

CARPENTER PARK NATURE PRESERVE

SANGAMON COUNTY, ILLINOIS

AN INSECT SURVEY

**FOR
ILLINOIS DEPARTMENT OF NATURAL RESOURCES**

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A report of research by

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Carpenter Park Nature Preserve, Sangamon County, Illinois
Insect Survey 2001 - 2002

Introduction

Approximately 2000 species of Lepidoptera (butterflies and moths) occur in Illinois. These species are important to the ecosystem because of their association with the flora of this area. The larval stages are primary plant consumers, and the adult forms are pollinators. In addition, they are a common food resource for many species of birds, mammals and other arthropods. Many species, especially those restricted by host plant requirements, serve as indirect indicators of habitat quality (LaGesse et al. 1996, 2000). With the current interest in land management and maintaining plant and animal diversity, During the growing season of 2001 through 2002, 10 diurnal and 8 nocturnal surveys for Lepidoptera were performed over a one-year period by the senior author.

Carpenter Park is a 322-acre tract with high quality upland and floodplain forest communities, intermittent streams, small seeps, and sandstone outcrops. These features represent over half of the remaining forest that originally occurred along the major streams of the Springfield Section of the Grand Prairie Natural Division (IDNR 1995). Tree coring was done by the senior author to document the old-growth status of Carpenter Park. Many White Oaks were between 200 and 430 years old; many Black Oaks were between 137 to 229 years old; Bur Oaks were between 145 to 299 years old (LaGesse et. al., 2001). With the documentation of this old-growth site an insect survey was conducted by the senior author during the summer of 2001 and 2002.

Materials and Methods

To date, only management of the Black Oak -White Oak -Shagbark Hickory Woodlands has occurred at Carpenter Park. These management activities would include prescribed fire, mechanical timber thinning and herbiciding of mesic trees. Most of the sampling that occurred for this study was in those upland woodlands areas, but a few sample sites were placed in the floodplain forest. Insects were sampled by various methods. Sampling included capture and release of species easily identified and preservation of voucher representatives to confirm identification of species. All voucher specimens will be deposited with the author's collection or the Illinois State Museum (ISM), Springfield, Illinois.

The following methods were used:

1. Random walks with aerial nets were conducted that passed through the natural communities present at the site. These occurred between 0700h to 1400h.
2. Three portable 15-watt ultra-violet bucket trap lights were suspended from trees in communities sampled. These were powered by car batteries and were operated

from 1400h to 0700h on the next day. Specimens were selectively collected from the traps and preserved to be identified later.

3. A 15 watt ultra-violet light powered by a 12-volt battery was used to illuminate a white sheet suspended on a parked truck or rope suspended between two trees. The sheet was illuminated from 1400h to 0200h. Selected specimens were collected and preserved for identification.
4. A 125-watt mercury vapor light, powered by a portable gas generator, was used to illuminate upon white sheets suspended between trees. This was operated from 1400h to 0250h. Selected specimens were collected and preserved for identification.

Results

E.D. Cashatt, Illinois State Museum, Zoology Department, identified all Odonata species and he also provided a print out of the Illinois Lepidoptera Database for Sangamon County, Illinois. This along with butterfly data from past Xerces Butterfly counts became the first layer of historic accounts from the preserve. James Wiker confirmed or identified all Lepidoptera species in this report.

Using the Illinois Lepidoptera Database and the results of this survey, 47 Butterfly species representing 9 families were found historically at Carpenter Park. Of these, 35 were confirmed and 7 new species were observed. One hundred forty-eight species of Moths representing 15 Families were documented and 142 new species were confirmed. In the Order of Odonata no historic records occurred but 9 species representing 5 families were documented. In the Order of Coleoptera 8 species were confirmed representing 6 families.

The senior author conducted 8 diurnal and 7 nocturnal surveys during this 13-month study. Currently there are other orders being identified by other experts in the field. As the senior author learns more about some of those vouchers, this report and Illinois Department of Natural Resources will be updated.

No rare or endangered species of insects were encountered during this study.

