops (J.E. Smith) P 1 July
Loathee juglandis (J.E. Smith) MP June-July
Pachysphinx modesta (Harr.) MP July-Aug.
Hemaris thysbe (F.) M 24 July High
Hemaris diffinis (Bdv.) M 2 June High
Hyles gallii (Rottemburg) P

NOTODONTIDAE

Clostera alboisigma Fitch MP June-Aug.
Clostera striosga (Grt.) M July
Clostera apicalis (Wlk.) M June-July
Datana ministra (Drury) MP July
Nadata gibbosa (J.E. Smith) MP July
Peridea basirieri (Wlk.) M July
Peridea angulosa (J.E. Smith) MP July-Aug.
Peridea ferruginea (Pack.) MP June-Aug.
Pheosia rimos P. MP July-Aug.
Odantasia elegans (Skr.) M July
Notodon scitipennis Wlk. M June-July
Notodon simplaria Graef P 1-6 Aug.
Nerice bidentata Wlk. P 27 June
Gluphisia septentrionalis Wlk. MP June-Aug.
Gluphisia avimacula Hudson P May
Furcula cinerea (Wlk.) MP June-Aug.
Furcula scolopendrina (Bdv.) M 12 Aug.
Furcula modesta (Hudson) P May-Aug.
Furcula occidentalis (Lint.) P 4 July
Symmerista albifrons (J.E. Smith) MP June-July
Dasylophya thyattoides (Wlk.) MP June-Aug.
Heterocampa umbrata Wlk. MP June-July
Heterocampa guttivata (Wlk.) P 29 June
Heterocampa biundata M June-July
Lochmaeus manteo Doubleday M 21 July Hog
Schizura ipomoeae Doubleday M 5 Aug.
Schizura unicornis (J.E.Smith) MP June-Aug.
Schizura apicalis (Grote & Robinson) M 16 July High
Schizura concinna (J.E.Smith) M reared
Oligocentria semirubescens (Wlk.) P 18 July
Oligocentria lignicolor (Wlk.) MP July
Hyparpax aurora (J.E.Smith) P June

ARCTIIDAE

Eilema bicolor (Grt.) MP Aug.
Crambidia casta (Pack.) MP Aug.-Sept.
Lycomorpha pholus (Drury) P July
Hypoprepia miniata (Kby.) MP July-Aug.
Hypoprepia fucosa Hbn. MP July-Aug.
Clemensia albata Pack. MP Aug.
Utetheisa bella (L.) M July-Aug.
Hoploa confusa (Lyman) MP July-Aug.
Holometrina laeta (Guer.-Men.) MP July
Pyrrharctia aurora (J.E.Smith) M 10 July
Spilosoma virgincica (F.) MP June-Aug.
Arctica caja americana Harr. MP Aug.
Apantes thryllra (Drury) MP Aug.
Apantes parthenice (W.Kirby) MP Aug.-Sept.
Halysidota tessellaris (J.E.Smith) MP July-Aug.
Lophocampa maculata Harr. MP June-July
Cycnia tenera Hbn. MP July
Euchares egle (Drury) M High
Ctenucha virginica (Esp.) MP June-July
Cisseps fulvicollis (Hbn.) MP July

LYMANTRIIDAE

Dasychira plagia (Wlk.) P 2-6 Aug.
Orgya antiqua (L.) M 5 Sept.
Orgya leucostigma (J.E.Smith) MP Aug.-Sept.

NOCTUIDAE

Idia americalis (Gn.) MP July-Sept.
Idia rotundalis (Wlk.) M July-Sept.
Idia scrobalis (Grt.) M 28 July
Idia lubricalis (Gey.) M July-Aug.
Phalaenophora pyramusalis (Wlk.) M June-July
Zanclognatha terealis (Wlk.) M July-Aug.
Zanclognatha longispira (Grt.) M 3 Aug.
Garden
Zanclognatha cruralis (Gn.) M 20 June High

