

INSECTS OF NORTH LAMBTON



"THE KARNER BLUE" by B. and B. KULON

SKEVINGTON • CALOREN • STEAD • ZUFELT



EDITED BY J. CONNOP

PUBLISHED BY LAMBTON WILDLIFE INC.

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by

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LAMBTON WILDLIFE INCORPORATED
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LAMBTON Wildlife Incorporated (LWI) is a non-profit, voluntary organization founded in 1966 and is licensed as a charitable corporation under the Income Tax Act. LWI is funded by donations from its membership and periodic fund raising.

LWI owns or manages three Lambton County properties, in Port Franks and Sarnia, Ontario (see above). It also is a contributing member of the Federation of Ontario Naturalists, Nature Canada, the Environmental Law Association and the Carolinian Canada organization. The club owns and manages the Mandaumin Woods Nature Reserve which it purchased through fund raising by its members and it helped to finance the purchase of a property in Sarnia known as Wawanosh Wetlands which is owned and managed by the St. Clair Conservation Authority. LWI has managed the Howard Watson Nature Trail in Sarnia and Camlachie since the mid 1980's. This trail is now under joint management with Bluewater Trails Committee.

The club meets at the Kiwanis Centre, 180 College Street North, Sarnia, at 7:30 p.m. on the last Monday of the month, September through November and January through March and has its AGM in April. It publishes a newsletter, Earthways ©, eight times a year, in the month of or prior to a membership meeting.

**FRONT COVER COMPLIMENTS OF KEN HALL
SARNIA LAMBTON ENVIRONMENTAL ASSOCIATION**

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INSECTS OF NORTH LAMBTON

FOREWORD

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Introduction

In southern Ontario we are living among the fragments of one of the rarest ecosystems remaining in eastern North America. Remnants of oak savanna, a habitat dominated by several species of oak trees, and open, grassy understorey persist in tiny pockets throughout southern Ontario and adjacent American states. The largest remaining fragments of this habitat in Canada occur in the Regional Municipality of Haldimand-Norfolk (particularly in the area around St. Williams) and in Lambton County (in pockets along the lakeshore from Grand Bend to Sarnia, and areas around Windsor). This ecosystem first gained public prominence in the late 1980's when the plight of the now extirpated Karner Blue butterfly (*Lycaeides melissa samuelis* Nabakov) was recognized. Dale Schweitzer played one of the most important roles in early studies of Lepidoptera in this habitat in Ontario and alerted others to the rapidly declining populations of the Karner Blue. Fortunately, other populations of this butterfly exist in the north central and northeastern USA.

The legacy of the Karner Blue lives on in Ontario and has served to illustrate how important insects are in monitoring the health of fragmented ecosystems like oak savanna. On the heels of the extirpation of the butterfly in Canada came the first attempts to survey the insect fauna in north Lambton County. From May 1991 to September 1994 Jeff Skevington, Gordon Vogg, Don Tyerman, Ken Stead, Ian and Neva Carmichael collected insect specimens at Pinery Provincial Park near Grand Bend. Surveys continued in 1995 and 1996 but were less intensive. This work involved hand-collecting and Malaise trapping in all accessible habitats throughout the summer. In spring and fall less intensive collecting was done which added to a total of about 600 hours spent in collecting in Pinery Park. From 1993 to 2000, Ken Stead and Kirk Zufelt collected and identified Lepidoptera in the area bounded by Pinery Provincial Park, Kettle Point, Lake Huron and Highway 21. All of their sightings were made at mercury vapour or black lights overlooking "L" lake in Port Franks unless specified in the text Their determinations have been confirmed by a number of professional entomologists (see acknowledgments) and contribute to almost half of the total species recorded for this survey. Dr. Don Lafontaine and Dr. Dale Schweitzer provided considerable guidance with respect to this part of the survey.

While these informal surveys were being conducted, Dr. Laurence Packer of York University, Toronto, began collecting insects in oak savannas in Ontario in 1994. He was assisted by Stephen Bright of Lambton Wildlife Incorporated (LWI) in erecting Malaise traps in the Karner Blue Sanctuary in Port Franks and Terry Crabe of Pinery Provincial Park.

In 1995 Jeff Skevington proposed that LWI coordinate a formal survey using the data collected since 1990 plus specimens to be collected during the 1996 season of insect activity. Plans were formulated and the Port Franks Properties Management Committee of LWI became the official operator of the North Lambton Insect Inventory. Many LWI members contributed to the project both in the field and in administrative work which included a very successful fund raising effort by

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Peter Banks. Banks and Joe Connop formed the administrative backbone of the project while Jeff Skevington conceived and carried it out.

Over \$32,000 was raised to pay for collection, identification and publication of data. With the financial and administrative backing of LWI, field work for the survey was conducted in 1996, lab work continued throughout 1997, and the final draft of the complete list was completed in 2001. In 1996, the specimens were collected by hand and in six Malaise traps in a variety of micro habitats in Port Franks from June 1st to September 30th, primarily by Jeff Skevington. Three hundred and forty-three hours were spent collecting by hand in the field. Jeff and Angela Skevington then sorted, pinned and labeled much of the material and started the process of identification. With the help of 35 professional and amateur entomologists (see acknowledgments) the list was built. Dave Caloren, who took over from Skevington as project scientist from April 1997 to February 1998, continued the process of identification. Skevington continued to work as a volunteer on the project from 1997 to 2001 (primarily on publications; see list of publications and presentations). The final draft was edited by Skevington, Stead, Steve Paiero, Jason Dombroskie and Connop.

Data from the inventory will be used as a baseline to assess long term changes to the North Lambton ecosystems. This includes changes brought about by direct habitat management. Oak savanna is maintained naturally by accidental fire and deer grazing. Both of these regulators are now under direct human management in North Lambton reserves and parks. In addition, undesirable invasion by alien plants is controlled by a process of clearing with controlled burns in the spring. The floral makeup of this ecosystem is easy to monitor but does not necessarily indicate the relative health of the savanna. The goal of LWI is not to maintain a beautiful botanical garden devoid of animal life, but to preserve an ecosystem with all of its natural inhabitants, both floral and faunal. In time, insects will provide us with the resolve to successfully manage these lands. Insects form the greatest number of species of any life form to be found there. If we do not immediately understand the intricate relationships among the species found in the reserve and elsewhere then many are destined to follow the Karner Blue butterfly into extirpation or even extinction. We hope that the survey will identify some of the indicator species that will help to monitor the health of the ecosystem a long way into the future.

With the exception of most Lepidoptera, specimens collected during the survey were deposited in the University of Guelph Insect Collection (DEBU). Most of the significant Lepidoptera were deposited in the Canadian National Insect Collection (CNC). The rest are in Ken Stead's and Kirk Zufelt's personal collections. A few representative specimens are in the Pinery Provincial Park Insect Collection.

The project was heartily endorsed and encouraged by Dr. Steve Marshall of the University of Guelph, Dr. John Morton of the University of Waterloo and Dr. Laurence Packer of York University. Our thanks go to them, all of the people who made this project a success scientifically, and to those who assisted it with their labours and financial support. Please see the specific credits listed in the acknowledgments.

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The History and the Future of Entomology in Lambton County

Several scientists have recognized the significance of North Lambton County habitats over the years and helped to build the backbone of data for the region. George E. Shewell was the first to collect heavily in the savanna areas around Grand Bend (in the 1930's) before Pinery was a park. Specimens that he collected are in CNC; they provided the best long term comparative data for our work. More recently (in the 1980's), Kevin Barber spent a great deal of time collecting Diptera in and around the park. Kevin is a remarkable collector who accumulated a considerable diversity of data about flies during his time working in North Lambton. Specimens he collected are in DEBU and these formed the base of our Diptera list. Ever since Kevin's work, Guelph has been the focal point for research on the diversity of Lambton insects and has become the best source of data for the insects of the region. Unidentified material from the survey will continue to be examined by scientists from around the world and will be available for study in perpetuity.

Survey Sites

Pinery Provincial Park: This park contains a spectacular series of coastal sand dunes together with a mosaic of cedar savanna, prairie, heath and barrens which parallel Lake Huron's eastern shore. Wet, calcareous meadows occur in several low, inter-dunal depressions. Oak-pine woodlands and savannas cover the rolling dune landscape. River floodplain habitats occupy the inactive channel of the Ausable River, which runs the length of the park (Lindsay, 1982). Bakowsky (1990) presented a detailed analysis of the floral ecology of Pinery's different habitats.

Of these vegetative communities, oak savanna is one of the most significant. According to Bakowsky (1990), savannas are the rarest of Ontario's plant communities and at least two thirds of Pinery supports this type of vegetation. At one time, eastern oak savanna flourished between the boundaries of the prairies of the mid-west and the northeastern deciduous forest (Bakowsky, 1990). The occurrence of mid-western vegetation in Ontario, so far from its main range, may be explained by the postulated hypsithermal period which occurred when the climate warmed 4,000 to 8,000 years ago (Deevey and Flint, 1957; Sziecz and MacDonald, 1991). This likely resulted in the vegetation of many upland areas in the northeast changing from deciduous forest to prairie. Subsequent climatic cooling is thought to have reduced the extent of the grasslands. Recent clearing of land for agriculture ultimately has left only a few pockets of this rare habitat in Ontario. Oak savanna covered 11 to 13 million hectares of the mid-western US when settlement began; by 1985 only about 2,600 hectares, or 0.2%, remained (Nuzzo, 1986). In Ontario, savanna is restricted mainly to isolated localities along the Great Lakes.

In recent years, a dense population of White-tailed Deer (*Odocoileus virginianus*, (Zimm.)) has greatly reduced the understorey vegetation in Pinery Park (Bakowsky, 1990; Schweitzer, 1993). Many deer were culled in 1998 and 2000 and recovery of some vegetation is already evident. Hopefully, these changes will favorably affect the diversity and abundance of arthropods associated with savanna ecosystems.

Karner Blue Sanctuary: This small nature reserve is an inter-dunal oak savanna in Port Franks. It was purchased in 1988 by Lambton Wildlife through the Carolinian Canada organization with actual funding from the Ontario Heritage Foundation, Wildlife Habitat Canada and the Nature Conservancy of Canada. The purpose was to protect one of the two remaining populations of the Karner Blue butterfly in Canada. Starting in 1988, a series of hot, dry summers followed by

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severely reduced snow cover in subsequent winters resulted in the extirpation of both populations in Ontario. Colonies of many of the savanna plants declined in size and number, probably due to these weather phenomena and the increasing canopy cover. Despite this, the reserve is now in good condition botanically. Some white pines and a few large oaks have been cut back or removed to open up the canopy and two prescribed burns have taken place to control invasive vegetation. Unlike the savannas in Pinery, this area has not been browsed heavily by deer.

Port Franks Forested Dunes Nature Preserve: This is a much larger nature reserve owned by the Nature Conservancy of Canada and managed by Lambton Wildlife. It is surrounded by the Lambton County Forest, “L” Lake and Mud Creek all, of which are protected by the county and the Ausable Bayfield Conservation Authority. This property, the adjacent properties and the Karner Blue Sanctuary are part of an ANSI (Area of Natural and Scientific Interest) proclaimed by the Province of Ontario in the 1980's. As with the Karner Blue Sanctuary, the impacts from deer and humans are diminished by the location and the protected status of the property. Floodplain forests dominate the lowlands on the east side of the property. The habitat contains more structure than similar areas in Pinery and there is a pronounced growth of herbaceous and woody understorey plants. Low deer numbers and frequent flooding of Mud Creek with its associated nutrient wash contribute to the lush landscape in the property. Insect diversity here is noticeably different than in the floodplain forests of Pinery. A series of old, stabilized sand dunes bisect the property to the west of the floodplain forest. The eastern slopes of the dunes contain oak forests similar to those found in Pinery; the dune tops consist typically of cedar savanna and the western flanks of some dunes give way to oak savanna. Eastern White Cedar (*Thuja occidentalis* L.) and Eastern Hemlock (*Tsuga canadensis* (L.)) fringe “L” Lake on the west side of the reserve.

Kettle and Stoney Point First Nations: (formerly Ipperwash Military Base) This is an aboriginal reserve which contains similar habitats to those of Port Franks Forested Dunes. The most notable difference is the presence of large coastal dunes. Skevington sampled the periphery of the reserve only; permission to enter it was not available. Overall, the fauna is likely analogous to that of the Port Franks Forested Dunes, although the open sand dunes and wet interdunal meadows certainly support additional taxa.

Publications and Presentations Resulting from this Survey

Skevington, J. (1994). Rare insects of Pinery Provincial Park, Ontario. Ontario Ministry of Natural Resources.

Skevington, J. (1996a). Lambton Insect Inventory. *Ontario Insects* 2, 6-7.

Skevington, J. (1996b). LWI conducting insect inventory on two Port Franks properties. *Earthways* 1996, 2.

Skevington, J. (1996c). Butterflies of Pinery Provincial Park. Presentation to Woodstock Field Naturalists' Club. Woodstock, Ontario.

Skevington, J. (1997a). Insect diversity in an endangered Ontario ecosystem. *Entomological Society of Queensland News Bulletin* 25, 111-116.

Skevington, J. (1997b). Butterflies of Lambton County. Presentation to Bluewater Audubon, Society of Port Huron, Michigan.

Skevington, J. (1997c). Insect diversity in an endangered Ontario ecosystem. Presentation to The Entomological Society of Queensland. Brisbane, Queensland, Australia.

Skevington, J. (1997d). Insects of Lambton County. Presentation to Toronto Entomologists' Association. Toronto, Ontario.

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- Skevington, J., Stead, K., Caloren, D. and Connop, J. 2000. The insects of North Lambton County, Ontario, Canada, [<http://www.uoguelph.ca/~samarsha/Lambton-tableofcontents.htm>] (accessed 29 July 2000). Lambton Wildlife Incorporated and the University of Guelph.

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George Cedric Metcalfe Charitable Foundation
Helen McCrea Peacock Foundation
Lambton Wildlife Incorporated Conservation Fund, Sarnia, Ontario
Lawson-McMechan Fund
McIlwraith Field Naturalists (Inc.), London, Ontario
Members of Lambton Wildlife Incorporated, Sarnia, Ontario
Port Franks Optimists, Port Franks, Ontario
St. Clair Fence and Deck, Sarnia, Ontario
Sydenham Field Naturalists, Wallaceburg and Chatham, Ontario
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Abbreviations

AA - Andrew Applejohn
AHR - Alf Rider
AN - Dr. Al Norborn
ALP - Al Patterson
AS - Angela Skevington
AW - A. Walde
BVB - Dr. Brian V. Brown
BC - Bob Curry
BK - Bill Kilburn
BrK - Brenda Kulon
BerL - Dr. Bernard Landry
BL - Bill Lamond
CC - Colleen Christopherson
CDD - Dr. Charles D. Dondale (Dondale & Redner, 1978, 1982, 1990)
CNC - Canadian National Insect Collection, Ottawa
DCC - Dave Caloren
DEB - Dr. Don E. Bright (Bright, 1976, 1987)
DFS - Dr. Dale Schweitzer
DBM - Dr. Dave B. McCorquodale
KMK - Dr. D. Keith M. Kevan (Vickory & Kevan, 1985)
DMW - Dr. D. Monty Wood (Wood *et al.*, 1979)
ELQ - Dr. Eric L. Quinter
EMF - Dr. Eric M. Fisher
EMW - Dr. E.M. Walker
FEK - Dr. F.E. Kurczewski
GB - Dr. George Balogh
GC - Geoff Cattrall
GES - Dr. George E. Shewell
GV - Gordon Vogg
GS - Dr. Geoff Scudder
GJU - Dr. Gary J. Umphrey
HJT - Dr. H.J. Teskey (Teskey, 1990)
IC - Ian Carmichael
JCER - Dr. J.C.E. Riotte
JDL - Dr. J. Donald Lafontaine
JFL - Dr. Jean-François Landry
JH - Dr. John Heraty
JHR - Dr. James H. Redner (Dondale & Redner, 1978, 1982, 1990)
JHS - Dr. Jeff H. Skevington
JKM - Dr. John Morton
JRV - Dr. J. Richard Vockeroth (Vockeroth, 1992)
JSW - J.S. Watson
KAH - Dr. K. Andy Hamilton (Hamilton, 1982)
KB - Dr. Kevin Barber
KBB - Dr. K.B. Bolte
KHS - Ken Stead
KMK - Dr. Keith M. Kevan
KZ - Kirk Zufelt
LAK - Dr. L.A. Kelton (Kelton, 1978)
LP - Dr. Laurence Packer *et al.*
MS - Dr. Michael Sabourin
NHIC - Natural Heritage Information Centre, Peterborough, Ontario
NIP - Dr. Norman I. Platnick (Platnick & Dondale, 1992)
PTD - Dr. P.T. Dang
QFH - Quimby F. Hess
RAC - Dr. Robert A. Cannings
RSA - Dr. R.S. Anderson (Anderson & Peck, 1985)
SAM - Dr. Steve A. Marshall
SBP - Dr. Stewart B. Peck (Anderson & Peck, 1985)
SWB - Dr. Steve W. Bullington
TWD - Dr. Ted W. Donnelly
DEBU - University of Guelph Insect Collection, Guelph
VRV - Dr. Vernon R. Vickery (Vickory & Kevan, 1985)
WB - Wayne Bennett
WHE - W.H. Edwards
XS - Dr. Xuikui Sun

Key to Locations (-ABCDEF-) A: Karner Blue Sanctuary, B: Port Franks Forested Dunes, C: Pinery Provincial Park, D: Kettle Point Area, E: Ipperwash Area, F: Any where in North Lambton County, -(Ob)- : Observed only, -(P)- : Photographed only.

Key to Authors, Consultants and Contributors [JHS, DCC, KHS, KZ etc.] Initials in square brackets denote those who first identified and/or confirmed the species identification and are in alphabetical order by surname in most cases. (See list in **Abbreviations**, page vi.)

ORDER: COLLEMBOLA

Family: Poduridae

ORDER: THYSANURA

Family: Lepismatidae

Genus: Lepisma

saccharina Linnaeus SILVERFISH -C- [JHS, GV]

Genus: Thermobia

domestica (Packard) FIREBRAT -D(Ob)- [AHR]

ORDER: ARCHAEOGNATHA (Microcoryphia)

Family: Machilidae

ORDER: EPHEMEROPTERA

Family: Heptageniidae

Family: Leptophlebiidae

Family: Ephemeridae

ORDER: ODONATA

SUBORDER: ZYGOPTERA

Family: Calopterygidae (Aagriidae)

Genus: Calopteryx

maculata (Beauvois) EBONY JEWELWING -BCF- [IC, JHS]

Genus: Hetaerina

americana (Fabricius) AMERICAN RUBYSPOT -F- [JHS]

Family: Lestidae

Genus: Lestes

disjunctus disjunctus Selys COMMON SPREADWING -CF- [IC, JHS]

dryas Kirby EMERALD SPREADWING -B- [JHS]
forcipatus Rambur SWEETFLAG SPREADWING -F- [EMW]
inaequalis Walsh ELEGANT SPREADWING -C- [IC, JHS]
rectangularis Say SLENDER SPREADWING -BC- [IC, JHS]
unguiculatus Hagen LYRE-TIPPED SPREADWING -BC- [IC, JHS]
vigilax Hagen SWAMP SPREADWING -BCE- [IC, JHS]

Family: Coenagrionidae

Genus: Argia

apicalis (Say) BLUE-FRONTED DANCER -CF- [IC, JHS]
fumipennis violacea (Hagen) VARIABLE DANCER -BC- [IC, JHS]

Genus: Chromagrion

conditum (Hagen in Selys) AURORA DAMSEL -B- [JHS]

Genus: Coenagrion

resolutum (Hagen in Selys) TAIGA BLUET -B- [JHS]

Genus: Enallagma

antennatum (Say) RAINBOW BLUET -BC- [IC, JHS]
basidens Calvert DOUBLE-STRIPED BLUET -C- [RAC]
carunculatum Morse TULE BLUET -C- [IC, JHS]
civile (Hagen) FAMILIAR BLUET -ABCF- [GC, IC, JHS]
cyathigerum (Charpentier) NORTHERN BLUET -C- [IC, JHS]
ebrium (Hagen) MARSH BLUET -B- [JHS]
exsulans (Hagen) STREAM BLUET -C- [IC, JHS]
geminatum Kellicott SKIMMING BLUET -BC- [IC, JHS]
hageni (Walsh) HAGEN'S BLUET -BC- [IC, JHS]
signatum (Hagen) ORANGE BLUET -C- [IC, JHS]
traviatum westfalli Donnelly SLENDER BLUET -BC- [TWD, JHS]
vesperum Calvert VESPER BLUET -C- [IC, JHS]

Genus: Ischnura

posita (Hagen) FRAGILE FORKTAIL -BC- [IC, JHS]
verticalis (Say) EASTERN FORKTAIL -ABCF- [IC, JHS]

Genus: Nehalennia

irene (Hagen) SEDGE SPRITE -B- [JHS]

Family: Aeshnidae

Genus: Aeshna

canadensis Walker CANADA DARNER -BC- [JHS]
constricta Say LANCE-TIPPED DARNER -ABC- [IC, JHS]
umbrosa umbrosa Walker SHADOW DARNER -C- [IC, JHS]
verticalis Hagen GREEN-STRIPED DARNER -B- [JHS]

Genus: Anax

junius (Drury) COMMON GREEN DARNER -A(Ob)BC- [IC, JHS]

Genus: Basiaeschna

janata (Say) SPRINGTIME DARNER -BC- [IC, JHS]

Genus: Boyeria

vinosa (Say) FAWN DARNER -BC- [JHS]

Family: Gomphidae*Genus: Arigomphus*

furcifer (Hagen) LILYPAD CLUBTAIL -C- [IC, JHS]

Genus: Gomphus

fraternus fraternus (Say) MIDLAND CLUBTAIL -B- [JHS]

exilis Selys LANCET CLUBTAIL -BC- [IC, JHS]

graslinellus Walsh PRONGHORN CLUBTAIL -C- [JHS]

spicatus Hagen in Selys DUSKY CLUBTAIL -BC- [IC, JHS]

Genus: Stylurus

notatus (Rambur) ELUSIVE CLUBTAIL -F- [EMW]

Family: Corduliidae*Genus: Dorocordulia*

libera (Selys) RACKET-TAILED EMERALD -B- [JHS]

Genus: Epithea

cynosura (Say) COMMON BASKETTAIL -BC- [IC, JHS]

Genus: Somatochlora

williamsoni Walker WILLIAMSON'S EMERALD -E- [JHS]

Family: Libellulidae*Genus: Celithemis*

elisa (Hagen) CALICO PENNANT -ABCE- [IC, JHS]

eponina (Drury) HALLOWEEN PENNANT -C- [IC, GV]

Genus: Erythemis

simplicicollis (Say) EASTERN PONDHAWK -BC- [IC, JHS]

Genus: Leucorrhinia

frigida Hagen FROSTED WHITEFACE -E- [JHS]

glacialis Hagen CRIMSON-RINGED WHITEFACE -F- [JHS]

intacta (Hagen) DOT-TAILED WHITEFACE -BC- [IC, JHS]

Genus: Libellula

incesta Hagen SLATY SKIMMER -AB- [JHS]

julia Uhler CHALK-FRONTED CORPORAL -BC- [IC, JHS]

luctuosa Burmeister WIDOW SKIMMER -ABC- [IC, JHS]

lydia Drury COMMON WHITETAIL -A(Ob)BC- [IC, JHS]

pulchella Drury TWELVE-SPOTTED SKIMMER -BC- [IC, JHS]
quadrimaculata Linnaeus FOUR-SPOTTED SKIMMER -F- [EMW]

Genus: *Nanothemis*

bella (Uhler) ELFIN SKIMMER -F- [EMW]

Genus: *Pachydiplax*

longipennis (Burmeister) BLUE DASHER -B(P)- [JHS]

Genus: *Pantala*

flavescens (Fabricius) GLOBE GLIDER -CEF- [JHS]

Genus: *Perithemis*

tenera (Say) EASTERN AMBERWING -BC- [IC, JHS]

Genus: *Sympetrum*

costiferum (Hagen) SAFFRON-WINGED MEADOWHAWK -F- [EMW]
internum Montgomery CHERRY-FACED MEADOWHAWK -B- [JHS]
obtrusum (Hagen) WHITE-FACED MEADOWHAWK -ABCE- [IC, JHS]
rubicundulum (Say) RUBY MEADOWHAWK -ABCF- [IC, JHS]
semicinctum (Say) BAND-WINGED MEADOWHAWK -B- [JHS]
vicinum (Hagen) YELLOW-LEGGED MEADOWHAWK -A(Ob)BC- [IC, JHS]