Carpenter Park Nature Preserve Insect Survey Species List

Scientific Name	Common Name	Date Observed
<i>Order Lepidoptera</i>		
Family Hesperidae Skippers		
<i>Erynnis juvenalis</i> (F.)	Juvenal's Dusky Wing	14 May 2002 *9 July 1995
<i>Atrytone logan</i> (Edw.)	Delaware Skipper	14 May 2002
<i>Thorybes bathyllus</i> (Sm J.E.)	Southern Cloudywing	*22 June 1939
<i>Polites coras</i> (Cram.)	Peck's Skipper	*4 Aug. 1941
<i>Poanes hobomok</i> (Harr.)	Hobomok Skipper	19 May 2002
<i>Polites themistocles</i> (Latreille)	Tawny-Edges Skipper	12 June 2002 14 June 2002
<i>Euphyes ruricola</i> (Harr.)	Dunn Skipper	14 June 2002
<i>Epargyreus clarus</i> (Cram.)	Silver-Spotted Skipper	14 June 2002
Family Papilionidae The Swallowtails		
<i>Eurytides marcellus</i> (Cram.)	Zebra Swallowtail	14 May 2002 *1 Aug. 1978
<i>Papilio glaucus</i> (L.)	Tiger Swallowtail	23 June 2002 *9 July 1995 *1 Aug. 1978 *4 Aug. 1941
<i>Papilio polyxenes</i> Stoll	Black Swallowtail	14 June 2002 *9 July 1995 *4 Aug. 1977 *19 Aug. 1978
<i>Papilio troilus</i> (L.)	Spicebush Swallowtail	14 May 2002 12, 14 June 2002 *9 July 1995 *6 July 1939 *4 Aug 1941

Faimly *Pieridae* Sulfurs, Whites

<i>Colias eurytheme</i> Bdv.	Alfalfa Butterfly	12, 14 June 2002 *9 July 1995 *18 Sept. 1939 *14 July 1939
<i>Colias philodice</i> Godart	Clouded Sulfur	12, 14 June 2002 *9 July 1995 *14 July 1939
<i>Eurema lisa</i> (Bdv.&LeConte)	Little Sulfur	*9 July 1995 *6 June 1939 *4 Aug. 1941
<i>Artoglia rapae</i> (L.)	European Cabbage White	12, 14 June 2002 14 May 2002 *9 July 1995 *13 April 1941
<i>Phebis sennae</i> (L.)	Cloudless Sulfur	*4 Aug. 1941
<i>Zerene cesonia</i> (Stoll)	Dogface Sulfur	*18 Sept. 1939
<i>Pontia protodice</i> (Bdv.&LeConte)	Checkered White	*4 Aug. 1977 *22 June 1939 *13 April 1941

Family *Lycaenidae* Blues, Coppers, and Hairstreaks

<i>Celastrina neglecta</i> (Edwards)	Summer Azure	12, 14 June 2002
<i>Celastrina ladon</i> (Cram.)	Spring Azure	14 May 2002 *12 June 1941
<i>Charidryas nycteis</i> (Doubleday&Hewitson)	Silvery Checkerspot	14 May 2002 *9 July 1995 *12 June 1941
<i>Everes comyntas</i> (Godart)	Eastern-Tailed Blue	12 June 2002 14 May 2002 *9 July 1995 *9 Aug. 1978 *12 June 1941 *4 Aug. 1941
<i>Lycaena phlaeas americana</i> Harr.	American Copper	14 June 2002 *9 July 1995
<i>Gaeides xanthoides dione</i> (Scudder)	Great Copper	*6 July 1979
<i>Hylolycaena hyllus</i> (Cram.)	Bronze Copper	*12 June 1941
<i>Phycoides tharos</i> (Dru.)	Pearl Crescent	14 May 2002 *9 July 1995 *22 June 1939
<i>Satyrium caryaevorus</i> (McD.)	Hickory Hairstreak	12 June 2002 *12 June 1941
<i>Strymon melinus humuli</i> (Harr.)	Gray Hairstreak	14 May 2002 *13 Sept. 1980

Family *Libytheidae* Snout Butterflies

Libytheana bachmanii (Kirtland) Snout Butterfly *1 Aug. 1978
*9 July 1995

Family *Nymphalidae* The Brush-Footed Butterflies

Basilarchia arthemis (L.) Red-Spotted Purple 14 June 2002
*4 June 1940

Nymphalis antiopa (L.) Mourning Cloak 14 May 2002
*15 June 1941
*13 April 1941
*12 April 1979