Zanclognatha ochreipennis (Grt.) MP July-Aug.
Chytolita morbida (Gn.) M July High
Chytolita petrelis Grt. M June-July
Hormis petralis Wlk. P July
Hormis acerifera Grt. P 29 July
Phalaenostola laerotio Grt. P 29 July
Bieplina caradrina (Gn.) M July
Renia fiespunctalis (Gey.) MP July-Sept.
Pathis angulalis (Hbn.) M June-July Hog, High
Rivula propinqualis Gn. MP July-Aug.
Hypenodes caducus (Dyar) P 2 Aug.
Hypenodes fallax (Sm.) P July-Aug.
Dysyphila ilicetaria Warr. P 18 July
Bomolocha baltealis (Gn.) MP July-Aug.
Bomolocha palpiaria (Wlk.) MP July
Bomolocha deceptalis (Wlk.) M 22 June High
Platyschema scalbra (F.) MP July-Aug.
Spargaloma sexpunctata Grt. M 14 July
Pangrapta decoralis Hbn. M July
Alabama argillacea (Hbn.) M Sept.
Scoliopteryx libatrix (L.) MP Aug.
Synedoida adumbrata (Behr) M June-July
Zale lunata (Drury) MP Sept.
Zale minera (Gn.) P 27 May
Zale duplicata largera (Sm.) P May
Parallelia bistriaris Hbn. M June
Euclidia cupispera (Hbn.) M 27 May Hog
Caenurgina cassiuscula (Haw.) M Aug.
Caenurgina erechtea (Cram.) MP July-Aug.
Catocala antinympha (Hbn.) M 21 July Garden
Catocala ilia (Cram.) MP Aug.
Catocala cerogama Gn. P July
Catocala relicta Wlk. MP Aug.-Sept.
Catocala unijuga Wlk. MP July-Sept.
Catocala briseis Edw. MP July-Aug.
Catocala concumbens Wlk. M 27 Sept. High
Catocala ultronia (Hbn.) MP Aug.-Sept.
Catocala gynaia (Cram.) P 6 Aug.
Diachrysia balluca Gey. MP July
Autographa precationis (Gn.) MP May-Sept.
Autographa bimaculata (Steph.) MP July-Aug.
Autographa mappa (Grote & Robinson) P 4 July