Genus: *Tramea*

lacerata Hagen BLACK SADDLEBAGS -B(Ob)C(Ob)- [JHS]

ORDER: ORTHOPTERA

Family: Rhapidophoridae

Genus: *Ceuthophilus*

brevipes Scudder -F- [KMK, VRV]
maculatus (Harris) -C- [JHS]
meridionalis Scudder -AC- [JHS]
silvestris Bruner -B- [JHS]

Family: Tettigoniidae

Subfamily: Conocephalinae

Genus: *Conocephalus*

brevipennis (Scudder) -BCD- [JHS]
fasciatus (De Geer) -C- [JHS]

Genus: *Neoconocephalus*

ensiger (Harris) -BC- [JHS, AW]

Genus: *Orchelimum*

gladiator Bruner -C- [JHS]
vulgare Harris -AC- [JHS]

Subfamily: Pseudophyllinae*Genus: Pterophylla**camellifolia* (Fabricius) -A(Ob)B(Ob)C- [JHS, AW]**Subfamily: Phaneropterinae***Genus: Amblycorypha**oblongifolia* (De Geer) -BC- [JHS]*Genus: Scudderia**curvicauda* (De Geer) -ABC- [JHS]*furcata furcata* Brunner von Wattenwyl -BC- [JHS]*pistillata* Brunner von Wattenwyl -BC- [JHS]*septentrionalis* (Audinet-Serville) -ABC- [JHS]**Family: Gryllidae****Subfamily: Nemobiinae***Genus: Allonemobius**allardi* (Alexander & Thomas) -B- [JHS]*fasciatus* (De Geer) -B- [JHS]*Genus: Eunemobius**carolinus* (Scudder) -C- [JHS]*Genus: Neonemobius**palustris* (Blatchley) -F- [KMK, VRV]**Subfamily: Gryllinae***Genus: Acheta**domesticus* (Linnaeus) -C- [JHS]*Genus: Gryllus**pennsylvanicus* Burmeister -ABC- [JHS]*veletis* (Alexander & Bigelow) -BC- [JHS]**Subfamily: Oecanthinae***Genus: Oecanthus**nigricornis* F. Walker -ABCF- [JHS]*quadripunctatus* Beutenmüller -AE- [JHS]**Family: Gryllotalpidae***Genus: Neocurtilla**hexadactyla* (Perty) -E- [AHR, JHS, GV]

Family: Acrididae

Subfamily: Cyrtacanthacridinae

Genus: *Schistocerca*

emarginata (Scudder) -A- [JHS]

Subfamily: Melanoplinae

Genus: *Melanoplus*

angustipennis angustipennis (Dodge) -C- [JHS]

bivittatus (Say) -B(Ob)- [FEK]

confusus Scudder -C- [JHS]

femurrubrum femurrubrum (De Geer) -C- [JHS]

keeleri luridus (Dodge) -F- [KMK, VRV]

sanguinipes sanguinipes (Fabricius) -F- [KMK, VRV]

Genus: *Paroxya*

hoosieri (Blatchley) -A- [JHS]

Subfamily: Locustinae (Oedipodinae)

Genus: *Arphia*

pseudonietana pseudonietana (Thomas) -BC- [JHS]

sulphurea (Fabricius) -AC- [JHS]

Genus: *Camnula*

pellucida (Scudder) -F- [KMK, VRV]

Genus: *Chortophaga*

viridifasciata (De Geer) -C- [JHS]

Genus: *Dissosteira*

carolina (Linnaeus) -ABCF- [JHS, GV]

Genus: *Encoptolophus*

sordidus (Burmeister) -F- [KMK, VRV]

Genus: *Spharagemon*

bolli bolli Scudder -AC- [JHS]

collare (Scudder) -BC- [JHS]

Genus: *Stethophyma*

lineatum (Scudder) -F- [KMK, VRV]

Genus: *Trimerotropis*

maritima interior E.M. Walker -C(Ob)E- [JHS]

Subfamily: Gomphocerinae

Genus: Aulocara

elliotti? (Thomas) -B- [JHS]

Genus: Chloealetis

conspersa (Harris) -C- [JHS]

Genus: Chorthippus

curtipennis curtipennis (Harris) -F- [KMK, VRV]

Genus: Orphulella

pelidna pelidna (Burmeister) -F- [KMK, VRV]

speciosa? (Scudder) -C- [JHS]

Genus: Pseudopomala

brachyptera (Scudder) -AC- [JHS, GV]

Family: Tetrigidae

Subfamily: Tetriginae

Genus: Nomotettix

cristatus cristatus (Scudder) -BC- [JHS]

Genus: Paratettix

cucullatus (Burmeister) -F- [JHS]

Genus: Tetrix

arenosa angusta (Hancock) -B- [JHS]

brunnerii (Bolivar) -F- [KMK, VRV]

ornata ornata (Say) -B- [JHS]

subulata (Linnaeus) -F- [KMK, VRV]

Subfamily: Batrachideinae

Genus: Tettigidea

lateralis (Say) -F- [KMK, VRV]

Family: Tridactylidae

Genus: Ellipes

minutus minutus (Scudder) -BC- [JHS]

ORDER: BLATTODEA

Family: Blattidae

Subfamily: Blattinae

Genus: Blatta

orientalis Linnaeus ORIENTAL COCKROACH -D- [JHS]

Family: Blattellidae**Subfamily: Blattellinae***Genus: Parcoblatta**pennsylvanica* (De Geer) -BCD- [JHS]*uhleriana* (Saussure) -ABC- [JHS]*virginica* (Brunner von Wattenwyl) -F- [KMK, VRV]**ORDER: PHASMATODEA****Family: Heteronemiidae***Genus: Diapheromera**femorata* (Say) -BC- [JHS]**ORDER: MANTODEA****Family: Mantidae***Genus: Mantis**religiosa* (Linnaeus) PRAYING MANTIS -BC- [JHS]**ORDER: DERMAPTERA****Family: Forficulidae***Genus: Forficula**auricularia* Linnaeus -BC- [JHS]**ORDER: HETEROPTERA****Family: Gerridae***Genus: Gerris**spp.* -AC- [DCC]*Genus: Trepobates**spp.* -B- [DCC]**Family: Mesoveliidae***Genus: Mesovelia**mulsanti* White -BC- [JHS]**Family: Saldidae***Genus: Saldula**spp.* -C- [DCC]**Family: Corixidae**

Family: Belostomatidae*Genus: Belostoma**fluminea* Say -C- [JHS]*Genus: Lethocerus**americanus* (Leidy) -CE- [JHS, GV]**Family: Nepidae***Genus: Nepa**apiculata* Uhler -F- [JHS]*Genus: Ranatra**spp.* -C- [JHS]**Family: Notonectidae***Genus: Notonecta**irrorata* Uhler -F- [DCC]*lunata* Hungerford -C- [DCC]*undulata* Say -BCF- [DCC]**Family: Gelastocoridae***Genus: Gelastocoris**oculatus* (Fabricius) -CDEF- [JHS]**Family: Tingidae***Genus: Corythucha**species 1* -C- [DCC]*species 2* -ABC- [DCC]**Family: Miridae***Genus: Capsus**ater* (Linnaeus) -C- [JHS]*Genus: Leptopterna**dolabrata* (Linnaeus) -BC- [JHS]*Genus: Lopidea**media* (Say) -ABC- [JHS]*Genus: Prepops**insitivus* (Say) -C- [JHS]**Family: Anthocoridae**

*Genus: Anthocoris**dimorphicus* Anderson & Kelton -F- [LAK]*musculus* (Say) -F- [LAK]*Genus: Orius**tristicolor* (White) -F- [LAK]**Family: Nabidae***Genus: Nabicula**subcoleoprata* Kirby -AC- [JHS]*Genus: Nabis**spp.* -C- [JHS]**Family: Phymatidae***Genus: Phymata**americana* Melin -ABC- [JHS]**Family: Reduviidae***Genus: Emesaya**brevipennis* (Say) -B- [JHS]*Genus: Reduvius**personatus* (Linnaeus) -B- [JHS]*Genus: Sinea**diadema* (Fabricius) -C- [JHS]*Genus: Zelus**luridus* Stål -BC- [JHS]**Family: Aradidae***Genus: Aneurus**inconstans* Uhler -A- [JHS]**Family: Lygaeidae***Genus: Kleidocerys**resedae* (Panzer) -B- [JHS]*Genus: Lygaeus**kalmii angustomarginatus* Parshley SMALL MILKWEED BUG -CD- [GS]*Genus: Ligyrocoris**diffusus* (Uhler) -C- [GS]*Genus: Oedancala*

dorsalis (Say) -ABC- [GS]

Genus: Phlegyas

abbreviatus (Uhler) -ABC- [GS]

Genus: Pseudocnemodus

canadensis (Provancher) -B- [GS, KHS]

Genus: Zeridoneus

costalis (Banks) -B- [JHS]

Family: Alydidae

Genus: Megalotomus

quinespinosus (Say) -AC- [JHS]

Genus: Protenor

belfragei Haglund -ABC- [JHS]

Family: Coreidae

Genus: Acanthocephala

terminalis (Dallas) -CF- [JHS]

Genus: Leptoglossus

occidentalis Heidemann -BC- [JHS]

Genus: Merochoris

typhaeus (Fabricius) -C- [DCC]

Family: Rhopalidae

Genus: Arhyssus

spp. -C- [GS]

Genus: Boisea

trivittata (Say) BOXELDER BUG -E- [JHS]

Family: Acanthosomatidae

Genus: Elasmucha

lateralis (Say) -B- [JHS]

Family: Pentatomidae

Genus: Acrosternum

hilare (Say) -C- [JHS]

Genus: Apateticus

spp. -AC- [JHS]

Genus: Banasa

calva (Say) -BC- [JHS]
dimidiata (Say) -B- [JHS]

Genus: Coenus

delius (Say) -AC- [JHS]

Genus: Cosmopepla

lintneriana Kirkaldy -ABC- [JHS]

Genus: Euschistus

spp. -ABC- [JHS]

Genus: Mormidea

lugens (Fabricius) -ABCD- [JHS]

Genus: Picromerus

bidens (Linnaeus) -C- [JHS]

Genus: Podisus

spp. -AB- [JHS]

Genus: Thyanta

custator (Fabricius) -C- [JHS]

Family: Thyreocoridae*Genus: Corimelaena*

spp. -BC- [DCC]

ORDER: AUCHENORRHYNCHA**Family: Cicadidae***Genus: Tibicen*

auletes (Germar) SCISSOR GRINDER -A(Ob)BCE(Ob)- [KAH, JHS, GV]
canicularis (Harris) DOG-DAY CICADA -ABC- [JHS, GV]
lyricen (De Geer) -ABC- [JHS]

Genus: Magicicada

septendecim (Linnaeus) -C(P)- [KAH, AHR, JHS]

Family: Cercopidae*Genus: Aphrophora*

alni (Fallén) EUROPEAN ALDER SPITTLEBUG -B- [JHS]
cribrata (Walker) PINE SPITTLEBUG -ABC- [JHS]
quadrinotata Say FOUR-SPOTTED SPITTLEBUG -AB- [JHS]
parallella (Say) SPRUCE SPITTLEBUG -F- [KAH]
saratogensis (Fitch) SARATOGA SPITTLEBUG -ABC- [JHS]

Genus: Clastoptera

- arborina* Ball RED CEDAR SPITTLEBUG -F- [KAH]
hyperici Gibson in McAtee -C- [KAH, JHS]
obtusa (Say) ALDER SPITTLEBUG -B- [JHS]
proteus Fitch DOGWOOD SPITTLEBUG -ABCD- [JHS]
testacea Fitch -ABC- [AHR, JHS]

Genus: Lepyrionia

- gibbosa* Ball HILL PRAIRIE SPITTLEBUG -ABC- [KAH, JHS]
quadrangularis (Say) DIAMOND-BACKED SPITTLEBUG -B- [JHS]

Genus: Neophilaenus

- lineatus* (Linnaeus) LINED SPITTLEBUG -ABCD- [JHS]

Genus: Philaenarcys

- killia* Hamilton SAND PRAIRIE SPITTLEBUG -ABCEF- [KAH, JHS]

Genus: Philaenus

- spumarius* (Linnaeus) MEADOW SPITTLEBUG -ABCD- [JHS]

Genus: Prosapia

- ignipectus* (Fitch) BLACK SPITTLEBUG -ABC- [JHS]

Family: Membracidae*Genus: Acutalis*

- semicrema* (Say) -F- [KAH, JHS]

Genus: Archasia

- belfragei* Stål -BC- [KAH, JHS]

Genus: Atymna

- inornata* (Say) -C- [KAH]
querci (Fitch) -BC- [KAH, JHS]

Genus: Campylenchia

- latipes* (Say) -F- [JHS]

Genus: Cyrtolobus

- spp.* -BC- [JHS]

Genus: Enchenopa

- binotata* (Say) -ABC- [JHS]

Genus: Entylia

- carinata* (Forster) -AB- [JHS]

Genus: Glossonotus

- acuminatus* (Fabricius) -C- [KAH]
univittatus (Harris) -C- [KAH, JHS]

Genus: Ophiderma

flava Goding -ABC- [JHS]
pubescens (Emmons) -ABC- [JHS]
salamandra Fairmaire -B- [JHS]

Genus: Smilia

camelus (Fabricius) -BCF- [JHS]

Genus: Stictocephala

dicerus (Say) -B- [JHS]
lutea (Walker) -C- [JHS]
taurina (Fitch) -B- [KAH]

Genus: Telamona

gibbera? Ball -A- [KAH]
spretta Goding -BC- [KAH]
monticola (Fabricius) -BC- [KAH, JHS]

Family: Cicadellidae*Genus: Aceratagallia*

humilis (Oman) CANADIAN CLOVER LEAFHOPPER -E- [KAH]

Genus: Agalliopsis

ancistra Oman -BCD- [KAH]

Genus: Agalliota

quadripunctata (Provancher) FOUR-SPOTTED CLOVER LEAFHOPPER -AB- [KAH]

Genus: Anoscopus

serratulae (Fabricius) -B- [KAH]

Genus: Aphrodes

spp. -CF- [JHS]

Genus: Athysanella

tenebrans Gillette & Baker -E- [KAH]

Genus: Athysanus

argentarius Metcalf -BCE- [KAH]

Genus: Balcanocerus

crataegi (Van Duzee) -C- [KAH]

Genus: Balclutha

manitou (Gillette & Baker) -AB- [KAH]

Genus: Bandara

spp. -ABC- [KAH]

*Genus: Cantura**jucunda* (Uhler) -ABC- [KAH]*Genus: Chlorotettix**galbanatus* (Van Duzee) -E- [KAH]*spatulata* Osborn & Ball -ABCE- [KAH]*Genus: Colladonus**clitellarius* (Say) SADDLEBACK LEAFHOPPER -B- [KAH, JHS]*olus* Nielson -B- [KAH]*Genus: Diplocolenus**configuratus* (Uhler) -ABE- [KAH]*Genus: Doratura**stylata* (Boheman) -E- [KAH]*Genus: Draeculacephala**antica* (Walker) -BC- [KAH]*robinsoni* Hamilton -B- [KAH]*Genus: Empoasca**spp.* -ABE- [KAH]*Genus: Endria**inimicus* (Say) PAINTED LEAFHOPPER -AE- [KAH]*Genus: Errastunus**ocellaris* (Fallén) -CE- [KAH]*Genus: Erythroneura**tricincta* Fitch THREE-BANDED LEAFHOPPER -B- [KAH]*vulnerata* Fitch -AB- [KAH]*Genus: Eutettix**borealis* Hepner -A- [KAH, JHS]*Genus: Extrusanus**extrusus* (Van Duzee) -AC- [KAH]*Genus: Fitchana**vitellina* (Fitch) -A- [KAH]*Genus: Flexamia**delongi* Ross & Cooley -E- [KAH]*prairiana* DeLong -E- [KAH]*reflexa* (Osborn & Ball) -E- [KAH]*Genus: Forcipata**loca* DeLong & Caldwell -E- [KAH]

Genus: Graphocephala

hieroglyphica (Say) -ABCE- [KAH]
picta (Walker) -B- [KAH]
teliformis (Walker) -AB- [KAH]

Genus: Gyponana

acia DeLong -A- [KAH]
gladia DeLong -A- [KAH, JHS]
mali DeLong -C- [KAH]
octolineata (Say) -CE- [KAH]
praelonga DeLong -AB- [KAH, JHS]
salsa DeLong -AB- [KAH]
tubera DeLong -B- [KAH]

Genus: Hecalus

spp. -C- [KAH, JHS]

Genus: Idiocerus

suturalis Fitch -B- [KAH]

Genus: Jikradia

olitoria (Say) -ABCE- [KAH]

Genus: Latalus

personatus Beirne -AE- [KAH]
sayii (Fitch) -AE- [KAH]

Genus: Limotettix

osborni (Ball) -A- [KAH]
urnura Hamilton -E- [KAH]

Genus: Macropsis

basalis (Van Duzee) -E- [KAH]
ferrugineoides (Van Duzee) -E- [KAH]
sauroni Hamilton -E- [KAH]

Genus: Menosoma

cincta (Osborn & Ball) -ABE- [KAH]

Genus: Mesamia

nigradorsum (Ball) -A- [KAH]

Genus: Oncopsis

citra Hamilton -B- [KAH]
sobria (Walker) -A- [KAH]

Genus: Orientus

ishidae (Matsumura) -AE- [KAH]

Genus: Osbornellus

auronitens (Provancher) -B- [KAH]

consors (Uhler) -AB- [KAH]

limosus DeLong -B- [KAH]

Genus: Paraphlepsius

fulvidorsum (Fitch) -C- [KAH]

irroratus (Say) IRRORATE LEAFHOPPER -BE- [KAH]

lobatus (Osborn) -E- [KAH]

umbrosus (Sanders & DeLong) -ABE- [KAH]

Genus: Pendarus

punctiscriptus (Van Duzee) -BE- [KAH]

Genus: Polyamia

apicata (Osborn) -E- [KAH]

Genus: Ponana

quadralaba DeLong -B- [KAH]

rubida DeLong -A- [KAH]

Genus: Prairiana

angustens DeLong -B- [KAH, JHS]

kansana (Ball) -B- [KAH, JHS]

Genus: Prescottia

lobata (Van Duzee) -C- [KAH]

Genus: Psammotettix

lividellus complex -E- [KAH]

Genus: Scaphoideus

incisus Osborn -C- [KAH]

intricatus Uhler -B- [KAH]

lacyi Barnett -AB- [KAH]

major Osborn -AB- [KAH]

veterator DeLong & Beery -AB- [KAH]

Genus: Scaphytopius

acutus (Say) -AB- [KAH]

angustatus (Osborn) -B- [KAH]

Genus: Texananus

arctostaphylae (Ball) -E- [KAH]

decorus (Osborn & Ball) -A- [KAH, JHS]

longipennis Crowder -AC- [KAH]

Genus: Tylozygus

bifidus (Say) -BCE- [KAH]

Genus: Xestocephalus

spp. -E- [KAH]

Family: Delphacidae

Genus: Delphacodes

parvula (Ball) -B- [KAH]

Genus: Liburniella

ornata (Stål) -B- [KAH]

Genus: Pentagramma

variegata Penner -B- [KAH]

Family: Cixiidae

Genus: Oliarus

spp. -B- [KAH]

Family: Achilidae

Genus: Catonia

lunata Metcalf -AB- [KAH]

Genus: Epiptera

variegata (Van Duzee) -B- [KAH]

Genus: Synecdoche

impunctata (Fitch) -AB- [KAH]

Family: Derbidae

Genus: Cedusa

species 1 -A- [KAH]

species 2 -A- [KAH]

Genus: Otiocerus

wolfii Kirby -A- [KAH]

Family: Dictyopharidae

Genus: Scolops

angustatus Uhler -F- [KAH]

sulcipes Say -A- [KAH, JHS]

Family: Issidae

Genus: Acanalonia

bivittata (Say) -ABCDE- [JHS]

conica (Say) -F- [JHS]

*Genus: Bruchomorpha**dorsata* Fitch -E- [KAH]*oculata* Newman -E- [KAH]*Genus: Fitchiella**robertsoni* (Fitch) -E- [KAH]**Family: Flatidae***Genus: Metcalfa**pruinosa* (Say) -ABC- [KAH]**ORDER: STERNORRHYNCHA****Family: Psyllidae****Family: Aphididae***Genus: Aphis**hamamelidis* Pepper WITCH HAZEL CONE APHID -C- [GV]*Genus: Colopha**ulmicola* (Fitch) COCKSCOMB ELM APHID -C- [GV]*Genus: Mordvilkoja**vagabunda* (Walsh) POPLAR VAGABOND APHID -F- [GV]**Family: Acleridae***Genus: Aclerda**spp.* -F- [JHS]**Family: Pseudococcidae***Genus: Trionymus**winnemucae* McKenzie -C- [KB]**ORDER: MEGALOPTERA****Family: Corydalidae***Genus: Chauliodes**spp.* -BC- [JHS]**Family: Sialidae***Genus: Sialis**spp.* -B- [JHS]**ORDER: NEUROPTERA**

Family: Ascalaphidae*Genus: Ululodes**quadrinaculata* (Say) -C- [JHS]**Family: Chrysopidae***Genus: Chrysopa**spp.* -ABC- [JHS]**Family: Coniopterygidae****Family: Hemerobiidae****Family: Mantispidae***Genus: Climaciella**brunnea* (Say) -D(P), F(P)- [JHS]**Family: Myrmeliontidae***Genus: Brachynemurus**nebulosum* (Olivier) -ABCE- [JHS]*signatum* (Hagen) -BCE- [AS, JHS, GV]*Genus: Dendroleon**obsoletum* (Say) -C- [JHS, GV]*Genus: Myrmeleon**immaculatus* De Geer -ABC- [JHS]**ORDER: COLEOPTERA****Family: Cupedidae***Genus: Tenomerga**concolor* (Westwood) -A- [JHS]**Family: Carabidae***Genus: Agonum**basale* LeConte -B- [AA]*Genus: Amphasia**sericea* (Harris) -B- [AA]*Genus: Bembidion**inaequale* Say -B- [AA]

*Genus: Blemus**discus* (Fabricius) -C- [AA]*Genus: Calathus**gregarius* (Say) -ABC- [AA]*Genus: Calleida**punctata* LeConte -F- [JHS]*Genus: Calosoma**frigidum* Kirby -C- [AA, JHS]*scrutator* (Fabricius) -C- [AA, JHS]*Genus: Carabus**maeander* Fischer von Waldheim -C- [AA, JHS]*nemoralis* Müller -C- [AA, GV]*Genus: Chlaenius**pennsylvanicus* Say -AB- [AA]*tricolor* Dejean -BC- [AA]*Genus: Cicindela**duodecimguttata* Dejean -C- [IC, JHS]*formosa generosa* Dejean -BCE- [JHS]*lepida* DeJean -C- [fide NHIC]*longilabris longilabris* Say -C- [JHS]*patruela* Dejean -C- [JHS]*punctulata punctulata* Olivier -ABC- [JHS]*repanda repanda* Dejean -BE- [JHS]*scutellaris lecontei* Haldeman -BCEF- [JHS]*sexguttata* Fabricius -ABC- [JHS]*Genus: Clivina**impressifrons* LeConte -ABC- [AA]*Genus: Cymindis**limbatus* Dejean -C- [AA]*pilosus* Say -AC- [AA]*Genus: Dicaelus**purpuratus* Bonelli -C- [JHS, GV]*Genus: Diplocheila**major* (LeConte) -C- [AA]*Genus: Dyschirius**sphaericollis* (Say) -BC- [AA]*Genus: Harpalus**affinis* (Schrank) -C- [AA]

compar LeConte -BC- [AA]
caliginosus (Fabricius) -C- [AA]
eraticus Say -C- [AA, JHS]
fulvilabris Mannerheim -B- [AA]
indianus Csiki -D- [AA, JHS]
pennsylvanicus (De Geer) -BCD- [AA]
puncticeps (Stephens) -C- [AA]

Genus: Lebia

atriventris Say -BC- [AA, JHS]
cyanipennis Dejean -B- [AA, JHS]
fuscata Dejean -B- [AA, JHS]
tricolor Say -AB- [AA, JHS]
viridis Say -BC- [AA, JHS]

Genus: Loricera

pilicornis (Fabricius) -BC- [AA]

Genus: Notiobia

sayi (Blatchley) -BC- [AA]

Genus: Omophron

americanum Dejean -BC- [AA, JHS]