Polygonia Comma (Harr.) Comma Butterfly 14 June 2002
*12 June 1941
*13 April 1941
*12 April 1979
*9 Aug. 1978
*7 April 1979

Polygonia interrogationis (F.) Question Mark 12, 14 June 2002
19 May 2002
24 Sept. 2001
*13 April 1941
*1 Aug. 1978

Speyeria cybele (F.) Great Spangled Fritillary 12, 14 June 2002
*9 July 1995
*12 June 1941
*9 June 1940

Euptoieta claudia (Cram.) Varigated Fritillary *9 July 1995
Clossiana bellona (F.) Meadow Fritillary *9 July 1995
Vanessa atalanta (Fruhstorfer) Red Admiral 12, 14 June 2002
24 Sept. 2001
*1 Aug. 1978
*12 April 1979
*15 April 1979
*12 June 1941
*13 April 1941

Vanessa cardui (L.) Painted Lady 14 May 2002
*13 April 1941

Vanessa virginiensis (Dru.) American Painted Lady 19 May 2002
*13 April 1941

Junonia coenia (Hub.) Buckeye 23 June 2002
*9 July 1995

Family Apaturidae

<i>Anea andia</i> Scudder	Goatweed Butterfly	*13 April 1941 *18 Aug. 1939
<i>Asterocama celtis</i> (Bdv.&LeConte)	Hackberry Butterfly	12, 14 June 2002 *13 April 1941 *9 July 1995
<i>Asterocampa clyton</i> (Bdv.&LeConte)	Tawny Emperor	12 June 2002 *9 July 1995 *6 July 1939

Family Satyridae Satyrs and Wood Nymphs

<i>Enodia anthedon</i> A.H. Clark	Pearly Eye	20 April 2002 *12 June 1941
<i>Megiato cymela</i> (Cram.)	Little Wood Satyr	*12 June 1941 *9 July 1995

Family Danaidae Monarchs

<i>Danaus plexippus</i> (L.)	Monarch	14 June 2002 *9 July 1995
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MOTHS**Family Sphingidae Hawk Moths**

<i>Darapsa myron</i> (Cram.)	Hog Sphinx	30 May 2002 *18 May 1978
<i>Paonias myops</i> (J.E. Sm.)	Smalled-Eyed Sphinx	15, 18 July 2001 30 May 2002
<i>Paonias excaectus</i> (J.E. Sm.)	Blinded Sphinx	27 June 2001
<i>Smerinthus jamaicesis</i> (Dru.)	Twin-Spotted Sphinx	2 Sept. 2001
<i>Darapsa phlous</i> (Cram.)	Azalea Sphinx	8 June 2001 15, 18 July 2001
<i>Ceratomia undulosa</i> (Wlk.)	Waved Sphinx	27 June 2001
<i>Ceratomia hageni</i> Grt.	Hagen's Sphinx	27 June 2001 18 July 2001
<i>Hemaris diffinis</i> (Bdv.)	Snowberry Clearwing	*1 Aug. 1978
<i>Hemaris thysbe</i> (F.)	Hummingbird Clearwing	*1 Aug. 1978

Family Saturniidae Silk Moths

<i>Automeris io</i> (F.)	IO Moth	27 June 2001
<i>Dryocampa rudicunda</i> (F.)	Rosy Maple Moth	8 June 2001 15, 18 July 2001 30 May 2002 *4 Aug. 1977
<i>Sphingicampa bicolor</i> (Harr.)	Honey Locust Moth	8, 27 June 2001 15, 18 July 2001 4 Aug. 1977 9 Aug. 1978 *4 Aug. 1939
<i>Actias luna</i> (L.)	Luna Moth	

Family Lasiocampidae Tent Caterpillar and Lappet Moths

<i>Malacosoma americanum</i> (F.)	Eastern Tent Caterpillar Moth	8 June 2001
<i>Malacosoma disstria</i> Hbn.	Forest Tent Caterpillar Moth	8 June 2001