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Lithacodia albida (Gn.) MP June-July
Lithacodia synochitis (Grote & Robinson) M 5 Aug.
Lithacodia carnea (Gn.) MP July-Aug.
Capis curvata Grt. P 4 July
Leucocrypta diphtheroides (Gn.) MP June-July
Leucocrypta lepidula (Grt.) P 4 July
Panthea acronyxoides (Wlk.) MP July-Aug.
Panthea furcilla (Pack.) MP-July-Aug.
Colocasia propinquinea (Grt.) M 16 July
Charandra deridens (Gn.) MP July
Raphia frater Grt. MP July-Aug.
Acronicta americana (Harr.) MP July
Acronicta daucylina (Grt.) MP 7 July
Acronicta lepusculina Gn. MP July-Aug.
Acronicta grisea Wlk. MP 4 July
Acronicta quadrata Grt. M 30 June
Acronicta fragilis (Gn.) MP July
Acronicta affilata Grt. MP July-Aug.
Acronicta impleta Wlk. M 1 July
Acronicta notitvaga (Grt.) M 19 June
Acronicta impressa Wlk. MP Aug.
Acronicta longa Gn. MP Aug.-Sept.
Acronicta olnitina (J.E.Smith) M July-Aug.
Harrisimemna trisignata (Wlk.) M 28 July
Apamea verbascoidea (Gn.) M 6 Aug.
Apamea lignicolora (Gn.) M July-Aug.
Apamea vultuosa (Gn.) M 14 July
Apamea amputatrix (Fitch) MP June-Aug.
Apamea indocilis (Wlk.) M July
Agroperina lateritia (Hufn.) M June-July
Agroperina dubitans (Wlk.) M 29 Aug. High
Crymodes devastator (Brace) MP June-Aug.
Luperina passer (Gn.) MP July
Oligia modica (Gn.) MP July-Aug.
Oligia tonsa subjuncta (Sm.) P 12 July
Oligia bridghami (Grote & Robinson) P July-Aug.
Oligia minuscula (Morr.) M 2 Oct.
Oligia maottata (Gn.) M Aug.-Sept. High
Oligia fraxtilinea (Grt.) P July-Aug.
Xylomola chagnoni Barnes & McDunnough P 22 July
Hyphoecena variana (Morr.) M 2 Aug.
Macronaucta onusta Grt. M 10 Sept.
Helotropha reniformis (Grt.) M Aug.-Oct.
Amphipoea velata (Wlk.) M 20 Aug.
Amphipoea americana (Speyer) MP July-Aug.
Papaipecta leucostigma (Harr.) M 12 Oct.
Papaipecta pterissii Bird P 27 Aug.
Papaipecta appassionata (Harv.) P from larva
Papaipecta aweme (Lyman) M 13 Aug.
Hydreaecia micacea (Esp.) P 21 July
Euplexia benesimilis McD. M July
Phlogophora irisi Gn. MP June-July
Phlogophora periculosa Gn. M Aug.
Enarget decolor (Wlk.) MP Aug.-Sept.
Enarget infumata (Grt.) P 16 Aug.-9 Sept.
Ipimorpha pleonecuta Grt. MP July-Sept.
Chytonix pailiaticricula (Gn.) MP July-Aug.
Hyppa xylinoides (Gn.) P 5 Aug.
Nedra ramosula (Gn.) MP May-Aug.
Callopiestria melissima (Gn.) P July
Callopiestria cordata (Ljungk) MP July-Aug.
Amphipyrus pyramidaloides Gn. MP Aug.-Sept.
Proxenus miranda (Grt.) M June-Sept.
Platyperigea multifera (Wlk.) M Aug.
Balsa malana (Fitch) MP 27 June
Spodoptera frugiperda (J.E.Smith) M Sept.
Elaphria versicolor (Grt.) M 14 July
Elaphria festivoides (Gn.) M June-July
Galigua partita Gn. P 28 May
Ogdocota cinerea (Gn.) M June-July
Amolita fessa Grt. P 9 July
Lithophane petulca Grt. P May
Psctraglae carnosus (Grt.) M 2 Oct.
Eucirroedia pampina (Gn.) M Aug.-Oct.
Snitra bicolor (Gn.) M 2 Oct.
Anathaxia puta (Grote & Robinson) P 27 Aug.
Xanthia togata (Esph.) M Sept.
Xylotype capax (Grt.) M 14 Sept. High
Brachylomia algens (Grt.) M 6 Sept. High
Feralia jocosus (Gn.) P 27 May
Feralia comstocki (Grt.) P May
Homohadena badistriga (Grt.) P July
Onconemis riparia Morr. M June-July High
Cucullia intermedia Speyer P 7 July
Discestra trifoli (Hufn.) P 27 Aug.
Polia nimbose (Gn.) P 12 July
Polia imbrifera (Gn.) M July-Aug.
Polia purpurissa (Grt.) M Aug.
Polia detracia (Wlk.) M July-Aug.
Polia obscura (Sm.) M 8 July
Polia latex (Gn.) M June-July
Melanchra adjuncta (Gn.) M High
Melanchra assimilis (Morr.) M June-July
Lacanobia atlantica (Grt.) M 9 July
Lacanobia grandis (Gn.) M 18 June
Lacanobia lutra (Gn.) M June-July
Lacanobia legitima (Grt.) P 7 July
Lacanobia liealina (Harv.) P 7 July
Papesta quadrata (Sm.) P
Aneplia capsularis (Gn.) M 1 July
Anarta cordigera (Thunb.) P 28 May
Lacinipolia meditata (Grt.) M Aug.
Lacinipolia anguina (Grt.) MP May-July
Lacinipolia vicina (Grt.) MP July-Aug.
Lacinipolia renigera (Steph.) MP June-Aug.
Lacinipolia lorea (Gn.) M June-July