Genus: Platynus

hypolithos (Say) -B- [AA, JHS]

Genus: Poecilus

lucublandus (Say) -BC- [AA]

Genus: Pterostichus

melanarius (Illiger) -BC- [AA, JHS]
permundus (Say) -C- [AA]

Genus: Scarites

subterraneus Fabricius -C- [AA, GV]

Genus: Selenophorus

opalinus (LeConte) -BC- [AA]

Genus: Sphaeroderus

stenostomus lecontei Dejean -BC- [AA]

Genus: Stenolophus

comma (Fabricius) -AC- [AA]
lineola (Fabricius) -C- [AA, JHS]

Genus: Trichotichmus

dichrous (Dejean) -B- [JHS]

Family: Haliplidae*Genus: Peltodytes**edentulus?* (LeConte) -C- [JHS]**Family: Dytiscidae***Genus: Colymbetes**sculptilis* Harris -C- [JHS]*Genus: Dytiscus**fasciventris* Say -BC- [JHS]**Family: Gyrinidae***Genus: Dineutus**spp.* -BC- [JHS]*Genus: Gyrinus**spp.* -B- [JHS]**Family: Silphidae***Genus: Necrodes**surinamensis* (Fabricius) -C- [JHS]*Genus: Necrophila**americana* (Linnaeus) -ABC- [JHS]*Genus: Nicrophorus**americanus* Olivier -F- [RSA, SBP]*marginatus* Fabricius -B- [JHS]*orbicollis* Say -ABC- [JHS]*pustulatus* Herschel -BC- [JHS]*sayi* Laporte -B- [JHS]*tomentosus* Weber -ABC- [JHS]*Genus: Oiceoptoma**inaequale* (Fabricius) -ABC- [JHS]*noveboracense* (Forster) -BC- [JHS]*Genus: Thanatophilus**lapponicus* (Herbst) -F- [RSA, SBP]**Family: Staphylinidae***Genus: Creophilus**maxillosus* (Linnaeus) -BC- [JHS]*Genus: Ocypus*

ater? (Gravenhorst) -F- [JHS]

Genus: Ontholestes

cingulatus? (Gravenhorst) -B- [JHS]

Genus: Staphylinus

fossator Gravenhorst -ABC- [JHS]

maculosus Gravenhorst -BC- [JHS]

Genus: Tachinus

fimbriatus Gravenhorst -C- [JHS]

Genus: Xenodusa

cava (LeConte) -CF- [JHS]

Family: Hydrophilidae

Genus: Berosus

spp. -BC- [JHS]

Genus: Enochrus

spp. -C- [JHS]

Genus: Hydrochara

obtusatus (Say) -BC- [JHS]

Genus: Hydrophilus

triangularis Say -BC- [JHS]

Genus: Sphaeridium

scarabaeoides (Linnaeus) -C- [JHS]

Genus: Tropisternus

lateralis (Fabricius) -B- [JHS]

Family: Histeridae

Family: Lucanidae

Genus: Ceruchus

piceus (Weber) -BC- [JHS]

Genus: Platycerus

virescens (Fabricius) -A- [JHS]

Genus: Lucanus

capreolus (Linnaeus) -CD- [JHS, GV]

placidus (Say) -ABC- [JHS, GV]

Family: Scarabaeidae

Genus: Aphodius

fimetarius? (Linnaeus) -C- [JHS]
prodromus (Brahm) or *femoralis* Say -A- [JHS]

Genus: Aphonus

tridentatus (Say) -C- [JHS]

Genus: Copris

minutus (Drury) -BCD- [JHS, GV]
tullius (Olivier) -C- [GV]

Genus: Cotalpa

lanigera (Linnaeus) -B(Ob)C- [JHS]

Genus: Dichelonyx

spp. -ABC- [JHS]

Genus: Diplotaxis

sordida (Say) -ABC- [JHS]

Genus: Euphoria

inda (Linnaeus) -C- [GV]
fulgida (Fabricius) -ABCD- [JHS, GV]

Genus: Geotrupes

balyi Jekel -C- [GV]
hornii? Blanchard -CD- [JHS]
splendidus (Fabricius) -CD- [JHS, GV]

Genus: Hoplia

trifasciata Say -B- [JHS]

Genus: Macroductylus

subspinosus (Fabricius) -C- [GV]

Genus: Onthophagus

hecate (Panzer) -BC- [JHS]
orpheus (Panzer) -BC- [JHS]

Genus: Osmoderma

eremicola (Knoch) -D- [JHS, GV]
scabra (Beauvois) -CDE- [JHS, GV]

Genus: Pelidnota

punctata (Linnaeus) -CD- [JHS, GV]

Genus: Phyllophaga

crenulata (Frölich) -C- [JHS]
gracilis (Burmeister) -BCE- [JHS]

*Genus: Serica**spp.* (Illiger) -ABCD- [GV]*Genus: Trichiotinus**spp.* -ABC- [JHS]*Genus: Trox**unistriatus* Beauvois -C- [GV]*Genus: Xyloryctes**jamaicensis* (Drury) -C- [JHS]**Family: Buprestidae***Genus: Acmaeodera**pulchella* (Herbst) -ABCE- [DCC]*variegata* LeConte -ABCE- [JHS]*Genus: Agrilus**bilineatus* (Weber) -BC- [DCC]*crataegi?* Frost -B- [DCC]*cyanescens* (Ratzeburg) -ABC- [DCC]*lacustris* LeConte -BC- [DCC]*politus* complex -B- [DCC]*Genus: Brachys**aerosus* Melsheimer -B- [DCC]*ovatus* (Weber) -ABC- [DCC]*Genus: Buprestis**striata* Fabricius -C- [JHS]*Genus: Chalcophora**liberta* (Germar) -F- [DEB]*Genus: Chrysobothris**dentipes* (Germar) -BC- [DCC]*femorata* (Olivier) -ABCD- [DCC]*rugosiceps* Melsheimer -AC- [DCC]*Genus: Descarpentriesina**cyanipes* (Say) -BE- [DCC]*Genus: Dicerca**divaricata* (Say) -C- [DCC]*lurida* (Fabricius) -C- [DCC]*Genus: Spectralia**gracilipes* (Melsheimer) -A- [DCC]

*Genus: Taphrocerus**gracilis* (Say) -F- [DEB]**Family: Heteroceridae****Family: Elateridae***Genus: Aeolus**mellillus* (Say) -F- [JHS]*Genus: Alaus**oculatus* (Linnaeus) -CF- [JHS, GV]*Genus: Ampedus**areolatus* (Say) -BC- [JHS]*luteus* (Say) -A- [JHS]*nigricollis* (Herbst) -AB- [JHS]*semicinctus* (Randall) -B- [JHS]*Genus: Ctenicera**hieroglyphicus* (Say) -AB- [JHS]*pyrrhos?* (Herbst) -B- [JHS]*Genus: Elater**abruptus* Say -C- [JHS]*Genus: Lacon**discoidea* (Weber) -C- [JHS]**Family: Throscidae****Family: Lycidae***Genus: Calopteron**reticulatum* (Fabricius) -ABC- [JHS]*terminale* (Say) -ABCE- [JHS, GV]*Genus: Eros**humeralis* (Fabricius) -AC- [JHS]*Genus: Plateros**spp.* -C- [JHS]**Family: Phengodidae***Genus: Phengodes**plumosa* (Olivier) -ABC- [JHS]**Family: Lampyridae**

*Genus: Ellychnia**spp.* -ABC- [JHS]*Genus: Lucidota**atra* (Olivier) -ABC- [JHS]*Genus: Photuris**pennsylvanica* (De Geer) -BC- [JHS]*Genus: Pyraconema**spp.* -B- [JHS]*Genus: Pyropyga**spp.* -ABC- [JHS]**Family: Cantharidae***Genus: Cantharis**rotundicollis* Say -A- [JHS]*Genus: Chauliognathus**pennsylvanicus* (De Geer) -D- [JHS]*Genus: Podabrus**spp.* -AB- [JHS]**Family: Dermestidae***Genus: Attagenus**unicolor unicolor* (Brahm) -C- [JHS]*Genus: Dermestes**lardarius* Linnaeus -C- [JHS]**Family: Cleridae***Genus: Enoclerus**muttkowskii* (Wolcott) or *ichneumoneus* (Fabricius) -C- [JHS]*nigripes rufiventris* (Spinola) -C- [JHS]*rosmarus* (Say) -C- [JHS]*Genus: Necrobia**violacea* (Linnaeus) -C- [JHS]*Genus: Phyllobaenus**humeralis* (Say) -B- [JHS]*pallipennis* (Say) -BC- [JHS]*Genus: Thanasimus**dubius* (Fabricius) -C- [JHS]

- nutalli* (Kirby) -ABC- [JHS]
Genus: Trichodes
Family: Melyridae
- aeneus* (Linnaeus) -C- [JHS]
Genus: Malachius
Family: Nitidulidae
- ampla* Erichson -B- [JHS]
Genus: Cryptarcha
- quadrisignatus* (Say) -ABC- [JHS]
sanguinolentus (Olivier) -C- [JHS]
Genus: Glischrochilus
- grossa* (Fabricius) -AC- [JHS]
Genus: Phenolia
Family: Cucujidae
- clavipes* Fabricius -C- [JHS, GV]
Genus: Cucujus
Family: Erotylidae
- sanguinipennis* (Say) -C- [JHS]
Genus: Tritoma
Family: Coccinellidae
- bipunctata* (Linnaeus) -C- [JHS]
Genus: Adalia
- labiculata* (Say) -BC- [JHS]
Genus: Anatis
- bitriangularis* (Say) -C- [JHS]
Genus: Anisosticta
- dentipes* (Fabricius) -C- [JHS]
Genus: Brachiacantha
- stigma* (Say) -ABC- [JHS]
Genus: Chilocorus
- septempunctata* Linnaeus -ABCE- [JHS]
transversoguttata richardsoni Brown -C- [JHS]
Genus: Coccinella

Genus: Coleomegilla

maculata lengi Timberlake -BC- [JHS]

Genus: Cycloneda

munda (Say) -BC- [JHS]

Genus: Epilachna

varivestis Mulsant -F- [JHS]

Genus: Harmonia

axyridis (Pallas) -ABCF- [JHS]

Genus: Hippodamia

convergens Guérin-Méneville -C- [JHS]

glacialis glacialis (Fabricius) -C- [JHS]

parenthesis (Say) -B- [JHS, GV]

tredecimpunctata tibialis (Say) -C- [JHS]

Genus: Hyperaspis

binotata group -C- [JHS]

proba proba (Say) -C- [JHS]

Genus: Myzia

pullata (Say) -C- [JHS]

Genus: Psyllobora

vigintimaculata (Say) -BC- [JHS, GV]

Family: Endomychidae

Genus: Lycoperdina

ferruginea LeConte -C- [JHS]

Genus: Mycetina

perpulchra (Newman) -BC- [JHS]

Family: Mycetophagidae

Genus: Mycetophagus

punctatus Say -BC- [JHS]

Family: Tetratomidae

Genus: Penthe

obliquata (Fabricius) -C- [GV]

Family: Melandryidae

Genus: Dircaea

liturata (LeConte) -B- [JHS]

Family: Mordellidae*Genus: Glipa**octopunctata* (Fabricius) -BC- [JHS]*Genus: Mordella**spp.* -AB- [JHS]*Genus: Tomoxia**serval* (Say) -AB- [JHS]**Family: Tenebrionidae***Genus: Alobates**pennsylvanicus* (De Geer) -C- [JHS, GV]*Genus: Androchirus**erythropus* (Kirby) -C- [JHS]*Genus: Arthromacra**aenea* (Say) -AB- [JHS]*Genus: Diaperis**maculata* Olivier -C- [JHS, GV]*Genus: Haplandrus**fulvipes* (Herbst) -BC- [JHS]*Genus: Hymenorus**niger* (Melsheimer) -AB- [JHS]*Genus: Isomira**sericea* (Say) -AB- [JHS]*Genus: Meracantha**contracta* (Beauvois) -CD- [JHS, GV]*Genus: Neatus**tenebrioides* (Beauvois) -C- [JHS]*Genus: Scotobates**calcaratus* (Fabricius) -C- [JHS, GV]*Genus: Strongylium**tenuicolle* (Say) -C- [JHS]*Genus: Tenebrio**molitor* Linnaeus -C- [GV]*obscurus* Fabricius -C- [GV]

*Genus: Xylopinus**saperdioides* (Olivier) -C- [JHS, GV]**Family: Cephaloidae***Genus: Cephaloon**lepturoides* Newman -C- [JHS]**Family: Meloidae***Genus: Epicauta**murina* (LeConte) -A- [JHS]*pruinosa?* LeConte -F- [JHS]**Family: Pyrochroidae***Genus: Dendroides**canadensis* Latreille -ABC- [JHS]**Family: Pedilidae***Genus: Pedilus**lugubris* (Say) -AB- [JHS]**Family: Cerambycidae***Genus: Acanthosinus**pusillus* Kirby -C- [DBM]*Genus: Amniscus**spp.* -B- [JHS]*Genus: Analeptura**lineola* (Say) -ABC- [DBM, JHS]*Genus: Anelaphus**parallelus* (Newman) -C- [DBM, JHS]*villosus* (Fabricius) -C- [DBM, JHS]*Genus: Asemum**striatum* (Linnaeus) -C- [DBM, JHS]*Genus: Astylopsis**collaris* (Haldeman) -C- [DBM]*sexguttata* (Say) -C- [DBM, JHS]*Genus: Batyle**suturalis suturalis* (Say) -ABC- [DBM, JHS]*Genus: Brachyleptura*

champlaini Casey -A- [DBM]

Genus: Centrodera

decolorata (Harris) -C- [DBM, JHS]

Genus: Clytus

ruricola (Olivier) -B- [DBM, JHS]

Genus: Cyrtophorus

verrucosus (Olivier) -AC- [DBM, JHS]

Genus: Eburia

quadrigeminata (Say) -B- [DBM, JHS]

Genus: Ecyrus

dasycerus (Say) -C- [DBM, JHS]

Genus: Enaphalodes

rufulus (Haldeman) -AC- [DBM, JHS]

Genus: Euderces

picipes picipes (Fabricius) -ABC- [DBM, JHS]

Genus: Gaurotes

cyanipennis (Say) -C- [DBM, JHS]

Genus: Goes

debilis LeConte -C- [DBM]

Genus: Hesperophanes

pubescens (Haldeman) -D- [DBM]

Genus: Leptura

emarginata Fabricius -C- [DBM, JHS]

plebeja Randall -C- [DBM]

Genus: Megacyllene

robiniae (Forster) -BD- [DBM, GV]

Genus: Monochamus

carolinensis (Olivier) -CE- [DBM, JHS]

notatus (Drury) -BC- [DBM, JHS]

scutellatus (Say) -C- [JHS]

titillator (Fabricius) -C- [JHS]

Genus: Necydalis

mellita (Say) -A- [JHS]

Genus: Neoclytus

acuminatus acuminatus (Fabricius) -AC- [JHS]

Genus: Oberea

perspicillata Haldeman -AC- [DBM]
praelonga Casey -B- [DBM]
tripunctata (Swederus) -BC- [JHS]

Genus: Oplosia

nubila (LeConte) -AC- [JHS]

Genus: Orthosoma

brunneum (Forster) -ABC- [DBM, JHS, GV]

Genus: Phymatodes

amoenus (Say) -B- [DBM, JHS]
testaceus (Linnaeus) -BC- [JHS]

Genus: Pidonia

ruficollis? (Say) -BC- [DBM, JHS]

Genus: Prionus

pocularis Dalman -C- [DBM, JHS]

Genus: Psyrassa

unicolor (Randall) -C- [DBM, JHS]

Genus: Saperda

imitans Felt & Joutel -B- [DBM]

Genus: Sarosesthes

fulminans (Fabricius) -C- [DBM, JHS]

Genus: Stictoleptura

canadensis canadensis (Olivier) -BC- [DBM, JHS]

Genus: Strangalepta

abbreviata (Germar) -E- [DBM, JHS]

Genus: Strophiona

nitens (Forster) -AC- [DBM]

Genus: Tetraopes

quinquemaculatus Haldeman -ABC- [DBM, JHS]
tetraphthalmus (Forster) -C- [DBM, JHS]

Genus: Trachysida

mutabilis (Newman) -C- [DBM, JHS]

Genus: Typocerus

velutinus velutinus (Olivier) -ABC- [DBM, JHS]

Genus: Ungleptes

signatus (LeConte) -B- [DBM]

Genus: Urographis

fasciatus (De Geer) -AC- [DBM]

Genus: Xylotrechus

colonus (Fabricius) -AC- [DBM, JHS]

sagittatis sagittatis (Germar) -BC- [DBM, JHS]

Family: Chrysomelidae

Genus: Baliosus

nervosus (Panzer) -B- [JHS]

Genus: Bassareus

mammifer (Newman) -B- [JHS]

Genus: Calligrapha

scalaris (LeConte) -BC- [JHS]

Genus: Capraita

subvittata (Horn) -BC- [JHS]

Genus: Charidotella

purpurata (Boheman) -B- [JHS]

sexpunctata bicolor (Fabricius) -C- [JHS]

Genus: Chrysochus

auratus (Fabricius) -BC- [JHS]

Genus: Chrysolina

spp. -BC- [JHS]

Genus: Crioceris

asperagi (Linnaeus) -F- [JHS]

duodecimpunctata (Linnaeus) -BE- [JHS]

Genus: Cryptocephalus

mutabilis Melsheimer -A- [JHS]

notatus quadrimaculatus Say -B- [JHS]

Genus: Deloyala

spp. [JHS]

Genus: Diabrotica

undecimpunctata howardi Barber -CF- [JHS]

Genus: Disonycha

alternata (Illiger) -E- [JHS]

*Genus: Donacia**spp.* -BC- [JHS]*Genus: Kuschelina**thoracica* (Fabricius) -C- [JHS]*Genus: Labidomera**clivicollis* Kirby -B- [JHS]*Genus: Leptinotarsa**decemlineata* (Say) -CDF- [JHS]*Genus: Plagiodera**versicolora* (Laicharting) -C- [JHS]*Genus: Plagiometriona**clavata* (Fabricius) -BC- [JHS]*Genus: Sumitrosis**inaequalis* (Weber) -B- [JHS]*Genus: Trirhabda**canadensis* (Kirby) -ABCDF- [JHS]**Family: Anthribidae***Genus: Tropideres**fasciatus* (Olivier) -AB- [JHS]**Family: Ithyceridae***Genus: Ithycerus**noveboracensis* (Forster) -BD- [JHS]**Family: Attelabidae***Genus: Attelabus**bipustulatus* Fabricius -C- [JHS]*Genus: Homoelabus**analis* (Illiger) -C- [JHS]**Family: Rhynchitidae***Genus: Merhynchites**bicolor bicolor* (Fabricius) -C- [JHS]*Genus: Pterocolus**ovatus* (Fabricius) -C- [JHS]

Family: Brentidae*Genus: Arrhenodes**minutus* (Drury) -C- [JHS]**Family: Curculionidae***Genus: Curculio**spp.* ACORN WEEVIL -BC- [JHS]*spp.* -C- [JHS]*Genus: Hylobius**congener* Dalla Torre *et al.* or *pales* (Herbst) -C- [JHS]*Genus: Otiorhynchus**rugosostriatus* (Goeze) -B- [JHS]*sulcatus* (Fabricius) -B- [JHS]*Genus: Phyllobius**oblongus* (Linnaeus) -B- [JHS]*Genus: Polydrusus**impressifrons* (Gyllenhal) -ABC- [JHS]*sericeus* (Schaller) -B- [JHS]*Genus: Sitophilus**spp.* -F- [JHS]*Genus: Sphenophorus**parvulus?* Gyllenhal -BC- [JHS]*zeae* Walsh -B- [JHS]**Family: Scolytidae***Genus: Hylurgops**rugipennis pinifex* (Fitch) -F- [DEB]*Genus: Hylurgopinus**rufipes* (Eichhoff) -F- [DEB]*Genus: Ips**pini* (Say) -F- [DEB]*Genus: Orthotomicus**caelatus* (Eichhoff) -F- [DEB]*Genus: Pityogenes**hopkinsi* Swaine -F- [DEB]**ORDER: MECOPTERA**

Family: Meropeidae*Genus: Merope**tuber* Newman -BC- [JHS]**Family: Panorpidae***Genus: Panorpa**debilis* Westwood -B- [DCC]*hungerfordi* Byers -AB- [DCC]*nebulosa* Westwood -AB- [DCC]*submaculosa* Carpenter -AB- [DCC]*species 1* -B- [DCC]*species 2* -B- [DCC]*species 3* -B- [DCC]**Family: Bittacidae***Genus: Bittacus**stigmaterus* Say -F- [JHS]*strigosus* Hagen -BF- [JHS]**ORDER: LEPIDOPTERA****SUPERFAMILY: HEPIALOIDEA****Family: Hepialidae***Genus: Gazoryctra**hyperborea* Möschler -F- [JKM, KHS]**SUPERFAMILY: INCURVARIOIDEA****Family: Incurvariidae***Genus: Tegeticula**yuccasella* (Riley) -F- YUCCA MOTH [JDL, KHS]**SUPERFAMILY: TINEOIDEA****Family: Tineidae***Genus: Monopis**spilotella* Tengström -F- [JFL, KHS]*Genus: Nemapogon**acapnopennella* (Clemens) -F- [JKM, KHS]*multistriatella* (Dietz) -F- [JKM, KHS]

*Genus: Scardia**approximatella* Dietz -F- [KHS]*Genus: Xylesthia**pruniramiella* Clemens -F- [JFL, KHS]**Family: Acrolophidae***Genus: Acrolophus**plumifrontella* (Clemens) -F- [KHS]**SUPERFAMILY: GRACILLARIOIDEA****Family: Gracillariidae***Genus: Caloptilia*

alnivorella (Chambers) -F- [KHS]
burgessiella (Zeller) -F- [KHS]
comptoniella group -F- [JFL, KHS]
cornusella (Ely) -F- [JFL, KHS]
coroniella (Clemens) -F- [JFL, KHS]
hypericella (Braun) -F- [JFL, KHS]
invariabilis (Braun) -F- [JFL, KHS]
ostryaeella (Chambers) -F- [JFL, KHS]
packardella (Chambers) -F- [KHS]
paradoxa (Frey & Boll) -F- [JFL, KHS]
rhoifoliella (Chambers) -F- [JFL, KHS]
stigmatella (Fabricius) -F- [JFL, KHS]
strictella (Walker) -F- [KHS]
superbifrontella? (Clemens) -A- [KHS]
species 1 -F- [KHS]
species 2 -F- [KHS]

Genus: Cameraria

aceriella (Clemens) -F- [KHS]
guttifinitella (Clemens) -F- [KHS]
obstrictella (Clemens) -F- [KHS]

*Genus: Chrysaster**ostensackenella* (Fitch) -F- [JFL, KHS]*Genus: Gracillaria**syringella* (Fabricius) -F- [KHS]*Genus: Parectopa**pennsylvaniella* (Engel) -F- [JFL, KHS]*Genus: Parornix*

species 1 -F- [JFL, KHS]
species 2 -F- [JFL, KHS]

species 3 -F- [KHS]

species 4 -F- [KHS]

Genus: Phyllonorycter

ontario (Freeman) -F- [KHS]

species 1 -F- [KHS]

Family: Bucculatricidae

Genus: Bucculatrix

canadensisella Chambers -F- [KHS]

species 1 -F- [JFL, KHS]

species 2 -F- [KHS]

species 3 -F- [KHS]

species 4 -F- [KHS]

species 5 -F- [KHS]

species 6 -F- [KHS]

SUPERFAMILY: YPONOMEUTOIDEA

Family: Yponomeutidae

Genus: Argyresthia

alternatella Kearfott -F- [JFL, KHS]

annettella Busck -F- [KHS]

goedartella (Linnaeus) -F- [JFL, KHS]

oreasella Clemens -F- [JFL, KHS]

species 1 -F- [JFL, KHS]

species 2 -F- [KHS]

Genus: Atteva

punctella (Cramer) AILANTHUS WEBWORM MOTH -C- [KHS]

Genus: Plutella

xylostella (Linnaeus) -F- [JFL, KHS]

Genus: Swammerdamia

caesiella (Hübner) -F- [JFL, KHS]

pyrella (Villers) -F- [JFL, KHS]

Genus: Yponomeuta

cagnagella (Hübner) -F- [JFL, KHS]

multipunctella Clemens -B- [JHS]

Family: Ypsolophidae

Genus: Ypsolopha

canariella (Walsingham) -F- [JFL, KHS]

dentella (Fabricius) -F- [JFL, KHS]

dentiferella (Walsingham) -F- [JHS, KHS]