Family Arctiidae Tiger, Lichen & Wasps Moths

<i>Halsidota tessellaris</i> (J.E. Sm.)	Banded Tussock Moth	8, 27 June 2001 15, 18 July 2001 30 May 2002
<i>Spilosoma virginica</i> (F.)	Virgin Tiger Moth	8 June 2001 15, 18 July 2001 2 Sept. 2001 30 May 2002
<i>Estigene acrae</i> (Dru.)	Salt Marsh Moth	15, 18 July 2001 2 Sept. 2001 30 May 2002
<i>Haploa clymene</i> (Brown)	Clymene Moth	15, 18 July 2001
<i>Haploa lecontia</i> (Guer.)	Leconte's Haploa	8 June 2001
<i>Spilosoma latipennis</i> Stretch	Pink-Legged Tiger Moth	8 June 2001 15, 18 July 2001 2 Sept. 2001
<i>Hypoprepia miniata</i> (Kby.)	Scarlet-Winged Lichen Moth	27 June 2001 15, 18 July 2001
<i>Ciseps fulvicollis</i> (Hbn.)	Yellow-Collared Scape Moth	18 July 2001
<i>Grammia phyllira</i> (Dru.)	Phyllira Tiger Moth	8 June 2001 18 July 2001
<i>Holomelina opella</i> (Grt.)	Tawny Holomelina	15 July 2001

Family Notodontidae Prominent Moths

<i>Symmerista albafrons</i> (J.E. Sm.)	WhiteHeaded Prominent	30 May 2002
<i>Nadata gibbosa</i> (J.E. Sm.)	White Dotted Prominent	30 May 2002
<i>Heterocampa obliqua</i> Pack.	Oblique Heterocampa	8, 27 June 2001 15, 18 July 2001 30 May 2002
<i>Heterocampa subrotata</i> Harv.	Small Heterocampa	30 May 2002
<i>Datana contraca</i> Wlk.	Contracted Datana	8, 27 June 2001 15 July 2001
<i>Datana integerria</i> Grt.&Rob.	Walnut Caterpillar Moth	8, 27 June 2001 15, 18 July 2001
<i>Datana perpicua</i> Grt.&Rob.	Spotted Datana	8, 27 July 2001 15, 18 July 2001
<i>Lochnaeus manteo</i> Doubleday	Variable Oakleaf Caterpillar Moth	30 May 2002
<i>Schizura badia</i> Pack.	Chestnut Schizura	18 July 2001
<i>Ellida caniplug</i> (Wlk.)	Linden Prominent	15 July 2001

Family Noctuidae Owlet Moths

<i>Catocala insolabilis</i> Gn.	Inconsolable Underwing	18 July 2001 2 Sept. 2001
<i>Catocala ilia</i> (Cram.)	Ilia Underwing	15 July 2001
<i>Catocala resecta</i> Grt.	Yellow-Gray Underwing	18 July
<i>Catocala vidua</i> (J.E. Smith)	Widow Underwing	24 Sept. 2001
<i>Catocala ultornia</i> (Hbn.)	Ultonia Underwing	22 June 2002 15, 18 July 2001
<i>Catocala micronympha</i> Gn.	Little Nymph	22 June 2001 18 July 2001
<i>Catocala neogama</i> (J.E. Smith)	The Bride	24 Sept. 2001
<i>Catocala robinsoni</i> Grt.	Robinson's Underwing	24 Sept. 2001
<i>Catocala crataegi</i> Saunders	Hawthorn Underwing	15 July 2001
<i>Catocala alabama</i> Grt.	Alabama Underwing	15 July
<i>Catocala lineella</i> Grt.	N/A	18 July 2001
<i>Papaipema rutula</i> (Gn.)	Mayapple Borer	2, 24 Sept. 2001
<i>Anagrapha falcifera</i> (Kby.)	Celery Looper Moth	18 July 2001
<i>Perigea xanthiodes</i> Gn.	Red Groundling	30 May 2002
<i>Zale lunata</i> (Dru.)	Lunate Zale	8 June 2001 15, 18 July 2001 2 Sept. 2001
<i>Zale horrida</i> Hbn.	Horrid Zale	15 July 2001
<i>Zale galbanata</i> (Morr.)	Maple Zale	15, 18 July 2001
<i>Cosmia calami</i> (Harv.)	American Bun-Bar	27 June 2001

Family Noctuidae Owlet Moths (Continued)