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<table>
<thead>
<tr>
<th>Species Name</th>
<th>Collector</th>
<th>Month/Range</th>
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<tbody>
<tr>
<td>Lacinipolia olivacea (Morr.)</td>
<td>MP</td>
<td>Aug.-Sept.</td>
</tr>
<tr>
<td>Faronta diffusa (Wik.)</td>
<td>M</td>
<td>June-Aug.</td>
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<tr>
<td>Aleia oxygala luteopallens (Sm.)</td>
<td>M</td>
<td>July-Aug.</td>
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<td>Pseudaletia unipuncta (Haw.)</td>
<td>MP</td>
<td>May-Aug.</td>
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<tr>
<td>Leucania multilinea (Wik.)</td>
<td>M</td>
<td>July-Aug.</td>
</tr>
<tr>
<td>Leucania commoides (Gn.)</td>
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<td>July</td>
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<tr>
<td>Leucania insueta (Gn.)</td>
<td>M</td>
<td>June</td>
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<tr>
<td>Leucania pseudargyria (Gu.)</td>
<td>MP</td>
<td>Jul</td>
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<tr>
<td>Orthosia revieta (Morr.)</td>
<td>P</td>
<td>May</td>
</tr>
<tr>
<td>Crocigrapha normani (Grt.)</td>
<td>P</td>
<td>27 May</td>
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<tr>
<td>Homorthodes furfurata (Grt.)</td>
<td>M</td>
<td>July</td>
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<td>Protorthodes incincta (Ort.)</td>
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<td>28 July</td>
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<tr>
<td>Protorthodes oviduca (Gn.)</td>
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<td>June-Sept.</td>
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<tr>
<td>Ulolonche modesta (Morr.)</td>
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<td>July</td>
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<tr>
<td>Orthodes crenulata (Butler)</td>
<td>M</td>
<td>3 Aug.</td>
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<td>Orthodes cynica (Gn.)</td>
<td>M</td>
<td>June-July</td>
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<tr>
<td>Tricholita signata (Wik.)</td>
<td>M</td>
<td>July-Aug.</td>
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<tr>
<td>Agrotis vetusta (Wik.)</td>
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<td>Aug.-Sept.</td>
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<tr>
<td>Agrotis mollis (Wik.)</td>
<td>P</td>
<td>22 July</td>
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<tr>
<td>Agrotis gliadiaria (Morr.)</td>
<td>M</td>
<td>9 Sept.</td>
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<tr>
<td>Agrotis venerabilis (Wik.)</td>
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<td>15 June</td>
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<td>Agrotis ipsilon (Hufn.)</td>
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<td>Aug.-Sept.</td>
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<td>Feltia jaculifera (Gn.)</td>
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<tr>
<td>Feltia subgothica (Haw.)</td>
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<td>Aug.</td>
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<tr>
<td>Feltia herilis (Grt.)</td>
<td>M</td>
<td>July-Aug.</td>
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<tr>
<td>Feltia geniculata (Grote &amp; Robinson)</td>
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<td>Aug.-Sept.</td>
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<tr>
<td>Euxoa diversgens (Wik.)</td>
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<td>June-Aug.</td>
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<tr>
<td>Euxoa sinelines (Hdwk.)</td>
<td>P</td>
<td>22 July</td>
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<tr>
<td>Euxoa messoria (Harr.)</td>
<td>M</td>
<td>Aug.</td>
</tr>
<tr>
<td>Euxoa scandens (Riley)</td>
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<td>July-Aug.</td>
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<tr>
<td>Euxoa pleuritica (Grt.)</td>
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<td>22 July</td>
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<tr>
<td>Euxoa mimallonis (Grt.)</td>
<td>M</td>
<td>Aug.</td>
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<tr>
<td>Euxoa ochrogaster (Gn.)</td>
<td>M</td>
<td>6 Aug.</td>
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<tr>
<td>Euxoa tessellata (Harr.)</td>
<td>M</td>
<td>9 July-3 Sept.</td>
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<tr>
<td>Euxoa catenula (Grt.)</td>
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<td>Aug.-Sept.</td>
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<tr>
<td>Euxoa perexcellens (Grt.)</td>
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<td>Aug.</td>
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<td>Euxoa detersa (Wik.)</td>
<td>M</td>
<td>Aug.-Sept.</td>
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<tr>
<td>Euxoa redimicula (Morr.)</td>
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<td>July</td>
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<tr>
<td>Ochropiepra plecta (L.)</td>
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<td>July-Aug.</td>
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<tr>
<td>Peridroma saucia (Hbn.)</td>
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<td>June-Sept.</td>
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<tr>
<td>Diarsia rubifera (Grt.)</td>
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<td>July-Sept.</td>
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<td>Diarsia jucunda (Wik.)</td>
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<td>July-Aug.</td>
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<tr>
<td>Actelisia fennica (Tauscher)</td>
<td>M</td>
<td>June-Sept.</td>
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<tr>
<td>Spaeolitis clandestina (Harr.)</td>
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<td>June-Aug.</td>
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<tr>
<td>Graphiphora haruspica (Grt.)</td>
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<td>July-Aug.</td>
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<td>Eurois occulta (L.)</td>
<td>M</td>
<td>July-Aug.</td>
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<tr>
<td>Xestia dolosa Franc.</td>
<td>M</td>
<td>June-Aug.</td>
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<tr>
<td>Xestia normaniana (Grt.)</td>
<td>M</td>
<td>Aug.</td>
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<tr>
<td>Xestia smithii (Snell.)</td>
<td>M</td>
<td>July-Aug.</td>
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<tr>
<td>Xestia bicannea (Gn.)</td>
<td>M</td>
<td>July-Aug.</td>
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<tr>
<td>Xestia tenuiscut (? (Morr.)</td>
<td>M</td>
<td>23 July</td>
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<tr>
<td>Anomogyna elegantissima (Gn.)</td>
<td>M</td>
<td>July-Aug.</td>
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<tr>
<td>Anomogyna badicollis (Grt.)</td>
<td>P</td>
<td>Aug.</td>
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<tr>
<td>Anomogyna duleciicoa (Morr.)</td>
<td>M</td>
<td>8 Sept.</td>
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<tr>
<td>Paradiarsia littoralis (Pack.)</td>
<td>M</td>
<td>June-July</td>
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<tr>
<td>Anaplectoides prasina (Denis &amp; Schiffermuller)</td>
<td>M</td>
<td>Aug.-Sept.</td>
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<tr>
<td>Anaplectoides pressus (Grt.)</td>
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<td>July-Aug.</td>
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<tr>
<td>Protolampra bruneicollis (Grt.)</td>
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<td>Eueretagrotis peratenta (Grt.)</td>
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<td>June-Aug.</td>
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<td>Heptagrotis phyllophora (Grt.)</td>
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<td>July-Aug.</td>
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<tr>
<td>Cryptocala acadensi (Bethune)</td>
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<td>July-Aug.</td>
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<tr>
<td>Abagrotis alternata (Grt.)</td>
<td>M</td>
<td>6 Sept.</td>
</tr>
<tr>
<td>Rhynchagrotis cupida (Grt.)</td>
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<td>3 Aug.</td>
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<tr>
<td>Rhynchagrotis anchocelloides (Gn.)</td>
<td>M</td>
<td>Aug.-Sept.</td>
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<tr>
<td>Pyrrha umbra (Hufn.)</td>
<td>M</td>
<td>June-Aug.</td>
</tr>
<tr>
<td>Heliothis zeas (Buddie)</td>
<td>M</td>
<td>Sept.</td>
</tr>
<tr>
<td>Schinia rivulosa (Gn.)</td>
<td>M</td>
<td>24 Aug.</td>
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<tr>
<td>Schinia floridana (Gn.)</td>
<td>M</td>
<td>10 Aug.</td>
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</tbody>
</table>