Family: Lyonetiidae*Genus: Lyonetia**saliciella* Busck -F- [JFL, KHS]*Genus: Paraleucoptera**albella* (Chambers) -F- [JFL, KHS]**SUPERFAMILY: GELECHIOIDEA****Family: Agonoxenidae***Genus: Glyphipteryx**linneella* (Clerck) -C- [KHS]**Family: Blastobasidae***Genus: Blastobasis**glandulella* (Riley) -F- [KHS]*species 1* -F- [KHS]*species 2* -F- [KHS]*species 3* -F- [KHS]*species 4* -F- [KHS]*species 5* -F- [KHS]*species 6* -F- [JFL, KHS]*Genus: Holcocera**immaculella* McDunnough -F- [JFL, KHS]*Genus: Hyapatopa**titanella?* McDunnough -F- [JFL, KHS]*Genus: Pigritia**spp.* -F- [JFL, KHS]**Family: Coleophoridae***Genus: Coleophora**atromarginata* Braun -F- [JFL, KHS]*deauratella* Lienig & Zeller -F- [KHS]*elaeagnisella* Kearfott -F- [JFL, KHS]*maritella* McDunnough -F- [JFL, KHS]*mayrella* (Hübner) -F- [JFL, KHS]*ramitella* Landry & Wright -AF- [KHS]*trifolii* (Curtis) -F- [JFL, KHS]*versurella?* Zeller -B- [JFL, KHS]**Family: Cosmopterigidae***Genus: Cosmopterix*

fernaldella Walsingham -F- [KHS]

gemmaferella Clemens -F- [KHS]

Genus: Euclementia

bassettella (Clemens) -F- [KHS]

Genus: Limnaecia

phragmitella Stainton -F- [JFL, KHS]

Genus: Periploca

laeta Hodges -A- [JFL, KHS]

Genus: Walshia

miscicolorella (Chambers) -F- [KHS]

Family: Depressariidae

Genus: Agonopterix

argillacea (Walsingham) -F- [JFL, KHS]

atrodorsella (Clemens) -F- [JKM, KHS]

clemensella (Chambers) -F- [KHS]

dimorphella Clarke -E- [JFL, KHS]

lythrella (Walsingham) -F- [KHS]

nigrinotella (Busck) -F- [JKM, KHS]

pulvipennella (Clemens) -F- [JDL, KHS]

robiniella (Packard) -F- [JKM, KHS]

Genus: Bibarrambla

allenella (Walsingham) -F- [KHS]

Genus: Depressaria

alienella Busck -F- [KHS]

pastinacella (Duponchel) -F- [KHS]

Genus: Machimia

tentoriferella Clemens -B- [JFL, KHS]

Genus: Nites

grotella (Robinson) -F- [JKM, KHS]

maculatella (Busck) -F- [JFL, KHS]

Genus: Psilocorsis

cryptolechiella (Chambers) -F- [KHS]

reflexella Clemens -F- [KHS]

Genus: Semioscopis

inornata Walsingham -F- [JFL, KHS]

megamicrella Dyar -F- [KHS]

packardella (Clemens) -F- [KHS]

Family: Ethmiidae*Genus: Ethmia*

- bipunctella* (Fabricius) -F- [JFL, KHS]
monticola (Walsingham) -F- [JFL, KHS]
zelleriella (Chambers) -F- [JFL, KHS]

Family: Gelechiidae*Genus: Anacamptis*

- agrimoniella* (Clemens) -F- [KHS]
innocuella (Zeller) -F- [JFL, KHS]
niveopulvella (Chambers) -F- [JFL, KHS]
species 1 -F- [KHS]
species 2 -F- [KHS]

Genus: Aristotelia

- species 1* -F- [KHS]
species 2 -F- [KHS]
species 3 -F- [KHS]

Genus: Aroga

- species 1* -F- [JFL, KHS]

Genus: Arogalea

- crisatifasciella* (Chambers) -F- [JFL, KHS]

Genus: Bryotropha

- spp.* -F- [JFL, KHS]

Genus: Chionodes

- bicostomaculella* (Chambers) -F- [KHS]
formosella (Murfeldt) -F- [KHS]
franclemonti Hodges -F- [KHS]
mediofuscella (Clemens) -F- [JFL, JKM, KHS]
obscurusella (Chambers) -F- [KHS]
pereyra Clarke -F- [KHS]
species 1 -F- [JFL, KHS]

Genus: Coleotechnites

- atruplictella* (Dietz) -F- [JFL, KHS]
quercivorella group (Chambers) -E- [JFL, KHS]
species 1 -F- [JFL, KHS]
species 2 -F- [JFL, KHS]

Genus: Deltophora

- glandiferella* (Zeller) -F- [JFL, KHS]
species 1 -F- [JFL, KHS]

Genus: Dichomeris

bilobella (Zeller) -F- [JFL, KHS]
condaliavorella (Busck) -F- [KHS]
flavocostella (Clemens) -C- [KHS]
glenni Clarke -F- [KHS]
juncidella (Clemens) -F- [JFL, KHS]
ochripalpella (Zeller) -F- [KHS]
serrativittella (Zeller) -F- [KHS]

Genus: Evippe

prunifoliella Chambers -F- [JFL, KHS]

Genus: Exoteleia

dodecella (Linnaeus) -F- [JFL, KHS]

Genus: Filatima

betulae Clarke -F- [KHS]
persicaeella (Murtfeldt) -F- [JKM, KHS]
species 2 -F- [KHS]

Genus: Filatima?

species 1 -F- [JFL, KHS]
species 3 -F- [KHS]

Genus: Gelechia

lynceella Zeller -F- [JFL, KHS]
species 1 -F- [KHS]

Genus: Gnorimoschema

banksiella Busck -F- [JFL, KHS]
gallaeasterella (Kellcott) -F- [KHS]
gallaesolidaginis (Riley) GOLDENROD GALL MOTH -F- [KHS]

Genus: Metzneria

lappella (Linnaeus) -F- [KHS]

Genus: Pseudochelaria

pennsylvanica Dietz -F- [JFL, KHS]

Genus: Pseudotelphusa

palliderosacella (Chambers) -F- [JFL, KHS]

Genus: Scrobipalpula?

spp. -F- [KHS]

Genus: Steriomita

andropogonis Braun -F- [JFL, KHS]

Genus: Teleiodes

proximella (Hübner) -F- [JFL, KHS]

*Genus: Telphusa**latifasciella* (Chambers) -F- [JFL, KHS]*longifasciella* (Chambers) -F- [KHS]*species 1* -F- [JFL, KHS]**Family: Momphidae***Genus: Mompha**brevivittella* (Clemens) -F- [KHS]*eloisella* (Clemens) -F- [JKM, KHS]**Family: Oecophoridae***Genus: Antaeotricha**leucillana* (Zeller) -B- [KHS]*schlaegeri* (Zeller) -C- [IC, JFL, KHS]*Genus: Callima**argenticinctella* Clemens -F- [JFL, KHS]*Genus: Eido**trimaculella* (Fitch) -F- [JFL, KHS]*Genus: Fabiola**shaleriella* (Chambers) -F- [JFL, KHS]*Genus: Gonioterma**mistrella* (Busck) -F- [JFL, KHS]*Genus: Menestomorpha**species 1* -F- [JFL, KHS]**Family: Symmocidae***Genus: Gerdana**caritella* Busck -F- [KHS]*Genus: Oegoconia**quadripuncta* (Haworth) -F- [KHS]**SUPERFAMILY: COSSOIDEA****Family: Cossidae***Genus: Prionoxystus**macmurtrei* (Guérin-Méneville) LITTLE CARPENTER WORM MOTH -C- [DFS, KHS]*robiniae* (Peck) CARPENTERWORM MOTH -B- [JHS, KHS]**SUPERFAMILY: TORTRICOIDEA**

Family: Tortricidae

Subfamily: Olethreutinae

Genus: *Ancylis*

apicana (Walker) -F- [KHS, MS]
comptana Frölich -F- [KHS]
diminutana (Haworth.) -F- [JKM, KHS]
divisana (Walker) -F- [KHS]
fuscociliana (Clemens) -A- [KHS]
metamelana (Walker) -F- [KHS]
nubeculana (Clemens) -F- [KHS]
platanana (Clemens) -F- [KHS]
semiovana (Zeller) -A- [KHS, PTD]
spiraeifoliana (Clemens) -F- [KHS]

Genus: *Apotomis*

capreana (Hübner) -F- [KHS]
funerea (Meyrick) -F- [KHS]
removana (Kearfott) -E- [JKM, KHS]

Genus: *Bactra*

verutana Zeller -F- [KHS]

Genus: *Barbara*

colfaxiana (Kearfott) -F- [KHS]

Genus: *Catastega*

timidella Clemens -F- [KHS]

Genus: *Corticivora*

clarki Clarke -F- [KHS]

Genus: *Cydia*

albimaculana (Fernald) -F- [KHS]
latiferreanus (Walsingham) -F- [JKM, KHS]
pomonella (Linnaeus) CODLING MOTH

Genus: *Ecdytolopha*

desotana (Heinrich) -E- [JDL, KHS]
insiticihana Zeller LOCUST TWIG BORER MOTH -F- [JDL, KHS]
punctidiscana (Dyar) -F- [KHS]

Genus: *Endopiza*

aruncana (Kearfott) -F- [KHS, MS]
palliolana (McDunnough) -F- [KHS, MS]
viteana Clemens GRAPE BERRY MOTH -F- [KHS]

Genus: *Endothenia*

affiliana McDunnough -F- [KHS, MS]

hebesana (Walker) -F- [KHS]
quadrimaculana (Haworth) -F- [KHS]

Genus: Epiblema

otiosana (Clemens) BIDEN'S BORER MOTH -F- [KHS]
scudderiana (Clemens) -F- [JKM, KHS]
strenuana complex? (Walker) -F- [KHS]

Genus: Epinotia

bigemina Heinrich -F- [KHS]
crenana (Hübner) -F- [KHS]
criddleana (Kearfott) -F- [KHS, MS]
lindana (Fernald) -C- [KHS, PTD]
medioviridana (Kearfott) -C- [KHS]
nisella (Clerck) -F- [KHS]
solandriana (Linnaeus) -F- [JKM, KHS]
solicitana (Walker) -F- [KHS, MS]
transmissana (Walker) -F- [JKM, KHS]
trigonella (Linnaeus) -F- [JKM, KHS]
vertumnana (Zeller) -F- [KHS]
zandana (Kearfott) -F- [KHS]

Genus: Episimus

argutanus (Clemens) -F- [KHS]

Genus: Eucosma

agricolana (Walsingham) -F- [KHS]
circulana Hübner -F- [KHS]
derelecta? Heinrich -F- [JKM, KHS]
dorsisignatana (Clemens) -F- [KHS, PTD]
gloriola Heinrich -F- [KHS]
lathami Forbes -F- [JKM, KHS]
monitorana Heinrich -F- [KHS]
palabundana Heinrich -F- [KHS]
robinsonana (Grote) -F- [KHS]
similana Clemens -F- [KHS]
tocullionana Heinrich -F- [KHS]

Genus: Eumarozia

malachitana (Zeller) -F- [KHS]

Genus: Grapholita

packardi Zeller -F- [KHS]

Genus: Gretchena

amatana Heinrich -F- [KHS, PTD]
bolliana (Slingerland) PECAN BUD MOTH -F- [KHS]
delicatana Heinrich -F- [KHS]

Genus: Gypsonoma

haimbachiana (Kearfoot) -F- [KHS]
salicicolana (Clemens) -F- [KHS, MS]

Genus: Hedya

separatana (Kearfott) -F- [JDL, KHS]

Genus: Notocelia

culminana (Walsingham) -F- [JKM, KHS]
rosaecolana (Doubleday) -F- [BerL, KHS, MS]

Genus: Olethreutes

albiciliana (Fernald) -F- [KHS]
appendicea (Zeller) -F- [KHS, MS]
astrologana (Zeller) -F- [KHS]
baccatana (McDunnough) -F- [KHS, PTD]
bipartitana (Clemens) -F- [KHS]
cespitana (Hübner) -F- [KHS]
concinna (Clemens) -F- [KHS, MS]
connectus (McDunnough) -F- [KHS]
electrofuscus (Heinrich) -F- [KHS]
fasciatana (Clemens) -F- [KHS]
galevora (McDunnough) -F- [KHS]
melanomesa (Heinrich) -F- [KHS]
permundana (Clemens) -F- [KHS]
punctana (Walsingham) -F- [KHS]
tiliana (Heinrich) -F- [KHS, PTD]

Genus: Pammene

perstructana (Walker) -F- [KHS]

Genus: Phaecasiophora

neveiguttana Grote -F- [KHS]

Genus: Phaneta

alterana (Heinrich) -F- [KHS]
argenticostana (Walsingham) -F- [KHS]
clavana (Fernald) -F- [KHS]
imbridana (Fernald) -F- [KHS, PTD]
montanana (Walsingham) -F- [KHS, PTD]
ochrocephala (Walsingham) -F- [KHS]
ochroterminana (Kearfott) -F- [KHS]
parmatana (Clemens) -F- [KHS]
raracana (Kearfott) -F- [KHS]
tomonana (Kearfott) -F- [JKM, KHS]
umbrastriana (Kearfott) -F- [KHS]

Genus: Proteoteras

aesculana Riley -F- [KHS]
crescentana Kearfott -F- [JKM, KHS]
moffatiana Fernald -F- [KHS, MS]

Genus: Pseudexentera

costomaculana (Clemens) -C- [KHS]
cressoniana (Clemens) -F- [KHS]
faracana (Kearfott) -F- [KHS, MS]
maracana (Kearfott) -F- [KHS, MS]
oregonana (Walsingham) -F- [KHS]
spoliana (Clemens) -F- [KHS, MS]
virginiana (Clemens) -C- [KHS]

Genus: Pseudogalleria

inimicella (Zeller) -F- [KHS]

Genus: Rhyacionia

buoliana (Denis & Schiffermüller) -F- [KHS]

Genus: Sonia

canadana McDunnough -F- [KHS]

Genus: Zomaria

interruptolineana (Fernald) -F- [KHS]

Subfamily: Tortricinae*Genus: Acleris*

caliginosana (Walker) -F- [KHS]
celiana (Robinson) -C- [KHS]
chalybeana (Fernald) -F- [KHS]
cornana (McDunnough) -F- [JFL, KHS, MS]
emargana (Fabricius) -F- [KHS]
forbesana (McDunnough) -F- [KHS, PTD]
hastiana (Linnaeus) -F- [KHS]
logiana placidana (Robinson) -F- [KHS]
logiana (Clerck) -F- [JKM, KHS]
maccana (Treischke) -F- [KHS]
macdunnoughi Obraztsov -F- [JKM, JHS, KHS]
maculidorsana (Clemens) -F- [JHS, MS]
maximana? (Barnes & Busck) -F- [KHS]
nivisellana (Walsingham) -F- [JDL, KHS]
obtusana (Eversmann) -F- [KHS]
robinsoniana (Forbes) -F- [KHS]
semiannula (Robinson) -F- [JHS, MS]
subnivana (Walker) -F- [KHS]
variana (Fernald) -F- [KHS]

Genus: Amorbia

humerosana Clemens -F- [JKM, KHS]

Genus: Archips

alberta (McDunnough) -F- [KHS]
argyrospila (Walker) FRUIT TREE LEAFROLLER MOTH [KHS]

cerasivorana (Fitch) UGLY-NEST CATERPILLAR [KHS]
dissitana (Grote) -B- [KHS]
fervidana (Clemens) -F- [KHS]
myricana (McDunnough) -F- [KHS]
negundana (Dyar) -F- [KHS, PTD]
packardiana (Fernald) -F- [KHS]
purpurana (Clemens) -F- [KHS]
striana Fernald -F- [KHS]

Genus: Argyrotaenia

alisellana (Robinson) -E- [KHS]
cockerellana (Kearfott) -F- [KHS, PTD]
juglandana (Fernald) -F- [KHS]
mariana (Fernald) GRAY-BANDED LEAFROLLER MOTH [KHS]
pinatubana (Kearfott) PINE TUBE MOTH -C- [KHS]
quadrifasciana (Fernald) -F- [KHS]
quercifoliana (Fitch) -C- [KHS]
velutinana (Walker) RED-BANDED LEAFROLLER MOTH -F- [KHS]

Genus: Choristoneura

conflictana (Walker) LARGE ASPEN TORTRIX -F- [KHS, PTD]
fumiferana (Clemens) SPRUCE BUDWORM MOTH -F- [JDL, KHS]
parallela (Robinson) SPOTTED FIREWORM MOTH -F- [KHS]
pinus Freeman JACK PINE BUDWORM MOTH -C- [KHS]
rosaceana (Harris) OBLIQUE-BANDED LEAFROLLER -F- [KHS]

Genus: Clepsia

clemensiana (Fernald) -F- [JKM, KHS, MS]
melaleucana (Walker) -F- [KHS]
persicana (Fitch) WHITE TRIANGLE TORTRIX -F- [KHS]

Genus: Croesia

curvalana (Kearfott) -F- [JKM, KHS]
forskaleana (Linnaeus) -F- [KHS]
semipurpurana (Kearfott) -F- [JKM, KHS]

Genus: Decodes

basiplaganus (Walsingham) -F- [JFL, KHS]

Genus: Pandemis

canadana? Kearfott -F- [KHS]
lamprosana (Robinson) -F- [KHS]
limitata (Robinson) -F- [KHS]

Genus: Platynota

exasperatana (Zeller) -F- [KHS, PTD]
idaeusalis (Walker) -F- [KHS, PTD]

Genus: Ptycholoma

peritana (Clemens) -F- [KHS, PTD]

Genus: Sparganothis

- acerivorana* MacKay -F- [KHS]
diluticostana (Walsingham) -F- [KHS]
distincta (Walsingham) -F- [KHS]
niveana (Walsingham) -F- [KHS]
pettitana (Robinson) -C- [JHS]
reticulatana (Clemens) -F- [KHS]
sulfureana (Clemens) SPARGANOTHIS FRUIT WORM MOTH -C- [KHS]
tristriata Kearfott -C- [KHS]
unifasciana (Clemens) -F- [KHS, PTD]
violaceana (Robinson) -A- [KHS]
xanthoides (Walker) -F- [KHS, PTD]

Genus: Syndemis

- afflictana* (Walker) -F- [KHS]

Family: Cochylidae*Genus: Aethes*

- smeathmanniana* (Fabricius) -F- [KHS, PTD]
voxcana (Kearfott) -F- [JKM, KHS]

Genus: Carolella

- vitellinana* (Zeller) -F- [KHS]

Genus: Cochylis

- bucera* Razowski -F- [KHS, MS]
dubitana (Hübner) -F- [KHS]

Genus: Hysterosia

- argenteimitana* (Robinson) -F- [JKM, KHS]
augustana (Clemens) -F- [KHS]
birdana Busck -F- [KHS]
fulvotinctana Walsingham -F- [KHS]
oenotherana Riley -F- [KHS]
straminoides (Grote) -F- [JKM, KHS]
terminana Busck -F- [JKM, KHS]

SUPERFAMILY: SESIOIDEA**Family: Sesiidae****Subfamily: Paranthreninae***Genus: Albuna*

- fraxini* (Edwards) -B- [KHS]

Subfamily: Sesiinae*Genus: Carmenta*

anthracipennis (Boisduval) LIATRIS BORER MOTH -ABC- [KHS]

Genus: Podosesia

syringae (Harris) LILAC or ASH BORER MOTH -C- [JHS]

Genus: Synanthedon

acerni (Clemens) MAPLE CALLUS BORER MOTH -F- [KHS]

exitiosa (Say) PEACHTREE BORER MOTH -ABC- [JHS, KHS]

pictipes (Grote & Robinson) LESSER PEACHTREE BORER MOTH -F- [KHS]

pyri (Harris) APPLE BARK BORER MOTH -F- [KHS]

scitula (Harris) DOGWOOD BORER MOTH -F- [KHS]

SUPERFAMILY: ZYGAENOIDEA

Family: Limacodidae

Genus: Adoneta

spinuloides (Herrich-Schäffer) -F- [KHS]

Genus: Apoda

biguttata (Packard) -C- [JHS, KHS]

inversum (Packard) -F- [KHS]

Genus: Euclea

delphinii (Boisduval) SPINY OAK-SLUG MOTH -CEF- [JHS, GV, KHS]

Genus: Isa

textula (Herrich-Schäffer) -C- [KHS]

Genus: Lithacodes

fasciola (Herrich-Schäffer) -B- [KHS]

Genus: Packardia

geminata (Packard) -E- [KHS]

Genus: Phalonia

atomasana (Busck) -F- [KHS]

Genus: Phobetron

pithecium (J.E.Smith) HAG MOTH -F- [KHS]

Genus: Prolimacodes

badia (Hübner) SKIFF MOTH -C- [DFS, JHS, KHS]

Genus: Tortricidia

flexuosa (Grote) -F- [KHS]

testacea Packard -F- [KHS]

Family: Zygaenidae

*Genus: Harrisina**americana* (Guérin-Méneville) GRAPELEAF SKELETONIZER MOTH -F- [KHS]**SUPERFAMILY: COPROMORPHOIDEA****Family: Carposinidae***Genus: Bondia**crescentella* (Walsingham) -F- [KHS]*species 1* -F- [KHS]*Genus: Carposina**fernaldana* Busck CURRANT FRUITWORM MOTH -F- [KHS]**SUPERFAMILY: EPERMENIOIDEA****Family: Epermeniidae***Genus: Epermenia**imperialella* Busck -F- [KHS]*Genus: Ochromolopis**ramapoella* (Kearfott) -E- [JFL, KHS]**SUPERFAMILY: ALUCITOIDEA****Family: Alucitidae***Genus: Alucita**hexadactyla* Linnaeus SIX PLUME MOTH -F- [KHS]**SUPERFAMILY: PTEROPHOROIDEA****Family: Pterophoridae***Genus: Adaina**ambrosiae* (Murtfeldt) -C- [BerL, KHS]*Genus: Cnaemidophorus**rhododactylus* (Denis & Schiffermüller) -A- [BerL, KHS]*Genus: Dejongia**lobidactylus* (Fitch) -F- [BerL, KHS]*Genus: Emmelina**monodactyla* (Linnaeus) -F- [KHS]*Genus: Geina**periscelidactyla* (Fitch) -F- [BerL, KHS]*sheppardi* Landry -F- [BerL, KHS]

tenuidactyla (Fitch) -B- [JHS]

Genus: Gillmeria

pallidactyla (Haworth) -F- [BerL, KHS]

Genus: Hellinsia

homodactyla (Walker) -F- [KHS]

inquinata (Zeller) -F- [BerL, KHS]

lacteodactyla (Chambers) -F- [KHS]

Genus: Oidaematophorus

cretidactylus (Fitch) -F- [BerL, KHS]

Genus: Sphenarches

ontario? (McDunnough) -C- [JHS]

Genus: Stenoptilia

coloradensis Fernald -F- [BerL, KHS]

pallistriga Barnes & McDunnough -F- [BerL, KHS]

Genus: Stenoptilodes

auriga (Barnes & Lindsey) -EF- [BerL, KHS]

brevipennis (Zeller) -F- [BerL, KHS]

Genus: Oidaematophorus

cretidactylus (Fitch) -F- [BerL, KHS]

mathewianus (Zeller) -F- [KHS]

unicolor (Barnes & McDunnough) -F- [JKM, KHS]

Genus: Paraplatyptilia

edwardsii (Fish) -C- [BerL, KHS]

SUPERFAMILY: PYRALOIDEA

Family: Pyralidae

Subfamily: Scopariinae

Genus: Scoparia

basalis Walker -F- [BerL, KHS]

Subfamily: Nymphulinae

Genus: Acentria

ephemerella (Denis & Schiffermüller) -F- [BerL, KHS]

Genus: Eustixia

pupula Hübner -F- [KHS]

Genus: Munroessa

gyralis gyralis (Hulst) -A- [BerL, KHS]

icciusalis (Walker) -F- [KHS]

Genus: Nymphula

ekthlipsis (Grote) -F- [BerL, KHS]

Genus: Parapoynx

allionealis Walker -C- [BerL, KHS]

allionealis itealis Walker -BC- [BerL, KHS]

badiusalis (Walker) -C- [BerL, JHS, GV, KHS]

maculalis (Clemens) -F- [BerL, KHS]

obscuralis (Grote) -F- [BerL, KHS]

Genus: Petrophila

bifascialis (Robinson) -C- [KHS]

canadensis (Munroe) -F- [KHS]

fulcalis (Clemens) -C- [KHS]