<i>Spodoptera ornithogallis</i> (Gn.)	Yellow-Striped Armyworm	8 June 2001 24 Sept. 2001
<i>Scolecocampa liburna</i> (Gey.)	Dead-Wood Borer	22 June 2002
<i>Isogona tenuis</i> (Grt.)	Thin-Lined Owlet	30 May 2002
<i>Caemurigina erechtea</i> (Cram.)	Forage Looper Moth	27 June 2001
<i>Nephelodes minians</i> Gn.	Bronze Cutworm Moth	27 June 2001 24 Sept. 2001
<i>Bomolocha madefactalis</i> (Gn.)	Gray-Edged Bomolocha	30 May 2002
<i>Plathypena scabra</i> (F.)	Green Cloverworm Moth	15 July 2001 2 Sept. 2001
<i>Amphipoea velate</i> (Wlk.)	Veiled Ear Moth	8 June 2001
<i>Galgula partita</i> Gn.	The Wedgeling	8 June 2001
<i>Agrotis ipsilon</i> (Hufn.)	Ipsilon Dart	22 June 2002 15 July 2001 24 Sept. 2001
<i>Agrotis gladiaria</i> Morr.	Swordsman Dart	24 Sept. 2001
<i>Ogdoconta cinoreola</i> (Gn.)	Common Pinkband	15, 18 July 2001 2 Sept. 2001
<i>Ochrupleura plecta</i> (L.)	Flame-Shouldered Dart	15 July 2001
<i>Felita subgothica</i> (Haw.)	Subgothic Dart	24 Sept. 2001
<i>Feltia jaculifera</i> (Gn.)	Dingy Cutworm	15 July 2001 24 Sept. 2001
<i>Xestia bicarnea</i> (Gn.)	Pink-Spotted Dart	2 Sept. 2001
<i>Xestia dolosa</i> Franc.	Greater Black-Lettered Dart	30 May 2002 8 June 2001
<i>Xestia smithii</i> (Snell.)	Smith's Dart	8, 27 June 2001 15, 18 July 2001 2 Sept. 2001
<i>Xestria badinia</i> (Grt.)	Pale-Banded Dart	24 Sept. 2001
<i>Cucullia intermedia</i> Speyer	Intermediate Cucullia	8 June 2001
<i>Protorhodes oviduca</i> (Gn.)	Ruddy Quacker	30 May 2002
<i>Euplexia eenesimilis</i> McDounngh	American Angle Shades	2 Sept. 2001
<i>Heliethis zea</i> (Boddie)	Corn Earworm Moth	2 Sept. 2001
<i>Panapoda rufimargo</i> (Hbn.)	Red-Lined Panopoda	8, 27 June 2001 15, 18 July 2001 24 Sept. 2001
<i>Spiloloma lunilinea</i> Grt.	Moon-Lined Moth	27 June 2001
<i>Choephora fungorum</i> Grt.&Rob.	Bent-Line Dart	24 Sept. 2001
<i>Anomis erosa</i> Hbn.	Yellow Scallop Moth	27 June 2001
<i>Thioptera nigrofimbria</i> (Gn.)	Black-Bordered Lemon Moth	2 Sept. 2001
<i>Stiriodes obtusa</i> (H.-S.)	Obtuse Yellow	8 June 2001
<i>Elaphria versicolor</i> (Grt.)	Varigated Midget	15 July 2001
<i>Homophoberia apicosa</i> (Harr.)	Black Wedge-Spot	30 May 2002

Family Noctuidae Owlet Moths (Continued)

<i>Phosphilia turbulenta</i> Hbn.	Turbulent Phosphilia	30 May 2002
<i>Achatodes zae</i> (Harr.)	Elder Shoot Borer	22 June 2002
<i>Rivula propinqualis</i> Gn.	Spotted Grass Moth	2 Sept. 2001
<i>Peridroma saucia</i> (Hbn.)	Varigated Cutworm Moth	8 June 2001 2 Sept. 2001
<i>Tarachidia erastriodes</i> (Gn.)	Small Bird-Dropping Moth	15 July 2001
<i>Lithacodia carneola</i> (Gn.)	Pink-Barred Lithacodia	8 June 2001 18 July 2001
<i>Eudryas grata</i> (F.)	Beautiful Wood-Nymph	27 June 2001
<i>Agriopodes fallax</i> (H.-S.)	The Green Marvel	15 July 2001 24 Sept. 2001
<i>Leuconycta diptheroides</i> (Gn.)	Green Leuconycta	8, 27 June 2001 15 July 2001
<i>Acronita interrupta</i> (Gn.)	Gray Dagger	8 June 2001 18 July 2001 30 May 2002
<i>Acornia</i> sp.	N/A	15, 18 July 2001
<i>Autographa biloba</i> (Stephens)	Bilobed Looper Moth	8 June 2001
<i>Abagrotis alteranata</i> (Grt.)	Great Red Dart	22 June 2002 2, 24 Sept. 2001
<i>Amphipyra pyramidaides</i> Gn.	Copper Underwing	27 June 2001 18 July 2001 2, 24 Sept. 2001
<i>Leucania linda</i> Franc.	N/A	8 June 2001 15 July 2001
<i>Baileya australis</i> (Grt.)	Small Baileya	18 July 2001