**DISCUSSION**

Moore (1930) listed *Gluphisia lintneri* (Notodontidae) as occurring on Beaver Island. Originally *G. lintneri* and *G. avimacula* were synonymous and therefore mixed in Moore's data. The two are now valid species and *G. avimacula* is extremely abundant on Beaver Island. Although *G. lintneri* may occur, none were collected, and upon examination of Moore's specimens at the University of Michigan collection, all were *G. avimacula* and *G. avimacula* is extremely abundant on Beaver Island. Although *G. lintneri* may occur, none were collected, and upon examination of Moore's specimens at the University of Michigan collection, all were *G. avimacula*. *Enarga decolor* (Noctuidae) and *E. infumata*, were also originally thought to be one species. Although Moore (1930) listed only *E. decolor*, it now includes data on both species. Another noctuid, listed by Moore (1930) as *Euplexia lucipara* is now referred to as *E. benesimilis* (Hodges et al. 1983). *E. lucipara* is a palaeartic species and does not occur in North America. No endangered or threatened species were found based on the list of endangered lepidopteran species of Michigan (DNR 1988). One “species of special concern” (DNR 1988), *Papaipema aweme* (one specimen), (Noctuidae), was recorded by Moore (1930). This species is known only from a few specimens collected in various parts of North America (M. C. Nielsen, pers. comm.). Little is known about its life history, but the
species may be associated with wetlands or shoreline environments. Repeated efforts to recollect it along lake edges were unsuccessful.

Further investigations should turn up additional species new to Beaver Island, especially moths at ultraviolet/mercury vapor lights. Future collecting should be concentrated in the southern portions of the island and in a variety of habitats. With the exception of Iron Ore Bay, collecting has been virtually nonexistent in areas surrounding Green's Bay, French Bay, Miller's Marsh, Lake Geneserath, and on the satellite islands.

ACKNOWLEDGMENTS

I thank J. Gillingham, Central Michigan University (CMU) Biological Station, for his cooperation in collecting at the station, and R. G. Bland, CMU, for reviewing the manuscript and being advisor on this project. R. L. Fischer, Michigan State University and M. F. O'Brien, University of Michigan Museum of Zoology, allowed access to the university insect collections. M. C. Nielsen, Lansing, provided valuable assistance in identification.

LITERATURE CITED

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