Genus: Synclita

obliteralis (Walker) -F- [KHS]

tinealis Munroe -F- [KHS]

Subfamily: Odontiinae

Genus: Metrea

ostreonalis Grote -F- [KHS]

Subfamily: Glaphyriinae

Genus: Chalcoela

iphitalis (Walker) -F- [KHS]

Genus: Dicymolomia

julianalis (Walker) -F- [BerL, KHS]

Genus: Xanthophysa

psychialis (Hulst) -F- [KHS]

Subfamily: Evergestinae

Genus: Evergestis

pallidata (Hufnagel) PURPLE-BANDED CABBAGEWORM MOTH -F- [KHS]

unimacula (Grote & Robinson) -F- [BerL, KHS]

Subfamily: Pyraustinae

Genus: Achyra

rantalalis (Guenée) -F- [KHS]

Genus: Anageshna

primordialis (Dyar) -E- [JKM, KHS]

Genus: Anania

funebri (Ström) -BC- [JHS, KHS]

Genus: Blepharomastix

ranalis (Guenée) -F- [KHS]

Genus: Crocidophora

tuberculalis Lederer -F- [KHS]

Genus: Desmia

funeralis (Hübner) GRAPE LEAF FOLDER MOTH -ABCE- [KHS]

maculalis Westwood -F- [KHS]

Genus: Diacme

adipaloides (Grote & Robinson) -F- [KHS]

Genus: Diathrausta

reconditalis (Walker) -F- [BerL, KHS]

Genus: Eurrhyncha

hortulata (Linnaeus) -F- [KHS]

Genus: Fumibotys

fumalis (Guenée) MINT ROOT BORER -F- [KHS]

Genus: Hahncappia

pergilvalis (Hulst) -F- [KHS]

Genus: Herpetogramma

pertextalis (Lederer) -F- [BerL, KHS]

thestealis (Walker) -F- [KHS]

Genus: Hymenia

perspectalis (Hübner) SPOTTED BEET WEBWORM MOTH -F- [KHS]

Genus: Loxostege

cereralis (Zeller) -C- [JDL, KHS]

sticticalis (Linnaeus) -C- [KHS, KZ]

Genus: Lygropia

rivulalis Hampson -F- [JDL, KHS]

Genus: Nascia

acutella (Walker) -F- [JKM, KHS]

Genus: Nomophila

nearctica Munroe -C- [BerL, KHS]

Genus: Ostrinia

nubilalis (Hübner) EUROPEAN CORN BORER MOTH -C- [BerL, KHS]

Genus: Palpita

magniferalis (Walker) -F- [BerL, KHS]

Genus: Pantographa

limata (Grote and Robinson) BASSWOOD LEAFROLLER -F- [KHS]

Genus: Perispasta

caeculalis Zeller -F- [KHS]

Genus: Phyltaenia

coronata tertialis (Guenée) -F- [BerL, KHS]

coronata (Hufnagel) -F- [KHS]

Genus: Pilocrocis

ramentalis Lederer -C- [KHS]

Genus: Pyrausta

acrionalis (Walker) -F- [BerL, KHS]

bicoloralis (Guenée) -C- [KHS]

orphisalis Walker -AE- [JKM, KHS]

signatalis (Walker) -CE- [KHS]

socialis (Grote) -F- [KHS]

Genus: Saucrobotys

fumoferalis (Hulst) -F- [KHS]

futilalis (Lederer) -F- [KHS]

Genus: Sitochroa

chortalis (Grote) -A- [KHS]

Genus: Udea

rubigalis (Guenée) CELERY LEAFTIER -F- [BerL, KHS]

Subfamily: Schoenobiinae*Genus: Donacaula*

longirostrella (Clemens) -F- [JKM, KHS]

melinella (Clemens) -F- [KHS]

sordidella (Zincken) -F- [KHS, MS]

Genus: Scirpophaga

perstrialis (Hübner) HOCKEY STICK MOTH -A- [JDL, KHS]

Subfamily: Ancylolomiinae*Genus: Prionapteryx*

nebulifera Stephens -F- [BerL, KHS]

Subfamily: Crambinae

*Genus: Agriphila**ruricolella* (Zeller) -F- [KHS]*Genus: Catoptria**latiradiella* (Walker) -F- [KHS]*Genus: Chrysoteuchia**topiaria* (Zeller) -F- [KHS]*Genus: Crambus**albellus* Clemens [KHS]*bidens* Zeller -C- [KHS]*girardellus* Clemens -B- [BerL, JHS]*leachellus* (Zincken) -A- [BerL, JHS, KHS]*praefectellus* (Zincken) -C- [JHS]*saltuellus* Zeller -F- [KHS]*unistriatellus* Packard -F- [KHS]*watsonellus* Klots -F- [BerL, KHS]*Genus: Eoreuma**densella* (Zeller) -F- [JKM, KHS]*Genus: Fissicrambus**mutabilis* (Clemens) -F- [BerL, KHS]*Genus: Loxocrambus**awemensis* McDunnough -F- [BerL, KHS]*Genus: Microcrambus**biguttellus* (Forbes) -F- [JDL, KHS]*elegans* (Clemens) -F- [BerL, KHS]*Genus: Neodactria**caliginosella* (Clemens) -F- [KHS]*Genus: Occidentalia**comptulatalis* (Hulst) -F- [JKM, KHS]*Genus: Pediasia**trisecta* (Walker) -F- [BerL, KHS]*Genus: Thaumatopsis**solutella* (Zeller) -A- [BerL, KHS]*Genus: Thopeutis**forbesellus* (Fernald) -F- [BerL, KHS]*Genus: Urola*

nivalis (Drury) -ACE- [KHS]

Genus: Vaxi

auratella (Clemens) -F- [KHS]

critica (Forbes) -F- [KHS]

Subfamily: Pyralinae

Genus: Aglossa

cuprina Zeller GREASE MOTH -C- [BerL, KHS]

Genus: Herculia

infimbrialis Dyar -C- [KHS]

intermedialis (Walker) -F- [KHS]

olinalis (Guenée) -ABC- [BerL, KHS]

Genus: Hypsopygia

costalis (Fabricius) CLOVER HAYWORM MOTH -E- [KHS]

Genus: Pyralis

disciferalis Dyar -F- [KHS]

farinalis Linnaeus -C- [BC, KHS]

Subfamily: Chrysauginae

Genus: Condylolomia

participalis Grote -F- [KHS]

Genus: Galasa

nigrinodis (Zeller) -F- [JKM, KHS]

Genus: Tosale

oviplagalis (Walker) -F- [KHS]

Subfamily: Epipaschiinae

Genus: Macalla

zelleri (Grote) -F- [JDL, KHS]

Genus: Oneida

lunulalis (Hulst) -C- [BerL, KHS]

Genus: Pococera

aplastella (Hulst) -F- [BL, KHS]

asperatella (Clemens) -F- [KHS]

expandens (Walker) -F- [GB, KHS]

species 1 -F- [KHS]

Subfamily: Galleriinae

*Genus: Aphomia**terrenella* Zeller -F- [JKM, KHS]*Genus: Galleria**mellonella* (Linnaeus) GREATER WAX MOTH - C- [KHS]**Subfamily: Phycitinae***Genus: Acrobasis**caryae* Grote -F- [KHS]*indigenella* (Zeller) -F- [KHS]*palliolella* Ragonot -C- [KHS]*tricolorella* Grote -F- [BerL, KHS]*Genus: Dioryctria**disclusa* Heinrich -F- [BerL, KHS]*resinosella* Mutuura -F- [BerL, KHS]*zimmermani* (Grote) -B- [BerL, KHS]*Genus: Eulogia**ochrifrontella* (Zeller) -F- [KHS]*Genus: Eurythmia**angulella* Ely -F- [KHS]*Genus: Homoeosoma**electellum* (Hulst) -F- [KHS]*Genus: Moodna**ostrinella* (Clemens) -F- [KHS]*Genus: Nephopterix**basilaris* Zeller -F- [JKM, KHS]*subfuscella* (Ragnot) -F- [GB]*vetustella* (Dyar) -F- [BerL, KHS]*Genus: Ortholepis**myricella* McDunnough -F- [JKM, KHS]*pasadamia* (Dyar) -F- [BerL, KHS]*Genus: Pyla**arenaeola* Balogh & Wilterding -A- [GB]*fusca* (Haworth) -F- [KHS]*insinuatix* Heinrich -F- [GB]**Subfamily: Peoriinae***Genus: Peoria**approximella* (Walker) -C- [BerL, KHS]

Family: Thyrididae*Genus: Thyris**maculata* Harris -B- [KHS]*sepulchralis* Guérin-Méneville MOURNFUL THYRIS -B- [KHS]**SUPERFAMILY: GEOMETROIDEA****Family: Geometridae****Subfamily: Oenchrominae***Genus: Alsophila**pometari* (Harris) FALL CANCKERWORM MOTH -F- [KHS]**Subfamily: Ennominae***Genus: Aethalura**intertexta* (Walker) FOUR-BARRED GRAY -F- [KHS]*Genus: Anacamptodes**humaria* (Guenée) SMALL PURPLISH GRAY -F- [KHS]*vellivolata* (Hulst) LARGE PURPLISH GRAY -F- [KHS]*Genus: Anavitrinella**pampinaria* (Guenée) COMMON GRAY -F- [KHS]*Genus: Apodrepanulatrix**liberaria* (Walker) -BCD- [KHS]*Genus: Besma**quercivoraria* (Guenée) OAK BESMA -C- [DFS, KHS]*Genus: Biston**betularia* (Linnaeus) PEPPER and SALT GEOMETER -BCEF- [KHS]*Genus: Cabera**erythemaria* Guenée YELLOW-DUSTED CREAM MOTH -F- [KHS]*variolaria* Guenée PINK-STRIPED WILLOW SPANWORM MOTH -C- [KHS]*Genus: Campaea**perlata* (Guenée) PALE BEAUTY -C- [JHS, KHS]*Genus: Caripeta**divisata* Walker GRAY SPRUCE LOOPER MOTH -BE- [KHS]*piniata* (Packard) NORTHERN PINE LOOPER -BC- [KHS]*Genus: Cephis**armataria* (Herrich-Schäffer) SCALLOP MOTH -B- [JDL, KHS]*decoloraria* (Hulst) -F- [KHS]

Genus: Cingilia

catenaria (Drury) CHAIN-SPOTTED GEOMETER -C- [JHS, KHS]

Genus: Ectropis

crepuscularia (Denis and Schiffermüller) THE ENGRAILED -E- [KHS]

Genus: Enconista

dislocaria (Packard) PALE-VEINED ENCONISTA -F- [KHS]

Genus: Ennomos

magnaria Guenée MAPLE SPANWORM MOTH -BC- [JHS, KHS]

subsignaria (Hübner) ELM SPANWORM MOTH -BC- [DFS, JHS, KHS]

Genus: Epimecis

hortaria (Fabricius) TULIP-TREE BEAUTY -A- [JHS, KHS]

Genus: Erannis

tiliaria (Harris) WINTER MOTH -C- [JHS, KHS]

Genus: Erastria

coloraria (Fabricius) BROAD-LINED ERASTRIA -ACE- [DFS, KHS]

cruentaria (Hübner) -F- [KBB, BC, KHS]

Genus: Euchlaena

effecta (Walker) -F- [KHS]

irraria (Barnes and McDunnough) LEAST-MARKED EUCHLAENA -F- [KHS]

johnsonaria (Fitch) JOHNSON'S EUCHLAENA -CE- [DFS, KHS, GV]

madusaria (Walker) -F- [BC, KHS]

marginaria (Minot) -C- [JHS]

muzaria (Walker) MUZARIA EUCHLAENA -CEF- [KHS]

serrata (Drury) THE SAW-WING -F- [KHS]

Genus: Eufidonia

convergaria (Walker) -C- [KHS]

discospilata (Walker) -F- [KHS]

notataria (Walker) POWDER MOTH -C- [KHS]

Genus: Eugonobapta

nivosaria (Guenée) SNOWY GEOMETER -F- [KHS]

Genus: Eumacaria

latiferrugata (Walker) BROWN-BORDERED GEOMETER [KHS]

Genus: Eusarca

confusaria Hübner CONFUSED EUSARCA -B- [KHS]

Genus: Eutrapela

clemataria (J.E. Smith) CURVE-TOOTHED GEOMETER -CE- [KHS, GV]

Genus: Glena

cribrataria (Guenée) DOTTED GRAY -BE- [KHS]

Genus: Gueneria

similaria (Walker) -F- [KHS]

Genus: Heliomata

cycladata Grote & Robinson COMMON SPRING MOTH -F- [KHS]

Genus: Hesperumia

sulphuraria Packard SULPHUR MOTH -F- [DFS]

Genus: Heterophleps

triguttaria Herrich-Schäffer THREE-SPOTTED FILLIP -F- [KHS]

Genus: Homochlodes

fritillaria (Guenée) PALE HOMOCHLODES -F- [KHS]

Genus: Hypagyrtis

piniata (Packard) PINE MEASURINGWORM MOTH -C- [KHS]

unipunctata (Haworth) ONE-SPOTTED VARIANT -C- [KHS]

Genus: Itame

argillacearia (Packard) MOUSY ITAME -E- [KHS]

coortaria (Hulst) FOUR SPOTTED ITAME -F- [KHS]

evagaria (Hulst) DRAB ITAME -C- [DFS, KHS]

loricaria (Eversmann) -F- [DFS]

occiduaria (Packard) -BC- [KHS]

pustularia (Guenée) LESSER MAPLE SPANWORM MOTH -CF- [DFS, KHS]

subcessaria (Walker) BARRED ITAME -BE- [KHS]

Genus: Lambdina

fervidaria (Hübner) CURVED-LINED LOOPER MOTH -C- [KHS]

fiscellaria (Guenée) HEMLOCK LOOPER MOTH -C- [KHS, GV]

Genus: Lomographa

semiclarata (Walker) BLUISH SPRING MOTH

vestaliata (Guenée) WHITE SPRING MOTH -AC- [KHS]

Genus: Lycia

ursaria (Walker) STOUT SPANWORM MOTH -F- [KHS]

Genus: Lytrosis

unitaria (Herrich-Schäffer) COMMON LYTROSIS -AB- [JHS, KHS]

Genus: Macaria

signaria (Hübner) -PALE-MARKED ANGLE- -F- [JKM, KHS]

Genus: Melanolophia

canadaria (Guenée) CANADIAN MELANOLOPHIA -F- [KHS]

signataria (Walker) SIGNATE MELANOLOPHIA -F- [KHS]

Genus: Metanema

- determinata* Walker DARK METANEMA -F- [DFS, KHS]
inatomaria Guenée PALE METANEMA -C- [JHS, KHS]

Genus: Metarranthis

- duaria* (Guenée) RUDDY METARRANTHIS -AC- [KHS]
mestusata? (Walker) COMMON METARRANTHIS -F- [KHS]

Genus: Nacophora

- quernaria* (J.E. Smith) OAK BEAUTY -BC- [KHS, GV]

Genus: Nematocampa

- resistaria* (Herrich-Schäffer) HORNED SPANWORM -F- [KHS]

Genus: Nepytia

- canosaria* (Walker) FALSE HEMLOCK LOOPER MOTH -BCE- [JHS, KHS]

Genus: Paleacrita

- vernata* (Peck) SPRING CANKERWORM -C- [DFS, GV]

Genus: Pero

- honestaria* (Walker) HONEST PERO -BC- [KHS]
morrisonaria (Hy. Edwards) -F- [KHS]

Genus: Petrophora

- subaequaria* (Walker) NORTHERN PETROPHORA -F- [KHS]

Genus: Phigalia

- denticulata* Hulst TOOTHED PHIGALIA -F- [DFS]
strigataria (Minot) SMALL PHIGALIA -F- [KHS]
titea (Cramer) THE HALF-WING -C- [JHS, KHS]

Genus: Plagodis

- alcoolaria* (Guenée) HOLLOW SPOTTED PLAGODIS -F- [KHS]
fervidaria (Herrich-Schäffer) FERVID PLAGODIS -F- [JDL, KHS]
kuetzingi (Grote) PURPLE PLAGODIS -F- [KHS]
phlogosaria (Guenée) STRAIGHT-LINED PLAGODIS -F- [DFS, KHS]
serinaria Herrich-Schäffer LEMON PLAGODIS -F- [KHS]

Genus: Probole

- alienaria* Herrich-Schäffer DOGWOOD PROBOLE -F- [JDL, KHS]
amicaria (Herrich-Schäffer) FRIENDLY PROBOLE -C- [KHS]

Genus: Prochoerodes

- transversata* (Drury) LARGE MAPLE SPANWORM MOTH -CF- [KHS]

Genus: Protitame

- virginalis* (Hulst) VIRGIN MOTH -F- [DFS, KHS]

Genus: Protoboarmia

porcelaria (Guenée) PORCELAIN GRAY -CE- [DFS, KHS]

Genus: Semiothisa

aemulataria (Walker) COMMON ANGLE -F- [KHS]
banksianae Ferguson -E- [KHS]
bicolorata (Fabricius) BICOLORED ANGLE -F- [KHS]
bisignata (Walker) RED-HEADED INCHWORM -C- [DFS, KHS]
continuata (Walker) CURVE-LINED ANGLE -F- [JDL, KHS]
denticulata Grote -F- [KBB, KHS]
fissinotata (Walker) HEMLOCK ANGLE -F- [KHS]
gnophosaria (Guenée) HOLLOW-SPOTTED ANGLE -F- [JDL, KHS]
hebetata (Hulst) -F- [KHS]
mellistrigata (Grote) -F- [KHS]
minorata (Packard) MINOR ANGLE -BC- [DFS, KHS]
ocellinata (Guenée) FAINT SPOTTED ANGLE -F- [KHS]
orillata (Walker) -F- [DFS, KHS]
pinistrobata Ferguson WHITE PINE ANGLE -C- [DFS, KHS]
sexmaculata (Packard) GREEN ARCH LOOPER -F- [DFS, KHS]
submarmorata (Walker) -F- [KHS]
transitaria (Walker) BLURRY CHOCOLATE ANGLE -F- [DFS, KHS]

Genus: Sicya

macularia (Harris) SHARP-LINED YELLOW -B- [KHS]

Genus: Tetracis

cachexiata Guenée WHITE SLANT-LINE -C- [KHS]
crocallata Guenée YELLOW SLANT-LINE -BC- [KHS]

Genus: Xanthotype

urticaria Swett FALSE CROCUS GEOMETER -ABC- [JHS, KHS]

Subfamily: Geometrinae

Genus: Chlorochlamys

chloroleucaria (Guenée) BLACKBERRY LOOPER MOTH -C- [KHS]

Genus: Dichorda

iridaria (Guenée) SHOWY EMERALD -BC- [JHS, KHS]

Genus: Nemoria

bistriaria Hübner -C- [DFS, KHS]
mimosaria (Guenée) -C- [DFS, GV, KHS]
rubrifrontaria (Packard) RED-FRONTED EMERALD -C- [KHS]

Genus: Synchlora

aerata (Fabricius) WAVY-LINED EMERALD -F- [KHS]

Subfamily: Sterrhinae

Genus: Cyclophora

packardi (Prout) PACKARD'S WAVE -F- [JDL, KHS]

pendulinaria (Guenée) SWEETFERN GEOMETER -A- [KHS]

Genus: Haematopsis

grataria (Fabricius) CHICKWEED GEOMETER -C- [JHS, KHS]

Genus: Idaea

demissaria (Hübner) RED-BORDERED WAVE -F- [JDL, KHS]

dimidiata (Hufnagel) -F- [KHS]

violacearia (Walker) -C- [KBB, DFS, KHS]

Genus: Pleuroprucha

insulsaria (Guenée) COMMON TAN WAVE -F- [KBB, DFS, JHS]

Genus: Scopula

inductata (Guenée) SOFT-LINED WAVE -CE- [KHS]

limboundata relevata (Swett) LARGE LACE-BORDER -E- [KHS]

limboundata enucleata (Guenée) -F- [KHS]

Subfamily: Larentiinae

Genus: Acasis

viridata (Packard) OLIVE AND BLACK CARPET -F- [KHS]

Genus: Anticlea

multiferata (Walker) MANY-LINED CARPET -C- [KHS]

vasiliata Guenée -F- [KHS]

Genus: Coryphista

meadii (Packard) BARBERRY GEOMETER -C- [KHS, GV]

Genus: Dyspteris

abortivaria (Herrich-Schäffer) BAD-WING -BC- [DFS, JHS, KHS]

Genus: Dysstroma

hersiliata (Guenée) ORANGE-BARRED CARPET -F- [KHS]

truncata (Hufnagel) MARBLED CARPET -F- [JKM, KHS]

Genus: Ecliptopera

silaceata (Denis & Schiffermüller) -F- [KHS]

Genus: Epirrhoe

alternata (Müller) WHITE-BANDED TOOTHED CARPET -C- [KHS]

Genus: Epirrita

autumnata henshawi (Swett) -F- [KHS]

Genus: Eubaphe

mendica (Walker) THE BEGGAR -BC- [KHS]

Genus: Eulithis

- diversilineata* (Hübner) LESSER GRAPEVINE LOOPER MOTH -BC- [DFS, JHS, KHS]
explanata (Walker) WHITE EULITHIS -F- [DFS, KHS]
molliculata (Walker) DIMORPHIC EULITHIS -C- [KHS]
testata (Linnaeus) CHEVRON MOTH -F- [JDL, KHS]

Genus: Euphyia

- unangulata* (Haworth) SHARP-ANGLED CARPET -C- [KHS]

Genus: Eupithecia

- absinthiata* (Clerck) -F- [KBB, KHS]
affinata Pearsall -F- [KHS]
cretacea (Packard) -F- [JKM, KHS]
gelidata Möschler -F- [KHS]
interruptofasciata Packard -A- [KBB, KHS]
intricata (Zetterstedt) -F- [KHS]
miserulata Grote COMMON EUPITHECIA -BF- [DFS, KHS]
misturata (Hulst) -F- [KHS]
palpata Packard -F- [KHS]
perfusca (Hulst) -F- [KHS]
subfuscata (Haworth) -C- [KHS]
swettii Grossbeck -F- [KHS]
tripunctaria Herrich-Schäffer -F- [KHS]

Genus: Horisme

- intestinata* (Guenée) BROWN BARK CARPET -B- [KHS]

Genus: Hydrelia

- albifera* (Walker) FRAGILE WHITE CARPET -F- [KHS]

Genus: Hydriomena

- divisaria* (Walker) BLACK-DASHED HYDRIOMENA -F- [KBB, KHS]
renunciata (Walker) RENOUNCED HYDRIOMENA -CF- [DFS, KHS]
ruberata (Freyer) -E- [KHS]
transfigurata Swett TRANSFIGURED HYDRIOMENA -F- [KHS]

Genus: Lobophora

- nivigerata* Walker POWDERED BIGWING -C- [KHS]

Genus: Mesoleuca

- ruficillata* (Guenée) WHITE-RIBBONED CARPET -F- [KHS]

Genus: Operophtera

- bruceata* (Hulst) -F- [KHS]

Genus: Orthonama

- centrostrigaria* (Wollaston) BENT-LINED CARPET -C- [KHS, GV]
obstipata (Fabricius) THE GEM -BC- [DFS, JHS, KHS]

Genus: Perizoma

basaliata (Walker) SQUARE-PATCHED CARPET -F- [KHS]

Genus: Rheumaptera

hastata (Linnaeus) -B- [JHS]

undulata (Linnaeus) SCALLOP SHELL -CEF- [DFS, KHS]

Genus: Spargania

magnoliata Guenée DOUBLE-BANDED CARPET -F- [KHS]

Genus: Stamnodes

gibbicostata (Walker) SHINY GRAY CARPET -F- [KHS]

Genus: Thera

contractata (Packard) -C- [KHS]

juniperata (Linnaeus) -C- [KHS]

otisi (Dyar) -F- [KBB, KHS]

Genus: Trichodezia

albovittata (Guenée) WHITE-STRIPPED BLACK -BE- [KHS]

Genus: Xanthorhoe

decoloraria (Esper) -F- [KBB, KHS]

ferrugata (Clerck) RED TWIN-SPOT -F- [DFS, KHS]

labradorensis (Packard) LABRADOR CARPET -F- [KHS]

lacustrata (Guenée) TOOTHED BROWN CARPET -F- [KHS]

packardata McDunnough PACKARD'S CARPET -F- [KHS]

SUPERFAMILY: URANIOIDEA

Family: Uraniidae

Genus: Caledapteryx

dryopterata Grote BROWN SCOOPWING -B- [JDL, KHS]