Family Geometridae Geometer Moths

<i>Euchaena amoenaria</i> (Gn.)	Deep Yellow Euchlaena	30, May 2002
<i>Tetracis crocallata</i> Gn.	Yellow Slant-Line	8 June 2001 15, 18 July 2001 2 Sept. 2001 30 May 2002
<i>Tetracis cachexiata</i> Gn.	White Slant-Line	30 May 2002
<i>Xanthotype uriticaria</i> (Dru.)	False Crocus Geometer	8 June 2001 18 July 2001 2 Sept. 2001 30 May 2002
<i>Semiothisa aequiferaria</i> (Wlk.)	Woody Angle	30 May 2002
<i>Lytrosis unitaria</i> (H.-S.)	Common Lytrosis	8 June 2001
<i>Sicya macularia</i> (Harr.)	Sharp-Lined Yellow	8 June 2001
<i>Hypagyrtis unipunctata</i> (Haw.)	One-Spotted Variant	18 July 2001
<i>Hypagyrtis esther</i> (Barnes)	Esther Moth	30 May 2002

Family Geometridae Geometer Moths (Continued)

<i>Mellilla xanthometata</i> (Wlk.)	Orange Wing	15 July 2001
<i>Eubaphe meridiana</i> (Slosson)	The Little Beggar	8 June 2001
<i>Haematopis grataria</i> (F.)	Chickweed Geometer	2 Sept. 2001
<i>Synchlora aerata</i> (F.)	Wavy-Line Emerald	15, 18 July 2001
<i>Prochoerodes transversata</i> (Dru.)	Large Maple Spanworm Moth	27 June 2001 15, 18 July 2001
<i>Epimeicis hortaria</i> (F.)	Tulip-Tree Beauty	27 June 2001 15, 18 July 2001
<i>Calothysanis amaturaria</i> (Wlk.)	Cross-Lined Wave	18 July 2001
<i>Heterophleps refusaria</i> (Wlk.)	Three-Patched Bigwing	22 June 2002
<i>Scopula limboundata</i> (Haw.)	Large Lace-Border	2 Sept. 2001
<i>Cepphis armataria</i> (H.-S.)	Scallop Moth	15 July 2001
<i>Hypagyrtis unipunctata</i> (Haw.)	One-Spotted Variant	18 July 2001
<i>Pero hubneraria</i> (Gn.)	Hubner's Pero	15 July 2001
<i>Pero honestaria</i> (Wlk.)	Honest Pero	24 Sept. 2001
<i>Eulithis diversilineata</i> (Hbn.)	Lesser Grapevine Looper	22 June 2002 24 Sept. 2001
<i>Xanthorhoe lacustrata</i> (Gn.)	Toothed Brown Carpet	8 June 2001 15, 18 July 2001 2 Sept. 2001
<i>Orthonama centrostrigaria</i> (Woll.)	Bent-Line Carpet	8 June 2001

Family Oecophoridae Oecophorid Moths

<i>Antaeotricha schhlaegeri</i> (Zell.)	N/A	30 May 2002
<i>Antaeotricha leucillana</i> (Zell.)	N/A	15 July 2001

Family Yponomeutidae Ermine Moths

<i>Atteva punctella</i> (Cram.)	Ailanthus Webworm Moth	15, 18 July 2001 2 Sept. 2001
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Family Limacodidae Slug Caterpillar Moths

<i>Prolimaiodes badia</i> (Hbn.)	Skiff Moth	15 July 2001
<i>Sibins stimulea</i> (clem)	Saddleback Caterpillar	15 July 2001
<i>Lithacodes fasciola</i> (H.-S.)	N/A	8 June 2001