SUPERFAMILY: MIMALLONOIDEA

Family: Mimallonidae

Genus: Cicinnus

melsheimeri (Harris) MELSHEIMER'S SACK-BEARER -AC- [JHS, KHS]

Genus: Lacosoma

chiridota Grote SCALLOPED SACK-BEARER -F- [KHS]

SUPERFAMILY: DREPANOIDEA

Family: Drepanidae

Subfamily: Thyatirinae

*Genus: Euthyatira**pudens* (Guenée) DOGWOOD THYATIRID -C- [KHS]*Genus: Habrosyne**gloriosa* (Guenée) GLORIOUS HABROSYNE -AB- [KHS]*Genus: Pseudothyatira**cymatophoroides* (Guenée) TUFTED THYATIRID -F- [KHS]**Subfamily: Drepaninae***Genus: Drepana**arcuata* Walker ARCHED HOOKTIP -C- [JHS, GV, KHS]*bilineata* (Packard) TWO-LINED HOOKTIP -F- [KHS]*Genus: Eudeilina**herminiata* (Guenée) NORTHERN EUDEILINEA -F- [KHS]**Subfamily: Oretinae***Genus: Oreta**rosea* (Walker) ROSE HOOKTIP -BC- [JHS, KHS]**SUPERFAMILY: HESPERIOIDEA****Family: Hesperidae****Subfamily: Pyrginae***Genus: Epargyreus**clarus* (Cramer) SILVER-SPOTTED SKIPPER -A(Ob)B(Ob)- [JHS]*Genus: Erynnis**brizo* (Boisduval & LeConte) SLEEPY DUSKY WING -ABC- [JHS]*horatius* (Scudder & Burgess) HORACE'S DUSKY WING -C- [BrK, JHS]*icelus* (Scudder & Burgess) DREAMY DUSKY WING -ABC(Ob)- [JHS]*juvenalis* (Fabricius) JUVENAL'S DUSKY WING -ABC- [JHS]*lucilius* (Scudder & Burgess) COLUMBINE DUSKY WING -ABC- [JHS]*martialis* (Scudder) MOTTLED DUSKY WING -A(Ob)C(Ob)- [JHS]*Genus: Pholisora**catullus* (Fabricius) COMMON SOOTY WING -F- [JHS]*Genus: Thorybes**bathyllus* (J.E. Smith) SOUTHERN CLOUDY WING -ABC- [JHS]*pylades* (Scudder) NORTHERN CLOUDY WING -A(Ob)BCF- [JHS]**Subfamily: Hesperinae***Genus: Amblyscirtes*

viialis (Edwards) ROADSIDE SKIPPER -A(Ob)BC- [JHS]

Genus: Ancyloxypha

numitor (Fabricius) LEAST SKIPPER -B(Ob)C(Ob)- [JHS]

Genus: Atrytone

logan (Edwards) DELAWARE SKIPPER -B(Ob)CD- [JHS]

Genus: Atrytonopsis

hianna (Scudder) DUSTED SKIPPER -BC- [JHS]

Genus: Euphyes

conspicuus (Edwards) BLACK DASH -BC- [JHS]

vestris (Boisduval) DUN SKIPPER -BC- [JHS]

Genus: Hesperia

leonardus Harris LEONARD'S SKIPPER -ABC- [JHS]

Genus: Poanes

hobomok (Harris) HOBOMOK SKIPPER -ABC- [JHS]

massasoit (Scudder) MULBERRY WING -BC- [JHS]

viator (Edwards) BROAD-WINGED SKIPPER -C(Ob)- [JHS]

zabulon (Boisduval & LeConte) ZABULON SKIPPER -C(P)- [ALP]

Genus: Polites

mystic (Edwards) LONG DASH -B(Ob)C- [JHS]

origenes (Fabricius) CROSSLINE SKIPPER -ABCF- [JHS]

peckius (Kirby) PECK'S SKIPPER -F(Ob)- [JHS]

themistocles (Latreille) TAWNY-EDGED SKIPPER -E(Ob)- [JHS]

Genus: Pompeius

verna (Edwards) LITTLE GLASSY WING -CF- [JHS]

Genus: Thymelicus

lineola (Ochsenheimer) EUROPEAN SKIPPER -B(Ob)C(Ob)- [JHS]

Genus: Wallengrenia

egeremet (Scudder) NORTHERN BROKEN DASH -B(Ob)CDF- [JHS]

SUPERFAMILY: PAPILIONOIDEA

Family: Papilionidae

Genus: Papilio

canadensis Rothschild & Jordan CANADIAN TIGER SWALLOWTAIL -A(Ob)BC- [JHS]

cresphontes Cramer GIANT SWALLOWTAIL -B(Ob)F(Ob)- [JHS]

glaucus Linnaeus TIGER SWALLOWTAIL -AB(Ob)C(Ob)F- [JHS]

polyxenes Fabricius BLACK SWALLOWTAIL -B(Ob)C(Ob)F(Ob)- [JHS]

troilus Linnaeus SPICEBUSH SWALLOWTAIL -A(Ob)B(Ob)CD- [JHS]

Family: Pieridae**Subfamily: Pierinae***Genus: Euchloe**olympia* (Edwards) OLYMPIA MARBLE -BC- [JHS]*Genus: Pieris**rapae* (Linnaeus) CABBAGE BUTTERFLY -A(Ob)B(Ob)C- [JHS]**Subfamily: Coliadinae***Genus: Colias**eurytheme* Boisduval ALFALFA BUTTERFLY -B(Ob)C- [JHS]*philodice* Godart CLOUDED SULPHUR -B(Ob)C(Ob)- [JHS]*Genus: Eurema**lisa* Boisduval & LeConte LITTLE SULPHUR -F- [JHS, KHS]*Genus: Nathalis**iola* Boisduval DAINTY SULPHUR -D- [ALP]**Family: Lycaenidae****Subfamily: Lycaeninae***Genus: Lycaena**dorcas* Kirby DORCAS COPPER -E- [JHS, KHS]*hyllus* (Cramer) BRONZE COPPER -BF- [JHS]*phlaeas* (Linnaeus) AMERICAN COPPER -A- [JHS]**Subfamily: Theclinae***Genus: Callophrys**augustinus* (Westwood) BROWN ELFEN -C(Ob)F(Ob)E- [JHS]*irus* (Godart) FROSTED ELFEN -F- [QFH]*niphon* (Hübner) EASTERN PINE ELFEN -BCDE(Ob)- [JHS]*polia* (Cook & Watson) HOARY ELFEN -C EF(Ob)- [JHS]*Genus: Satyrium**acadicum* (Edwards) ACADIAN HAIRSTREAK -CF- [JHS]*calanus* (Hübner) BANDED HAIRSTREAK -AB(Ob)C- [JHS]*caryaevorum* (McDunnough) HICKORY HAIRSTREAK -C- [JHS]*edwardsii* (Grote & Robinson) EDWARD'S HAIRSTREAK -ABC- [JHS]*liparops* (LeConte) STRIPED HAIRSTREAK -BC- [JHS]*titus* (Fabricius) CORAL HAIRSTREAK -AB(Ob)C- [JHS]**Subfamily: Polyommatae***Genus: Celastrina*

ladon (Cramer) SPRING AZURE -BCD- [JHS]

neglecta (Edwards) SUMMER AZURE -ABCF- [JHS]

Genus: Everes

comyntas (Godart) EASTERN TAILED BLUE -BC- [JHS]

Genus: Lycaeides

melissa samuelis Nabakov KARNER BLUE -AC(X)- [BrK, JHS]

Family: Nymphalidae

Subfamily: Libytheinae

Genus: Libytheana

carinenta bachmanii (Kirtland) EASTERN SNOUT BUTTERFLY -C(Ob)D(Ob)- [AHR]

Subfamily: Argynninae

Genus: Boloria

bellona (Fabricius) MEADOW FRITILLARY -F(Ob)- [JHS]

Genus: Euptoieta

claudia (Cramer) VARIEGATED FRITILLARY -E(Ob)- [JHS]

Genus: Speyeria

aphrodite (Fabricius) APHRODITE FRITILLARY -C- [BrK, KHS]

cybele (Fabricius) GREAT SPANGLED FRITILLARY -A(Ob)B(Ob)C(Ob), F- [JHS]

Subfamily: Melitaeinae

Genus: Chlosyne

nycteis (Doubleday) SILVERY CHECKERSPOT -A(Ob)B(Ob)CF- [JHS]

Genus: Euphydryas

phaeton (Drury) BALTIMORE -F- [JHS]

Genus: Phyciodes

batesii (Reakirt) TAWNY CRESCENT -BC(X)- [JHS]

cocyta (Cramer) NORTHERN PEARL CRESCENT -ABCF- [JHS]

tharos (Drury) PEARL CRESCENT -ABC(Ob)F- [JHS]

Subfamily: Nymphalinae

Genus: Junonia

coenia Hübner BUCKEYE -E- [JHS]

Genus: Nymphalis

antiopa (Linnaeus) MOURNING CLOAK -AB(Ob)C(Ob)- [JHS]

milberti (Godart) MILBERT'S TORTOISESHELL -F- [JHS]

vaualbum (Denis & Schiffermüller) COMPTON'S TORTOISESHELL -C(Ob)D(Ob)- [JHS]

Genus: Polygonia

- comma* (Harris) HOP MERCHANT -A(Ob)B(Ob)C- [JHS]
interrogationis (Fabricius) QUESTION MARK -A(Ob)B(Ob)C- [JHS]

Genus: Vanessa

- atalanta* (Linnaeus) RED ADMIRAL -A(Ob)B(Ob)C- [JHS]
cardui (Linnaeus) PAINTED LADY -C- [JHS]
virginiensis (Drury) AMERICAN PAINTED LADY -CD(Ob)- [JHS]

Subfamily: Limenitidinae*Genus: Limenitis*

- archippus* (Cramer) VICEROY -ABCD- [JHS]
arthemis arthemis (Drury) WHITE ADMIRAL -C- [JHS]
arthemis astyanax (Fabricius) RED-SPOTTED PURPLE -A(Ob)B(Ob)C- [JHS, KHS]

Subfamily: Apaturinae*Genus: Asterocampa*

- clyton* (Boisduval & LeConte) TAWNY EMPEROR -BC- [JHS]

Subfamily: Satyrinae*Genus: Cercyonis*

- pegala* (Fabricius) COMMON WOOD NYMPH -ABCF- [JHS]

Genus: Coenonympha

- tullia* Müller COMMON RINGLET -A(Ob)CF- [WHE, JHS]

Genus: Enodia

- anthon* Clark NORTHERN PEARLY EYE -AB(Ob)CF- [JHS]

Genus: Megisto

- cymela* (Cramer) LITTLE WOOD SATYR -A(Ob)B(Ob)C- [JHS]

Genus: Satyrodes

- appalachia* (Chermock) APPALACHIAN BROWN -BC(Ob)- [JHS]
eurydice (Linnaeus) EYED BROWN -B(Ob)C(Ob)- [JHS]

Subfamily: Danainae*Genus: Danaus*

- plexippus* (Linnaeus) MONARCH -A(Ob)B(Ob)C- [JHS]

SUPERFAMILY: BOMBYCOIDEA**Family: Lasiocampidae****Subfamily: Macromphaliinae**

*Genus: Tolype**laricis* (Fitch) LARCH LAPPET MOTH -BC- [JHS, KHS]*velleda* (Stoll) LARGE TOLYPE -BC- [JHS, KHS]**Subfamily: Gastropachinae***Genus: Phylloidesma**americana* (Harris) LAPPET MOTH -F- [DFS, KHS]**Subfamily: Lasiocampinae***Genus: Malacosoma**americanum* (Fabricius) EASTERN TENT CATERPILLAR -C- [JHS, KHS]*disstria* Hübner FOREST TENT CATERPILLAR -C- [DFS, JHS, KHS]**Family: Apatelodidae***Genus: Apatelodes**torrefacta* (J.E. Smith) SPOTTED APATELODES -BC- [JHS, GV, KHS]*Genus: Olceclostera**angelica* (Grote) THE ANGEL -D- [ALP]**Family: Saturniidae****Subfamily: Citheroniinae***Genus: Anisota**senatoria* (J.E. Smith) -BC- [JDL, KHS]*virginiensis* (Drury) -C- [JHS]*Genus: Dryocampa**rubicunda* (Fabricius) ROSY MAPLE MOTH -BC- [KHS]**Subfamily: Hemileucinae***Genus: Automeris**io* (Fabricius) IO MOTH -B(Ob)CE- [KHS]**Subfamily: Saturniinae***Genus: Actias**luna* (Linnaeus) LUNA MOTH -C- [KHS]*Genus: Antheraea**polyphemus* (Cramer) POLYPHEMUS MOTH -BC(Ob)- [DFS, KHS]*Genus: Callosamia**promethea* (Drury) PROMETHEA MOTH -C- [JHS]

Genus: Hyalophora

cecropia (Linnaeus) CECROPIA MOTH -C- [JHS]

Family: Sphingidae**Subfamily: Sphinginae***Genus: Ceratomia*

amyntor (Geyer) ELM SPHINX -BC- [DFS, KHS]

undulosa (Walker) WAVED SPHINX -BC- [JHS, KHS]

Genus: Dolba

hyloeus (Drury) PAWPAW SPHINX -E- [KHS]

Genus: Lathoe

juglandis (J.E. Smith) WALNUT SPHINX -B- [JHS, KHS]

Genus: Lapara

bombycoides Walker NORTHERN PINE SPHINX -BC- [DFS, JHS, KHS]

Genus: Manduca

quinquemaculata (Haworth) -CD- [JHS]

sexta (Linnaeus) CAROLINA SPHINX -F- [KHS]

Genus: Pachysphinx

modesta (Harris) BIG POPLAR SPHINX -B(Ob)C- [DFS, JHS, KHS]

Genus: Paonias

excaecatus (J.E. Smith) BLINDED SPHINX -BC- [DFS, JHS, KHS]

myops (J.E. Smith) SMALL-EYED SPHINX -C- [DFS, JHS, KHS]

Genus: Smerinthus

cerisyi Kirby ONE-EYED SPHINX -F- [KHS, KZ]

jamaicensis (Drury) TWIN-SPOTTED SPHINX -BC- [JHS, KHS]

Genus: Sphinx

chersis (Hübner) GREAT ASH SPHINX -C- [KHS, KZ]

drupiferarum J.E. Smith WILD CHERRY SPHINX -C- [JHS]

eremitus (Hübner) HERMIT SPHINX -C- [DFS, JHS, KHS, KZ]

gordius Cramer APPLE SPHINX -C- [JHS]

kalmiae J.E. Smith LAUREL SPHINX -C- [DFS, JHS, KHS, KZ]

Subfamily: Macroglossinae*Genus: Amphion*

floridensis B.P. Clark NESSUS SPHINX -BC- [JHS]

Genus: Darapsa

myron (Cramer) HOG SPHINX -C- [DFS, JHS, KHS]

pholus (Cramer) AZALEA SPHINX -ABC- [JHS, KHS]

versicolor (Harris) HYDRANGEA SPHINX -F- [KHS]

Genus: Deidamia

inscripta (Harris) LETTERED SPHINX -BC- [JHS, KHS]

Genus: Erinnyis

ello (Linnaeus) ELLO SPHINX -F(P)- [ALP, KHS]

Genus: Eumorpha

achemon (Drury) ACHEMON'S SPHINX -F- [KHS]

fasciata (Sulzer) BANDED SPHINX -F(P)- [ALP]

pandorus (Hübner) PANDORA'S SPHINX -BC- [JHS]

Genus: Hemaris

diffinis (Boisduval) SNOW-BERRY CLEARWING -ABC- [DFS, JHS, KHS]

thysbe (Fabricius) HUMMINGBIRD CLEARWING -AB- [JHS, KHS]

Genus: Hyles

lineata (Fabricius) WHITE-LINED SPHINX -C(P)- [ALP]

Genus: Sphecodina

abbottii (Swainson) ABBOTT'S SPHINX -BC- [JHS]

SUPERFAMILY: NOCTUOIDEA

Family: Notodontidae

Genus: Clostera

albosigma Fitch SIGMOID PROMINENT -ABC- [DFS, JHS, KHS]

apicalis (Walker) RED-MARKED TENT MAKER -E- [KHS]

inclusa (Hübner) ANGLE-LINED PROMINENT -F- [DFS, KHS]

Genus: Dasylophia

thyatroides (Walker) GRAY-PATCHED PROMINENT -F- [KHS]

Genus: Datana

angusii Grote & Robinson ANGUS' DATANA -F- [JDL, KHS]

contracta Walker CONTRACTED DATANA -F- [DFS, KHS]

drexelii Hy. Edwards DREXEL'S DATANA -F- [DFS, KHS]

integerrima (Grote & Robinson) WALNUT CATERPILLAR MOTH -F- [JDL, KHS]

ministra (Drury) YELLOW-NECKED CATERPILLAR -C- [JHS]

perspicua Grote & Robinson SPOTTED DATANA -C- [JHS]

Genus: Ellida

caniplaga (Walker) LINDEN PROMINENT -F- [KHS]

Genus: Furcula

borealis (Guérin - Méneville) WHITE FURCULA -BC- [AS, KHS]

cinerea (Walker) GRAY FURCULA -C- [BC, KHS]

modesta (Hudson) -C- [KHS, GV]

occidentalis (Lintner) -C- [KHS, GV]

Genus: Gluphisia

septentrionis Walker COMMON GLUPHISIA -BC- [KHS]

Genus: Heterocampa

biundata Walker WAVY-LINED HETEROCAMPA -C- [JHS]

guttivitta (Walker) SADDLED PROMINENT -F- [KHS]

obliqua Packard OBLIQUE HETEROCAMPA -C- [DFS, KHS]

umbrata Walker WHITE-BLOTCHED HETEROCAMPA -C- [DFS, JHS, KHS]

Genus: Hyarpax

aurora (J.E. Smith) PINK PROMINENT -F- [KHS]

Genus: Hyperaeschra

georgica (Herrich-Schäffer) GEORGIAN PROMINENT -C- [KHS]

Genus: Lochmaeus

bilineata (Packard) DOUBLE-LINED PROMINENT -CF- [KHS]

manteo Doubleday VARIABLE OAKLEAF CATERPILLAR MOTH -C- [DFS, KHS]

Genus: Macrurocampa

marthesia (Cramer) MOTTLED PROMINENT -BC- [DFS, KHS]

Genus: Nadata

gibbosa (J.E. Smith) WHITE-DOTTED PROMINENT -ABC- [JHS]

Genus: Nerice

bidentata Walker DOUBLE-TOOTHED PROMINENT -B- [KHS]

Genus: Notodonta

simplaria Graef -F- [JDL, KHS]

Genus: Odontosia

elegans (Strecker) ELEGANT PROMINENT -B- [JHS]

Genus: Oligocentria

lignicolor (Walker) WHITE-STREAKED PROMINENT -C- [DFS, JHS, KHS]

semirufescens (Walker) RED-WASHED PROMINENT -F- [DFS, KHS]

Genus: Peridea

angulosa (J.E. Smith) ANGULOSE PROMINENT -BC- [DFS, JHS, KHS]

ferruginea (Packard) CHOCOLATE PROMINENT -F- [KHS]

Genus: Pheosia

rimosa Packard BLACK-RIMMED PROMINENT -BC- [BC, JHS, KHS]

Genus: Schizura

badia (Packard) CHESTNUT SCHIZURA -E- [KHS]

ipomaeae Doubleday MORNING-GLORY PROMINENT -B- [KHS]

leptinoides (Grote) BLACK-BLOTCHED SCHIZURA -F- [KHS]
unicornis (J.E. Smith) UNICORN CATERPILLAR MOTHS -F- [DFS, KHS]

Genus: Symmerista

albifrons (J.E. Smith) WHITE-HEADED PROMINENT -F- [DFS, KHS]
canicosta Franclemont -C- [JDL, KHS]
leucity Franclemont ORANGE-HUMPED MAPLEWORM -C- [KHS]

Family: Arctiidae

Subfamily: Lithosiinae

Genus: Clemensia

albata Packard LITTLE WHITE LICHEN MOTHS -F- [KHS]

Genus: Crambidia

casta (Packard) PEARLY-WINGED LICHEN MOTHS -C- [KHS]
pallida Packard PALE LICHEN MOTHS -CE- [DFS, KHS]

Genus: Eilema

bicolor (Grote) BICOLORED MOTHS -F- [KHS]

Genus: Hypoprepia

fucosa Hübner PAINTED LICHEN MOTHS -BC- [DFS, AS, KHS]
miniata (Kirby) SCARLET-WINGED LICHEN MOTHS -BC- [DFS, AS, GV, KHS]

Subfamily: Arctiinae

Genus: Apantesis

nais (Drury) NAIS TIGER MOTHS -A- [JDL, JHS]
phalerata (Harris) HARNESSSED MOTHS -AC- [KHS, KZ]

Genus: Cycnia

oregonensis (Stretch) OREGON CYCNIA -C- [DFS, JHS, KHS]
tenera Hübner DELICATE CYCNIA -C- [JHS, KHS]

Genus: Estigmene

acrea (Drury) SALT MARSH MOTHS -C- [JHS]

Genus: Euchaetes

egle (Drury) MILKWEED TUSSOCK MOTHS -F- [KHS]

Genus: Grammia

anna (Grote) ANNA TIGER MOTHS -AC- [AS, GV, KHS, KZ]
arge (Drury) ARGE MOTHS -CE- [AS, KHS]
celia (Saunders) -CE- [JDL, KHS]
figurata (Drury) FIGURED TIGER MOTHS -F- [KHS, GV]
oithona (Strecker) OITHONA TIGER MOTHS -F- [KHS]
parthenice (W. Kirby) PARTHENICE TIGER MOTHS -C- [DFS, KHS]
phyllira (Drury) PHYLLIRA TIGER MOTHS -CE- [AS, BC, JDL, DFS, KHS]

virgo (Linnaeus) VIRGIN TIGER MOTH -BC- [KHS]
virguncula (W. Kirby) VIRGIN TIGER MOTH -A- [KHS]
williamsii (Dodge) WILLIAMS' TIGER MOTH -ABC- [DFS, JHS]

Genus: Halysidota

tessellaris (J.E. Smith) BANDED TUSSOCK MOTH -C- [JHS, KHS]

Genus: Haploa

clymene (Brown) CLYMENE MOTH -BC- [JDL, JHS, KHS]
colona (Hübner) COLONA HAPLOA -F- [JDL, KHS]
confusa (Lyman) CONFUSED HAPLOA -F- [KHS]
contigua (Walker) THE NEIGHBOUR -AC- [AS, KHS]
lecontei (Guérin-Méneville) LECONTE'S HAPLOA -A- [BC, KHS]
reversa (Stretch) REVERSED HAPLOA -ABCEF- [AS, GV, KHS, KZ]

Genus: Holomelina

aurantiaca (Hübner) ORANGE HOLOMELINA -AC- [JHS, KHS]
ferruginosa (Walker) RUSTY HOLOMELINA -ABC- [AS, KHS]
laeta (Guérin-Méneville) JOYFUL HOLOMELINA -F- [KHS]

Genus: Hyphantria

cunea (Drury) FALL WEBWORM MOTH -C- [DFS, KHS]

Genus: Lophocampa

caryae Harris HICKORY TUSSOCK MOTH -BC- [JHS, KHS]
maculata Harris SPOTTED TUSSOCK MOTH -F- [KHS]

Genus: Phragmatobia

assimilans Walker LARGE RUBY TIGER MOTH -F- [KHS]
fuliginosa (Linnaeus) RUBY TIGER MOTH -C- [KHS]
lineata Newman & Donahue LINED RUBY TIGER MOTH -C- [DFS, KHS]

Genus: Platarctia

parthenos (Harris) ST. LAWRENCE TIGER MOTH -E- [AHR]

Genus: Pyrrharctia

isabella (J.E. Smith) ISABELLA TIGER MOTH -BC- [JHS, KHS]

Genus: Spilosoma

congrua Walker AGREEABLE TIGER MOTH -C- [KHS, GV]
dubia (Walker) DUBIOUS TIGER MOTH -F- [KHS]
latipennis Stretch PINK-LEGGED TIGER MOTH -BC- [JHS, KHS]
virginica (Fabricius) YELLOW WOOLY BEAR [DFS, JHS, GV, KHS]

Subfamily: Ctenuchinae*Genus: Cisseps*

fulvicollis (Hübner) YELLOW-COLLARED SCAPE MOTH -ABC- [KHS]

Genus: Ctenucha

virginica (Charpentier) VIRGINIA CTENUCHA -C- [JHS, KHS]

Family: Lymantriidae

Genus: Dasychira

basiflava (Packard) YELLOW-BASED TUSSOCK MOTH -C- [JHS]

obliquata (Grote & Robinson) STREAKED TUSSOCK MOTH -C- [KHS]

Genus: Orgyia

definita Packard DEFINITE TUSSOCK MOTH -B- [KHS]

leucostigma plagiata (Walker) WHITE-MARKED TUSSOCK MOTH -C- [KHS]

Genus: Lymantria

dispar (Linnaeus) GYPSY MOTH -ABC- [JHS, KHS]

Family: Noctuidae

Subfamily: Herminiinae

Genus: Bleptina

caradrinalis Guenée BENT-LINED OWLET -C- [KHS]

Genus: Chytolita

morbidalis (Guenée) MORBID OWLET -F- [KHS]

petrealis Grote -F- [KHS]

Genus: Idia

aemula Hübner COMMON IDIA -ABCE- [BK, DFS, KHS]

americanalis (Guenée) AMERICAN IDIA -BC- [KHS]

concisa Walker -C- [KHS]

denticulalis (Harvey) -F- [KHS]

diminuendis (Barnes & McDunnough) ORANGE-SPOTTED IDIA -F- [DFS, KHS]

forbesi (French) -F- [KHS]

julia (Barnes & McDunnough) -F- [KHS]

lubricalis (Geyer) GLOSSY BLACK IDIA -CE- [DFS, KHS]

rotundalis (Walker) ROTUND IDIA -E- [DFS, KHS]

scobialis (Grote) SMOKY IDIA -F- [KHS]

Genus: Lascoria

ambigualis (Walker) AMBIGUOUS MOTH -E- [KHS]

Genus: Macrochilo

absorptalis (Walker) SLANT-LINED OWLET -F- [KHS]

litophora (Grote) -F- [DFS, KHS]

louisiana (Forbes) -F(Ob) [KHS]

orciferalis Walker -C- [JDL, KHS]

Genus: Palthis

angulalis (Hübner) DARK SPOTTED PALTHIS -BC- [DFS, KHS]

asopialis (Guenée) FAINT-SPOTTED PALTHIS -F- [KHS]

Genus: Phalaenophana

pyramusalis (Walker) DARK-BANDED OWLET -C- [KHS]

Genus: Phalaenostola

hanhami (J.B. Smith) -F- [KHS]

larentioides Grote BLACK-BANDED OWLET -AC- [DFS, KHS]

metonalis (Walker) PALE EPIDELTA [KHS]

Genus: Redectis

vitrea (Grote) -F- [KHS]

Genus: Renia

discoloralis Guenée DISCOLORED RENIA -BCE- [DFS, JDL, KHS]

factiosalis (Walker) -F- [JDL, KHS]

flavipunctalis (Geyer) -C- [JDL, KHS]

sobrialis (Walker) SOBER RENIA -F- [JDL, KHS]

Genus: Tetanolita

mynesalis (Walker) SMOKY TETANOLITA -F- [KHS]

Genus: Zanclognatha

cruralis (Guenée) EARLY ZANCLOGNATHA -F- [JDL, KHS]

jacchusalis (Walker) YELLOWISH ZANCLOGNATHA -BC- [KHS]

laevigata (Grote) VARIABLE ZANCLOGNATHA -B- [KHS]

lituralis (Hübner) -F- [JDL, KHS]

ochreipennis (Grote) WAVY-LINED ZANCLOGNATHA -C- [DFS, KHS]

pedipilalis (Guenée) GRAYISH ZANCLOGNATHA -F- [KHS]

protumnusalis (Walker) -C- [KHS]

Subfamily: Rivulinae*Genus: Colobochoyla*

interpuncta (Grote) YELLOW-LINED OWLET -F- [KHS]

Genus: Rivula

propinqualis Guenée SPOTTED GRASS MOTH -C- [KHS]

Subfamily: Hypenodinae*Genus: Dyspyralis*

illocata Warren -F- [JDL, KHS]

nigella (Strecker) -F- [KHS]

puncticosta (J.B. Smith) -A- [KHS]

Genus: Hypenodes

caducus (Dyar) LARGE HYPENODES -F- [KHS]

fractilinea (J.B. Smith) BROKEN-LINED HYPENODES -EF- [JDL, KHS]

Genus: Nigetia

formosalis Walker THIN-WINGED OWLET -F- [KHS]

Subfamily: Hypeninae

Genus: *Bomolocha*

- abalienalis* (Walker) WHITE-LINED BOMOLOCHA -F- [KHS]
atomaria J.B. Smith -C- [DFS, KHS]
baltimoralis (Guenée) BALTIMORE BOMOLOCHA -AB- [DFS, KHS]
bijugalis (Walker) DIMORPHIA BOMOLOCHA -F- [DFS, KHS]
deceptalis (Walker) DECEPTIVE BOMOLOCHA -C- [KHS]
edictalis (Walker) LARGE BOMOLOCHA -F- [KHS]
madefactalis (Guenée) GRAY-EDGED BOMOLOCHA -C- [KHS]
manalis (Walker) FLOWING-LINE BOMOLOCHA -F- [KHS]
palparia (Walker) MOTTLED BOMOLOCHA -F- [KHS]

Genus: *Hypena*

- humuli* Harris -F- [KHS]

Genus: *Ophiuche*

- minualis* (Guenée) -F- [KHS]

Genus: *Phytometra*

- ernestinana* (Blanchard) ERNESTINE'S MOTH -C- [KHS, KZ]

Genus: *Plathypena*

- scabra* (Fabricius) GREEN CLOVERWORM MOTH -CE- [DFS, GV, KHS]

Genus: *Spargaloma*

- sexpunctata* Grote SIX-SPOTTED GRAY -F- [KHS]

Subfamily: Catocalinae

Genus: *Anomis*

- erosa* Hübner YELLOW SCALLOP MOTH -F- [KHS]

Genus: *Anticarsia*

- gemmatalis* Hübner VELVETBEAN CATERPILLAR MOTH -F- [JDL, KHS]

Genus: *Argyrostromis*

- anilis* (Drury) SHORT-LINED CHOCOLATE -BC- [DFS, GV, KHS]

Genus: *Ascalapha*

- odorata* (Linnaeus) BLACK WITCH -BF- [JHS, KHS]

Genus: *Caenurgina*

- crassiuscula* (Haworth) CLOVER LOOPER MOTH -C- [JHS, KHS]
erectea (Cramer) FORAGE LOOPER MOTH -BC- [KHS, GV]

Genus: *Calyptra*

- canadensis* (Bethune) CANADIAN OWLET -B- [JHS, KHS, JSW]

Genus: *Catocala*

amatrix (Hübner) THE SWEETHEART -C- [KHS]
amica (Hübner) THE GIRLFRIEND -BC- [DFS, KHS]
blandula Hulst CHARMING UNDERWING -BC- [JHS, KHS]
briseis Edwards BRISEIS UNDERWING -AB- [KHS]
cara Guenée DARLING UNDERWING -BE- [KHS]
cerogama Guenée YELLOW-BANDED UNDERWING -B- [KHS]
coccinata Grote SCARLET UNDERWING -C- [DFS, KHS]
concumbens Walker PINK UNDERWING -BC- [KHS]
connubialis Guenée CONNUBIAL UNDERWING -F- [DFS, KHS]
crataegi Saunders HAWTHORN UNDERWING -F- [DFS, KHS]
grynea (Cramer) WOODY UNDERWING -ABC- [KHS]
habilis Grote HABILIS UNDERWING -F- [KHS]
ilia (Cramer) ILIA UNDERWING -ABC- [DFS, KHS]
judith Strecker JUDITH'S UNDERWING -F- [KHS]
lineella Grote -BC- [DFS, JDL, KHS]
meskei Grote MESKE'S UNDERWING -C- [BC, KHS]
minuta Edwards LITTLE UNDERWING -F- [KHS]
mira Grote WONDERFUL UNDERWING -B- [KHS]
neogama (J.E. Smith) THE BRIDE -F- [KHS]
obscura Strecker OBSCURE UNDERWING -F- [KHS]
palaeogama Guenée OLDWIFE UNDERWING -F- [KHS]
parta Guenée MOTHER UNDERWING -AC- [BC, KHS]
piatrix Grote THE PENITENT -A- [KHS]
praeclara Grote & Robinson PRAECLARA UNDERWING -F- [JHS, KHS]
relicta Walker WHITE UNDERWING -C- [KHS]
residua Grote RESIDUA UNDERWING -F- [KHS]
retracta Grote YELLOW-GRAY UNDERWING -C- [KHS]
serena Edwards SERENE UNDERWING -F- [BL, KHS]
similis Edwards SIMILAR UNDERWING -C- [BC, KHS]
sordida Grote SORDID UNDERWING -C- [KHS]
ultronia (Hübner) ULTRONIA UNDERWING -BC- [DFS, KHS]
unijuga Walker ONCE-MARRIED UNDERWING -C- [KHS]

Genus: Cissusa

spadix (Cramer) BLACK-DOTTED BROWN -BF- [JDL, KHS]

Genus: Drasteria

grandirena (Haworth) FIGURE 7 MOTH -C- [DFS, AS, KHS]

Genus: Euparthenos

nubilis (Hübner) LOCUST UNDERWING -BC- [KHS]

Genus: Isogona

tenuis (Grote) -AC- [KHS]

Genus: Ledaea

perditalis (Walker) LOST OWLET -C- [KHS]

Genus: Melipotis

indomita (Walker) INDOMITABLE MELIPOTIS -F- [DFS, KHS]

jucunda Hübner MERRY MELIPOTIS -F- [KHS]

Genus: Metalectra

discalis (Grote) COMMON FUNGUS MOTH -CE- [KHS]

quadrisignata (Walker) FOUR-SPOTTED FUNGUS MOTH -F- [KHS]

Genus: Mocis

latipes (Guenée) SMALL MOCIS -C- [KHS, KZ]

Genus: Pangrapta

decoralis Hübner DECORATED OWLET -C- [DFS, KHS]

Genus: Panopoda

carneicosta Guenée BROWN PANOPODA -F- [KHS]

rufimargo (Hübner) RED-LINED PANOPODA -CEF- [DFS, JHS, GV, KHS]

Genus: Parallelia

bistriaris Hübner MAPLE LOOPER MOTH -BC- [JHS, KHS]

Genus: Phoebria

atomaris Hübner COMMON OAK MOTH -E- [DFS, KHS]

Genus: Plusiodonta

compressipalpis Guenée MOONSEED MOTH -F- [DFS, KHS]

Genus: Scoliopteryx

libatrix (Linnaeus) THE HERALD -CEF- [AS, DFS, KHS]

Genus: Zale

aeruginosa (Guenée) GREEN-DUSTED ZALE -AC- [KHS]

duplicata (Bethune) -BC- [KHS]

galbanata (Morrison) -B- [KHS]

helata (J.B. Smith) BROWN-SPOTTED ZALE -B- [KHS]

horrida Hübner HORRID ZALE -B- [JHS, KHS]

lunata (Drury) LUNATE ZALE -AC- [KHS, GV, KZ]

lunifera (Hübner) BOLD-BASED ZALE -B- [KHS]

minerea (Guenée) COLOURFUL ZALE -EF- [KHS]

obliqua (Guenée) OBLIQUE ZALE -F- [DFS, KHS]

submediana McDunnough -B- [KHS]

undularis (Drury) BLACK ZALE -B- [KHS]

unilineata (Grote) ONE-LINED ZALE -B- [KHS]

Subfamily: Plusiinae

Genus: Abrostola

urentis Guenée -C- [JDL, KHS]

Genus: Allagrapha

aerea (Hübner) UNSPOTTED LOOPER MOTH -F- [KHS]

Genus: Anagrapha

falcifera (Kirby) CELERY LOOPER MOTH -BCE- [AS, KHS]

Genus: Autographa

ampla (Walker) LARGE LOOPER MOTH -F- [DFS, KHS]

precationis (Guenée) COMMON LOOPER MOTH -BC- [DFS, KHS]

pseudogamma (Grote) -C- [KHS]

Genus: Chrysanympha

formosa (Grote) FORMOSA LOOPER MOTH -F- [KHS]

Genus: Ctenoplusia

oxygramma (Geyer) SHARP-STIGMA LOOPER MOTH -C- [KHS]

Genus: Diachrysia

aereoides (Grote) DARK-SPOTTED LOOPER MOTH -F- [KHS]

balluca Geyer -C- [JHS, KHS]

Genus: Eosporopteryx

thyatyroides (Guenée) PINK-PATCHED LOOPER MOTH -F- [KHS]

Genus: Megalographa

biloba (Stephens) BILOBED LOOPER MOTH -C- [KHS]

Genus: Plusia

contexta Grote CONNECTED LOOPER MOTH -B- [KHS]

venusta Walker WHITE-STREAKED LOOPER MOTH -F- [KHS]

Genus: Pseudeva

purpurigera (Walker) STRAIGHT-LINED LOOPER MOTH -B- [KHS]

Genus: Pseudoplusia

includens (Walker) SOYBEAN LOOPER MOTH -C- [KHS]

Genus: Rachiplusia

ou (Guenée) GRAY LOOPER MOTH -C- [KHS]

Genus: Syngrapha

epigaea (Grote) -F- [KHS]

octoscripta (Grote) -F- [DFS, KHS]

rectangula (Kirby) SALT-AND-PEPPER LOOPER MOTH -E- [DFS, KHS]

viridisigma (Grote) -F- [KHS]

Genus: Trichoplusia

ni (Hübner) CABBAGE LOOPER MOTH -C- [DFS, KHS]

Subfamily: Euteliinae*Genus: Eutelia*

pulcherrima (Grote) BEAUTIFUL EUTELIA -F- [KHS]

Genus: Marathyssa

- basalis* Walker LIGHT MARATHYSSA -C- [KHS]
inficita (Walker) DARK MARATHYSSA -F- [DFS, KHS]

Genus: Paectes

- oculatrix* (Guenée) EYED PAECTES -B- [KHS]

Subfamily: Sarrothripinae*Genus: Baileya*

- australis* (Grote) SMALL BAILEYA -B- [JDL, KHS]
dormitans (Guenée) SLEEPING BAILEYA -F- [KHS]
doubledayi (Guenée) DOUBLEDAY'S BAILEYA -F- [DFS, KHS]

Genus: Characoma

- nilotica* (Rogenhofer) -CF- [KHS]

Genus: Nycteola

- cinereana* Neumoegen & Dyar -F- [JDL, KHS]
frigidana (Walker) -F- [KHS]

Subfamily: Nolinae*Genus: Meganola*

- minuscula* (Zeller) CONFUSED MEGANOLA -F- [KHS]
spodia Franclemont -F- [JDL, KHS]

Subfamily: Acontiinae*Genus: Anterastris*

- teratophora* (Herrich-Schäffer) THE GRAY MARVEL -C- [KHS]

Genus: Capis

- curvata* Grote -F- [KHS]

Genus: Cerma

- cerintha* (Treitschke) TUFTED BIRD-DROPPING MOTH -F- [KHS]

Genus: Cobubatha

- dividua* (Grote) -F- [JDL, KHS]

Genus: Homophoberia

- apicosa* (Haworth) BLACK WEDGE SPOT -F- [KHS]
crinata Morrison WATER-LILY MOTH -F- [KHS]

Genus: Hyperstrotia

- secta* (Grote) BLACK-PATCHED GRAYLET -F- [DFS, KHS]
villificans (Barnes & McDunnough) -F- [KHS]

Genus: Leuconycta

diptheroides (Guenée) GREEN LEUCONYCTA -C- [KHS]
lepidula (Grote) -F- [KHS]

Genus: Lithacodia

albidula (Guenée) -F- [DFS, KHS]
muscosula (Guenée) LARGE MOSSY LITHACODIA -CE- [DFS, KHS]
musta (Grote & Robinson) SMALL MOSSY LITHACODIA -F- [DFS, KHS]

Genus: Maliattha

synochitis (Grote & Robinson) BLACK-DOTTED LITHACODIA -C- [KHS]

Genus: Pseudeustrotia

carneola (Guenée) PINK-BARRED LITHACODIA -CF- [DFS, KHS]

Genus: Tarachidia

candefacta (Hübner) OLIVE-SHADED BIRD DROPPING MOTH -BC- [KHS]
erastrioides (Guenée) SMALL BIRD-DROPPING MOTH -D1- [BC, JHS, KHS]

Subfamily: Pantheinae

Genus: Charadra

deridens (Guenée) THE LAUGHER -CF- [DFS, AS, KHS]

Genus: Colocasia

propinquilinea (Grote) CLOSEBANDED YELLOWHORN -F- [DFS, KHS]

Genus: Panthea

acronyctoides (Walker) BLACK ZIGZAG -C- [JDL, KHS]
furcilla (Packard) EASTERN PANTHEA -B- [AS, KHS]
pallescens McDunnough -B- [KHS]

Genus: Raphia

frater Grote THE BROTHER -F- [KHS]

Subfamily: Acronictinae

Genus: Acronicta

afflicta Grote AFFLICTED DAGGER MOTH -CE- [DFS, JDL, KHS]
albarufa Grote -F- [DFS, KHS]
americana (Harris) AMERICAN DAGGER MOTH -C- [DFS, KHS]
connecta Grote CONNECTED DAGGER MOTH -F- [KHS]
dactylina Grote FINGERED DAGGER MOTH -E- [DFS, KHS]
exilis Grote EXILED DAGGER MOTH -F- [KHS]
fragilis (Guenée) FRAGILE DAGGER MOTH -F- [KHS]
grisea Walker GRAY DAGGER MOTH -F- [KHS]
haesitata (Grote) HESITANT DAGGER MOTH -F- [DFS, KHS]
hamamelis Guenée WITCHAZEL MOTH -F- [DFS, KHS]
hasta Guenée SPEARED DAGGER MOTH -CE- [DFS, JDL, KHS]
hastulifera (J.E. Smith) -C- [DFS, KHS]
impleta Walker YELLOW-HAIRED DAGGER MOTH -C- [KHS]

impressa Walker -CF- [KHS]
increta Morrison UNCLEAR DAGGER MOTH -F- [JDL, KHS]
innotata Guenée UNMARKED DAGGER MOTH -F- [DFS, KHS]
interrupta Guenée INTERRUPTED DAGGER MOTH -CF- [KHS]
lepusculina Guenée COTTONWOOD DAGGER MOTH -F- [KHS]
lithospila Grote STREAKED DAGGER MOTH -F- [KHS]
lobeliae Guenée LOBELIA DAGGER MOTH -C- [JHS]
longa Guenée LONG-WINGED DAGGER MOTH -F- [KHS]
modica Walker MEDIUM DAGGER MOTH -F- [DFS, KHS]
morula Grote & Robinson OCHRE DAGGER MOTH -CF- [DFS, KHS]
noctivaga Grote NIGHT-WANDERING DAGGER MOTH -F- [KHS]
oblinita (J.E. Smith) SMEARED DAGGER MOTH -CF- [KHS]
ovata Grote OVATE DAGGER MOTH -F- [DFS, KHS]
radcliffei (Harvey) RADCLIFFE'S DAGGER MOTH -F- [DFS, KHS]
sperata Grote -F- [KHS]
superans Guenée SPLENDID DAGGER MOTH -F- [DFS, KHS]
tristis J.B. Smith -C- [DFS, JDL, GV, KHS]
tritona (Hübner) TRITON'S DAGGER MOTH -F- [DFS, KHS]
vinnula (Grote) DELIGHTFUL DAGGER MOTH -F- [KHS]
vulpina (Grote) -F- [KHS]

Genus: Agriopodes

fallax (Herrich-Schäffer) THE GREEN MARVEL [KHS]

Genus: Harrisimemna

tresignata (Walker) HARRIS 3 SPOT -B- [DFS, JHS, KHS]

Genus: Simyra

henrici (Grote) HENRY'S MARSH MOTH -F- [KHS]

Subfamily: Agaristinae

Genus: Alypia

langtoni Couper LANGTON'S FORESTER -C- [AS, GV, KHS]
octomaculata (Fabricius) EIGHT-SPOTTED FORESTER -C- [AS, KHS]

Genus: Eudryas

grata (Fabricius) BEAUTIFUL WOOD NYMPH -BC- [DFS, AS, KHS]
unio (Hübner) PEARLY WOOD-NYMPH -F- [KHS]

Genus: Psychomorpha

epimenis (Drury) GRAPEVINE EPIMENIS -C- [KHS, GV]

Subfamily: Amphipyriinae

Genus: Achatodes

zeae (Harris) ELDER SHOOT BORER MOTH -B- [JHS, KHS]

Genus: Amolita

fessa Grote FEEBLE GRASS MOTH -E- [KHS]

Genus: Amphipoea

- americana* (Speyer) AMERICAN EAR MOTH -ABC- [DFS, KHS]
interoceanica (J.B. Smith) INTEROCEANIC EAR MOTH -C- [DFS, KHS]
velata (Walker) VEILED EAR MOTH -C- [KHS]

Genus: Amphipyra

- glabella* (Morrison) -F- [KHS]
pyramidoides Guenée COPPER UNDERWING -ABC- [AS, KHS]
tragopoginis (Clerck) MOUSE MOTH -C- [DFS, JDL, KHS]

Genus: Apamea

- alia* (Guenée) C -F- [KHS]
amputatrix (Fitch) YELLOW-HEADED CUTWORM -CE- [DFS, GV, KHS]
apamiformis (Guenée) -CE- [JDL, KHS]
cariosa (Guenée) -B- [KHS]
devastator (Brace) GLASSY CUTWORM MOTH -AC- [KHS]
dubitans (Walker) DOUBTFUL AGROPERNIA -AC- [KHS]
helva (Grote) YELLOW THREE-SPOT -F- [KHS]
lignicolora (Guenée) WOOD-COLORED APAMEA -B- [KHS]
nigrior (J.B. Smith) -C- [KHS]
niveivenosa (Grote) -F- [KHS]
ophiogramma (Esper) -F- [KHS]
remissa indocilis (Walker) IGNORANT APAMEA -F- [KHS]
sordens (Hufnagel) BORDERED APAMEA -F- [KHS]
unanimitis (Hübner) -F- [JDL, KHS]
verbascoides (Guenée) -F- [DFS, KHS]
vulgaris (Grote & Robinson) COMMON APAMEA -F- [DFS, KHS]
vultuosa (Grote) AIRY APAMEA -F- [DFS, KHS]

Genus: Archanara

- laeta* (Morrison) -F- [KHS]
oblonga (Grote) OBLONG SEDGE BORER MOTH -C- [KHS]
subflava (Grote) -F- [KHS]

Genus: Balsa

- labecula* (Grote) WHITE-BLOTCHED BALSA -C- [JDL, KHS]
malana (Fitch) MANY-DOTTED APPLEWORM MOTH -F- [KHS]
tristrigella (Walker) THREE-LINED BALSA -F- [KHS]

Genus: Bellura

- obliqua* (Walker) CATTAIL BORER MOTH -F- [KHS]

Genus: Callopietria

- cordata* (Ljungh) SILVER SPOTTED FERN MOTH -AC- [DFS, KHS]
mollissima (Guenée) PINK-SHADED FERN MOTH -F- [KHS]

Genus: Celaena

- reniformis* (Grote) -B- [KHS]

Genus: Chortodes

defecta (Grote) -C- [JDL, KHS]

inquinata (Guenée) -F- [DFS, KHS]

Genus: Chytonix

palliatricula (Guenée) CLOAKED MARVEL -BC- [DFS, KHS]

ruperti Franclemont -C- [DFS, JDL, KHS]

sensilis Grote -C- [DFS, KHS]

Genus: Condica

sutor (Guenée) THE COBBLER -F- [KHS]

vecors (Guenée) DUSKY GROUNDLING -F- [KHS]

videns (Guenée) -B- [KHS]

Genus: Cosmia

calami (Harvey) AMERICAN DUN-BAR -BC- [DFS, AS, KHS]

Genus: Crambodes

talidiformis Guenée VERBENA MOTH -F- [KHS]

Genus: Elaphria

festivoides (Guenée) FESTIVE MIDGET -C- [KHS]

versicolor (Grote) VARIEGATED MIDGET -C- [KHS]

Genus: Enargia

decolor (Walker) -F- [KHS, GV]

infumata (Grote) -C- [JDL, KHS]

mephisto Franclemont -F- [KHS]

Genus: Euplexia

benesimilis McDunnough AMERICAN ANGLE SHADES -A- [KHS]

Genus: Galgula

partita Guenée WEDGLING -C- [KHS]

Genus: Hydraecia

micacea (Esper) POTATO STEM BORER -C- [KZ]