Family Tortricidae Tortricid Moths

<i>Choristoneura fractivittana</i> (Clem.)	N/A	30 May 2002
<i>Argurotaenia alisellana</i> (Rob.)	N/A	30 May 2002
<i>Eucosma dorsisignatana</i> (Clem.)	N/A	30 May 2002
<i>Argyrotenia quercifoliana</i> (Finch)	N/A	11 July 2001
<i>Choristoneura parallela</i> (Rob.)	Spotted Fireworm Moth	2 Sept. 2001
<i>Pandemis limitata</i> (Rob.)	Three-Lined Leafroller	2 Sept. 2001

Family Pyralid Pyralid Moths

<i>Ostrinia nubilalis</i> (Hbn.)	European Corn Borer Moth	18 July 2001 24 Sept. 2001 30 May 2002
<i>Crambus agitatellus</i> (Clem.)	N/A	24 Sept. 2001
<i>Crambus laqueatellus</i> Clem.	N/A	24 Sept. 2001
<i>Pantographa limata</i> (Grt.&Rob.)	Linden Leafroller Moth	15, 18 July 2001
<i>Desmia funeralis</i> (Hbn.)	Grapeleaf Folder Moth	2 Sept. 2001
<i>Pyrausta tyralis</i> (Gn.)	N/A	8 June 2001
<i>Pyrausta bicoloralis</i> (Gn.)	N/A	18 July 2001
<i>Herculia olinalis</i> (Gn.)	N/A	8 June 2001
<i>Tosale oviphagalis</i> (Wlk.)	N/A	30 May 2002
<i>Papita magniferalis</i> (Wlk.)	N/A	30 May 2002 15, 18 July 2001

Family Epiplemidae Epiplemid Moths

<i>Calledapteryx dryopterata</i> Grt.	Brown Scoopwing	30 May 2002
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Family Tineidae

<i>Acrolophus</i> sp.	N/A	11 June 2002 18 July 2001
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ORDER ODANATA

Family <i>Coenagrionidae</i>	Pond Damselflies	
<i>Argia apicalis</i> (Say)	Blue-Footed Dancer	12 June 2002
Family <i>Aeshnidae</i>	Darner Dragonflies	
<i>Anax junius</i>	Green Darner	14 May 2002 12 June 2002
Family <i>Gomphidae</i>	Clubtail Dragonflies	
<i>Gomphus (Gomphurus) externus</i> Hagen in Selys	N/A	12 June 2002
Family <i>Coruliidae</i>	Emerald Dragonflies	
<i>Epicordulia princeps</i> (Hagen)	Prince Baskettail	14 June 2002
Family <i>Libellulidae</i>	Skimmer Dragonflies	
<i>Libellula lydia</i>	Common Whitetail	14 May 2002 12, 14 June 2002
<i>Pantela hymenaea</i> (Say)	Spot-Winged Glider	12 June 2002
<i>Erythemis simplicicollis</i> (Say)	Eastern Pondhawk	12 June 2002
<i>Pachydiplax longipennis</i> (Burmeister)	Blue Dasher	14 June 2002

ORDER COLEOPTERA**BETLES****Family Cerambycidae****Long-Horn Beetles***Enaphalodes cortiphagus* (Craighead)

Oak-Bark Scarrer

27 June 2001

15 July 2001

Orthosoma brunneum (Forst.)

Brown Prionid

15, 18 July 2001

Family Passalidae**Bess Beetles***Pseudohucamus capreolus* (L.)

Stag Beetle

27 June 2001

15 July 2001

Family Scarabaeidae**Scarab Beetles***Geotrupes splendidus* (F.)

Earth-Boring Dung Beetle

30 May 2002

Phanaeus vindex (MacL.)

Dung Beetle

30 May 2002

8 June 2001

Family Carabidae**Ground Beetles***Calosoma scrutator* (F.)

Caterpillar Hunter

30 May 2002

Family Cicindulidae**Tiger Beetles***Cicindela soaguttata* (F.)

N/A

14, 30 May 2002

12, 14 June 2002

Family Erotylidae**Pleasey Fungus Beetle***Megalodacne heros* (Say)

N/A

27 June 2001

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