Genus: Hyppa

xylinoides (Guenée) COMMON HYPPA -C- [DFS, JHS, KHS]

Genus: Iodopepla

u-album (Guenée) -B- [KHS]

Genus: Ipimorpha

pleonectusa Grote EVEN-LINED SALLOW -C- [KHS]

Genus: Lemmeria

digitalis (Grote) -F- [JKM, KHS]

Genus: Macronoctua

onusta Grote IRIS BORER MOTH -F- [KHS]

Genus: Magusa

orbifera (Walker) ORBED NARROW-WING -C- [KHS, GV]

Genus: Meropleon

ambifusca (Newman) -CE- [JDL, KHS]

diversicolor (Morrison) -F- [KHS]

Genus: Nedra

ramosula (Guenée) GRAY HALF-SPOT -CF- [BC, DFS, KHS]

Genus: Ogdoconta

cinereola (Guenée) COMMON PINKBAND -BCE- [KHS]

Genus: Oligia

bridghami (Grote & Robinson) BRIDGHAM'S BROCADE -CF- [KHS]

chlorostigma (Harvey) -F- [DFS, KHS]

exhausta (J.B. Smith) -F- [DFS, KHS]

fractilinea (Grote) BROKEN-LINED BROCADE -CE- [DFS, KHS]

mactata (Guenée) -F- [JDL, KHS]

modica (Guenée) BLACK-BANDED BROCADE -CE- [KHS]

obtusa (J.B. Smith) -BC- [KHS, KZ]

Genus: Papaipema

arctivorens Hampson NORTHERN BURDOCK BORER MOTH -AF- [KHS]

aweme (Lyman)

baptisiae (Bird) -F- [KHS]

birdi (Dyar) -AC- [KHS]

eupatorii (Lyman) -C- [KHS, GV]

furcata (J.B. Smith) ASH TIP BORER MOTH -C- [KHS]

impecuniosa (Grote) -F- [KHS]

inquaesita (Grote & Robinson) SENSITIVE FERN BORER MOTH -EF- [KHS]

leucostigma (Harris) COLUMBINE BORER MOTH -ABC- [JDL, KHS]

nebris (Guenée) STALK BORER MOTH -F- [KHS]

pterisii Bird BRACKEN BORER MOTH -A- [JDL, KHS]

rigida (Grote) RIGID SUNFLOWER BORER MOTH -F- [KHS]

rutila (Guenée) -F- [ELQ, KHS]

speciosissima (Grote & Robinson) OSMUNDA BORER MOTH -EF- [ELQ, JDL, KHS]

unimoda (J.B. Smith) -BF- [ELQ, JDL, KHS]

Genus: Parastichtis

suspecta (Hübner) -F- [KHS]

Genus: Phlogophora

iris Guenée OLIVE ANGLE SHADES -F- [KHS]

periculosa Guenée BROWN ANGLE SHADES -ABC- [KHS]

Genus: Phosphila

miselioides (Guenée) SPOTTED PHOSPHILA -B- [KHS]

Genus: Plagiomimicus

pityochromus Grote BLACK-BARRED BROWN -F- [KHS]

Genus: Platyperigea

meralis (Morrison) -C- [BC, JCER]

Genus: Proxenus

miranda (Grote) MIRANDA MOTH -BC- [DFS, JHS, KHS]

Genus: Spartiniphaga

inops (Grote) -B- [JDL, KHS]

panatela (J.B. Smith) -F- [JDL, KHS]

Genus: Spodoptera

frugiperda (J.E. Smith) FALL ARMYWORM MOTH -F- [KHS]

ornithogalli (Guenée) YELLOW-STRIPED ARMYWORM [KHS]

Genus: Trachea

delicata (Grote) -F- [KHS]

Genus: Xylomoia

chagnoni Barnes & McDunnough -F- [DFS, KHS]

Subfamily: Cuculliinae*Genus: Adita*

chionanthi (J.E. Smith) FRINGE-TREE SALLOW -F- [KHS]

Genus: Anathix

aggressa (J.B. Smith) -C- [KHS]

puta (Grote & Robinson) PUTA SALLOW -C- [JDL, KHS]

ralla (Grote & Robinson) DOTTED SALLOW -F- [KHS]

Genus: Brachyloimia

algens (Grote) -F- [KHS]

Genus: Calophasia

lunula (Hufnagel) TOADFLAX CATERPILLAR -C- [KHS]

Genus: Catabena

lineolata Walker FINE-LINED SALLOW -F- [KHS]

Genus: Chaetagleae

sericea (Morrison) SILKY SALLOW -E- [KHS]

tremula (Harvey) TREMBLING SALLOW -ACE- [DFS, JDL, KHS, KZ]

Genus: Copivaleria

grotei (Morrison) GROTE'S SALLOW -F- [KHS]

Genus: Cucullia

asteroides Guenée THE ASTEROID -C- [KHS]
convexipennis Grote & Robinson BROWN-HOODED OWLET -F- [KHS]
florea Guenée -F- [DFS, KHS]
postera Guenée -F- [DFS, KHS]
speyeri Lintner SPEYER'S CUCULLIA -F- [KHS]

Genus: Epiglaea

decliva (Grote) SLOPPING SALLOW -C- [KHS]

Genus: Eucirroedia

pampina (Guenée) SCALLOPED SALLOW -AC- [KHS, GV]

Genus: Eupsilia

cirripalea Franclemont -F- [JDL, KHS]
morrisoni (Grote) MORRISON'S SALLOW -C- [DFS, JHS, KHS]
sidus (Guenée) SIDUS' SALLOW -F- [JDL, KHS]
tristigmata (Grote) THREE-SPOTTED SALLOW -C- [KHS]

Genus: Feralia

jocosa (Guenée) JOCOSE SALLOW -F- [KHS]
major J.B. Smith MAJOR SALLOW -F- [KHS]

Genus: Hillia

iris (Zetterstedt) -F- [KHS, KZ]

Genus: Homoglaea

hircina Morrison GOAT SALLOW -F- [KHS]

Genus: Homohadena

badistriga (Grote) BROWN-LINED SALLOW -F- [DFS, KHS]
infixa (Walker) BROAD-LINED SALLOW -C- [DFS, KHS]

Genus: Litholomia

napaea (Morrison) -F- [KHS]

Genus: Lithomoia

germana (Morrison) -C- [KHS]

Genus: Lithophane

amanda (J.B. Smith) -F- [KHS]
antennata (Walker) ASHEN PINION -C- [KHS]
bethunei (Grote & Robinson) BETHUNE'S PINION -F- [KHS]
disposita Morrison -E- [KHS]
fagina Morrison -C- [DFS, KHS]
grotei (Riley) GROTE'S PINION -F- [KHS]
hemina Grote HEMINA PINION -F- [KHS]
innominata (J.B. Smith) NAMELESS PINION -E- [KHS]
laticinerea Grote -F- [KHS]
lepida Grote -F- [KHS]
oriunda Grote -E- [KHS]

patefacta (Walker) -E- [KHS]
petulca Grote WANTON PINION -E- [DFS, KHS]
pexata Grote -F- [KHS]
semiusta Grote -F- [JDL, KHS]
unimoda (Lintner) DOWDY PINION -C- [DFS, KHS]

Genus: Metaxaglaea

inulta (Grote) UNSATED SALLOW -A- [KHS]

Genus: Oncocnemis

riparia Morrison -BC- [DFS, JDL, KHS]

Genus: Psaphida

resumens Walker FIGURE-EIGHT SALLOW -F- [KHS]
rolandi (Grote) ROLAND'S SALLOW -F- [KHS, GV]
styracis (Guenée) FAWN SALLOW -C- [AHR, GV, KHS]

Genus: Psectraglaea

carnosa (Grote) -F- [KHS]

Genus: Pyreferra

ceromatica (Grote) -F- [KHS]
citrombra Franclemont -F- [KHS]
hesperidago (Guenée) MUSTARD SALLOW -F- [KHS]
pettiti (Grote) -F- [KHS]

Genus: Sunira

bicolorago (Guenée) BICOLORED SALLOW -ABCE- [JHS, KHS]

Genus: Sutyna

privata (Walker) -C- [KHS]

Genus: Xanthia

togata (Esper) PINK-BARRED SALLOW -F- [KHS]

Genus: Xylena

curvimacula (Morrison) DOT-AND-DASH SWORDGRASS MOTHS -A- [KHS]
nupera (Litner) AMERICAN SWORDGRASS MOTHS -F- [KHS]

Subfamily: Hadeninae

Genus: Achatia

distincta Hübner DISTINCT QUAKER -E- [KHS]

Genus: Aletia

oxygala (Grote) -A- [KHS]

Genus: Anhimella

contrahens (Walker) -F- [JDL, KHS]

Genus: Crocigrapta

normani (Grote) NORMAN'S QUAKER -F- [KHS]

Genus: Discestra

trifolii (Hufnagel) THE NUTMEG -C- [KHS]

Genus: Egira

dolosa (Grote) -F- [JDL, KHS]

Genus: Faronta

diffusa (Walker) WHEAT HEAD ARMYWORM -C- [DFS, KHS]

Genus: Hadenia

capsularis (Guenée) CAPSULE MOTH -F- [DFS, KHS]

Genus: Himella

fidelis Grote INTRACTABLE QUAKER -F- [KHS]

Genus: Homorthodes

furfurata lindseyi (Benjamin) -C- [KHS]

furfurata (Grote) SCURFY QUAKER -C- [DFS, JDL, KHS]

Genus: Lacanobia

subjuncta (Grote & Robinson) SPECKLED CUTWORM MOTH -C- [DFS, KHS]

Genus: Lacinipolia

anguina (Grote) SNAKY ARCHES -AC- [KB, KHS]

lorea (Guenée) BRIDLED ARCHES -F- [KHS]

meditata (Grote) THE THINKER -C- [DFS, JDL, KHS]

olivacea (Morrison) OLIVE ARCHES -BF- [KHS]

renigera (Stephens) BRISTLY CUTWORM MOTH -BC- [DFS, KHS]

teligera (Morrison) -F- [KHS]

vicina (Grote) -C- [DFS, JDL, KHS]

Genus: Leucania

adjuta (Grote) -F- [JDL, KHS]

commoides Guenée -C- [DFS, KHS]

inermis (Forbes) UNARMED WAINSCOT -CF- [DFS, KHS]

insueta Guenée -AC- [KHS]

lapidaria (Grote) -F- [JDL, KHS]

linda Franclemont -C- [KHS]

linita Guenée -C- [KHS]

multilinea Walker MANY-LINED WAINSCOT -F- [DFS, KHS]

phragmitidicola Guenée PHRAGMATIDICOLA WAINSCOT -C- [KHS]

pseudargyria Guenée FALSE WAINSCOT -BC- [DFS, KHS]

ursula (Forbes) -C- [KHS]

Genus: Melanchra

adjuncta (Guenée) HITCHED ARCHES -C- [KHS]

picta (Harris) ZEBRA CATERPILLAR MOTH -F- [KHS]

Genus: Morrisonia

- confusa* (Hübner) CONFUSED QUAKER -F- [KHS]
evicta (Grote) BICOLORED WOODGRAIN -F- [KHS]
latex (Guenée) FLUID ARCHES -F- [KHS]

Genus: Nephelodes

- minians* Guenée BRONZED CUTWORM MOTH -CD- [AS, KHS]

Genus: Orthodes

- crenulata* (Butler) RUSTIC QUAKER -C- [DFS, KHS]
cynica Guenée CYNICAL QUAKER -CF- [KHS]

Genus: Orthosia

- alurina* (J.B. Smith) GRAY QUAKER -F- [KHS]
garmani (Grote) GARMAN'S QUAKER -E- [JDL, KHS]
hibisci (Guenée) SPECKLED GREEN FRUITWORM MOTH -CD- [KHS, SB]
revicta (Morrison) SUBDUED QUAKER -F- [KHS]
rubescens (Walker) RUBY QUAKER -F- [KHS]
segregata (J.B. Smith) -B- [JDL, KHS]

Genus: Polia

- detracta* (Walker) DISPARAGED ARCHES [DFS, JDL, KHS]
goodelli (Grote) GOODELL'S ARCHES -F- [KHS]
imbrifera (Guenée) CLOUDY ARCHES -F- [KHS]
nimbosa (Guenée) STORMY ARCHES -F- [DFS, KHS]
obscura (J.B. Smith) -B- [KHS]
purpurissata (Grote) PURPLE ARCHES -F- [KHS]

Genus: Protorthodes

- incincta* (Morrison) -C- [BC, KHS]
oviduca (Guenée) RUDDY QUAKER -F- [KHS]

Genus: Pseudaletia

- unipuncta* (Haworth) ARMYWORM MOTH -BC- [KHS, GV]

Genus: Pseudorthodes

- vecors* (Guenée) SMALL BROWN QUAKER -B- [KHS]

Genus: Sideridis

- maryx* (Guenée) THE MAROONWING -BC- [JHS, KHS]
rosea (Harvey) THE ROSEWING -C- [KHS]

Genus: Spiramater

- grandis* (Guenée) -B- [JHS, KHS]
lutra (Guenée) -CF- [DFS, JDL, KHS]

Genus: Trichoclea

- artesta* (J.B. Smith) -F- [KHS]

Genus: Tricholita

signata (Walker) SIGNATE QUAKER -C- [DFS, GV, KHS]

Genus: Trichordestra

legitima (Grote) STRIPED GARDEN CATERPILLAR MOTH -F- [DFS, KHS]

tacoma (Strecker) -F- [KHS]

Genus: Ulolonche

culea (Guenée) SHEATHED QUAKER -BC- [KHS, GV]

modesta (Morrison) -C- [DFS, KHS]

Subfamily: Noctuinae

Genus: Abagrotis

alternata (Grote) GREATER RED DART -ACE- [KHS]

variata (Grote) -F- [KHS]

Genus: Actebia

fennica (Tauscher) BLACK ARMYWORM DART -F- [KHS]

Genus: Agrotis

gladiaria Morrison SWORDSMAN DART -F- [KHS]

ippsilon (Hufnagel) IPSILON DART -C- [JHS, GV, KHS]

stigmata Morrison -F- [KHS]

venerabilis Walker VENERABLE DART -C- [KHS]

vetusta (Walker) OLD MAN DART -ABC- [AS, GV, KHS]

volubilis Harvey VOLUBLE DART -F- [KHS]

Genus: Anaplectoides

prasina (Denis & Schiffermüller) -C- [JHS]

pressus (Grote) DAPPLED DART -F- [DFS, KHS]

Genus: Anomogyna

dilucida (Morrison) -CE- [JDL, KHS, KZ]

Genus: Aplectoides

condita (Guenée) -F- [KHS]

Genus: Cerastis

tenebrifera (Walker) REDDISH SPECKLED DART -F- [KHS]

Genus: Cryptocala

acadiensis (Bethune) CATOCALINE DART -C- [DFS, KHS]

Genus: Diarsia

rubifera (Grote) -F- [KHS]

Genus: Euagrotis

forbesi Franclemont -C- [DFS, KHS]

illapsa (Walker) -C- [KHS]

Genus: Eucoptocnemis

fimbriaris (Guenée) FRINGED DART -C- [DFS, KHS, KZ]

Genus: Eueretagrotis

attenta (Grote) ATTENTIVE DART -F- [DFS, KHS]

sigmoides (Guenée) SIGMOID DART -F- [DFS, KHS]

Genus: Eurois

astricta Morrison -C- [KHS]

occulta (Linnaeus) THE GREAT GREY DART -B- [KHS]

Genus: Euxoa

albipennis (Grote) -ABC- [KHS]

aurulenta (J.B. Smith) -F- [KHS]

bostoniensis (Grote) BOSTON DART -F- [KHS]

campestris (Grote) -F- [KHS]

declarata (Walker) -C- [JDL, KHS]

detersa (Walker) RUBBED DART -AB- [DFS, GV, KHS]

fumalis (Grote) -F- [KHS]

manitobana McDunnough -D- [KHS, GV]

messoria (Harris) REAPER DART -C- [KHS]

obeliscoides (Guenée) -F- [DFS, KHS]

ochrogaster (Guenée) RED-BACKED CUTWORM -AC- [KHS, GV]

perpolita (Morrison) POLISHED DART -AC- [KHS]

pleuritica (Grote) -F- [DFS, KHS]

quebecensis (J.B. Smith) -F- [DFS, JDL, KHS]

redimicula (Morrison) FILLET DART -F- [KHS]

scandens (Riley) WHITE CUTWORM MOTH -C- [DFS, KHS]

tessellata (Harris) TESSELLATE DART -C- [DFS, KHS]

velleripennis (Grote) FLEECE-WINGED DART -F- [KHS]

Genus: Feltia

herilis (Grote) MASTERS DART -C- [DFS, KHS]

jaculifera (Guenée) DINGY CUTWORM MOTH -C- [DFS, KHS, GV]

subgothica (Haworth) SUBGOTHIC DART -BCF- [KHS]

triosa (Lintner) -F- [KHS]

Genus: Graphiphora

augur (Fabricius) -C- [KHS]

Genus: Heptagrotis

phyllophora (Grote) -A- [KHS]

Genus: Noctua

pronuba (Linnaeus) LARGE YELLOW UNDERWING -C- [KHS]

Genus: Ochropleura

implecta Lafontaine FLAME-SHOULDERED DART -B- [KHS]

Genus: Paradiarsia

littoralis (Packard) -C- [KHS]

Genus: Peridroma

saucia (Hübner) VARIEGATED CUTWORM MOTH -C- [JHS, KHS]

Genus: Protolampra

brunneicollis (Grote) BROWN-COLLARED DART -CE- [DFS, KHS]

Genus: Rhynchagrotis

anchocelioides (Guenée) -BC- [BC, KHS]

brunneipennis (Grote) -F- [JDL, KHS]

cupida (Grote) -E- [JDL, KHS]

Genus: Spaelotis

clandestina (Harris) CLANDESTINE DART -AC- [BC, KHS]

Genus: Trichosilia

geniculata (Grote & Robinson) KNEE-JOINT DART -F- [KHS]

manifesta (Morrison) -F- [KHS]

mollis (Walker) -A- [KHS]

Genus: Ufeus

plicatus Grote -F- [KHS]

Genus: Xestia

badicollis (Grote) NORTHERN VARIABLE DART -F- [KHS]

badinodis (Grote) PALE-BANDED DART -F- [DFS, KHS]

bicarnea (Guenée) PINK-SPOTTED DART -BCF- [KHS, GV]

bugrai Koçak -F- [KHS]

dolosa Franclemont GREATER BLACK-LETTER DART -C- [AS, KHS]

c-nigrum (Linnaeus) -C- [KHS]

normaniana (Grote) NORMAN'S DART -ABC- [KHS]

smithii (Snellen) SMITH'S DART -CEF- [KHS]

tenuicula (Morrison) -F- [KHS]

Subfamily: Heliothinae

Genus: Helicoverpa

zea (Boddie) CORN EARWORM MOTH -C- [JHS, KHS]

Genus: Pyrrhia

exprimens (Walker) PURPLE-LINED SALLOW -F- [KHS]

Genus: Rhodoezia

aurantiago (Guenée) ORANGE SALLOW -CE- [KHS]

Genus: Schinia

arcigera (Guenée) ARCIGERA FLOWER MOTH -BC- [JHS, KHS, KZ]

florida (Guenée) PRIMROSE MOTH -C- [KHS]

lynx (Guenée) LYNX FLOWER MOTH -F- [KHS]

- nundina* (Drury) GOLDENROD FLOWER MOTH -B- [JDL, KHS]
obscurata Strecker -F- [KHS]
rivulosa (Guenée) RAGWEED FLOWER MOTH -F- [KHS]
sanguinea (Geyer) GLORIOUS FLOWER MOTH -ABCE- [AHR, DFS, JHS, KHS]
thoreau (Grote & Robinson) THOREAU'S FLOWER MOTH -F- [KHS]
trifascia Hübner THREE LINED FLOWER MOTH -C- [KHS]

ORDER: DIPTERA**Family: Trichoceridae***Genus: Trichocera**spp.* -C- [JHS]**Family: Tipulidae***Genus: Ctenophora**spp.* -A- [JHS]*Genus: Epiphragma**fasciapennis* (Say) -B- [JHS]*Genus: Limonia (Metalimnobia)**spp.* -C- [JHS]*Genus: Pedicia**spp.* -B- [JHS]*Genus: Tipula (Pterelachisus)**spp.* -B- [JHS]*Genus: Tipula (Nippotipula)**spp.* -B- [JHS]**Family: Ptychopteridae***Genus: Bittacomorpha**clavipes* (Fabricius) -B- [DCC, JHS]**Family: Culicidae***Genus: Aedes**hendersoni* Cockerell [DMW *et al.*]*Genus: Anopheles**quadrimaculatus* Say -C- [JHS]*Genus: Culex**pipiens?* Linnaeus -C- [JHS]

*Genus: Psorophora (Psorophora)**ciliata* (Fabricius) -F- [JHS]**Family: Chironomidae****Family: Simuliidae****Family: Bibionidae***Genus: Bibio**spp.* -C- [JHS]*Genus: Dilophus**species 1* -B- [DCC]*species 2* -B- [DCC]**Family: Mycetophilidae****Family: Sciaridae****Family: Ceratopogonidae****Family: Anisopodidae***Genus: Sylvicola**spp.* -AB- [JHS]**Family: Stratiomyidae***Genus: Odontomyia**virgo* (Wiedemann) -F- [JHS]*Genus: Ptecticus**sackenii* Williston -C- [JHS]*trivittatus* (Say) -DE- [JHS]*Genus: Sargus**decorus* Say -B- [JHS]*Genus: Stratiomys**spp.* -B- [JHS]**Family: Tabanidae***Genus: Atylotus**bicolor* (Wiedemann) -B- [JHS]*Genus: Chrysops**aberrans* Philip -AB- [JHS, HJT]*aestuans* Van der Wulp -B- [JHS]

ater Macquart [HJT]
brunneus Hine -B- [JHS]
cincticornis Walker -ABC- [JHS, HJT]
cuclux Whitney -AB- [JHS]
delicatulus Osten Sacken -AB- [JHS]
excitans Walker -ABCE- [JHS, HJT]
frigidus Osten Sacken -B- [JHS, HJT]
indus Osten Sacken -BC- [JHS, HJT]
montanus Osten Sacken [HJT]
niger Macquart [HJT]
pikei Whitney -A- [JHS]
puddicus Osten Sacken -B- [JHS]
sackeni Hine -BC- [JHS]
stritatus Osten Sacken -AB- [JHS]
univittatus Macquart -ABC- [JHS, HJT]
vittatus Weidemann -AB- [JHS]

Genus: Hybomitra

epistates (Osten Sacken) -B- [JHS]
illota (Osten Sacken) -BC- [JHS]
lasiophthalma (Macquart) -ABC- [JHS]
lurida Fallén -A- [JHS]
microcephala (Osten Sacken) -ABD- [JHS]
trepida (McDunnough) -C- [JHS, HJT]

Genus: Stonemyia

rasa (Loew) -F- [JHS]

Genus: Tabanus

americanus Forster [HJT]
atratus Fabricius -CF- [JHS, GV]
calens Linnaeus -BCF- [JHS]
catenatus Walker [JHS]
limbatinevris Macquart -ABC- [JHS, HJT]
lineola Fabricius -A- [JHS]
marginalis Fabricius -C- [JHS, HJT]
pumilus Macquart -B- [JHS]
quinquevittatus Wiedemann [HJT]
reinwardtii Wiedemann -BF- [JHS]
similis Macquart -BCD- [JHS, HJT]
stygus Say -C- [JHS]
vivax? Osten Sacken [JHS]

Family: Asilidae

Subfamily: Leptogastrinae

Genus: Leptogaster

spp. -ABCD- [JHS]

Subfamily: Laphriinae*Genus: Atomosia**puella* (Wiedemann) -ABC- [JHS]*Genus: Cerotainia**albipilosa* Curran -C- [GES]*macrocera* (Say) -A- [JHS]*Genus: Laphria**canis* Williston -D- [SB]*divisor* (Banks) -A- [JHS]*flavicollis* Say -ABC- [JHS]*grossa* (Fabricius) -A- [JHS]*index* McAtee -ABC- [JHS]*janus* McAtee -B- [JHS]*posticata* Say -ABC- [JHS]*sacrator* Walker -ABC- [JHS]*sericea* Say -ABC- [JHS]*thoracica* Fabricius -BC- [JHS]*winnemana* McAtee -C- [SB]**Subfamily: Laphystiinae***Genus: Laphystia**flavipes* Coquillett -D- [EMF]**Subfamily: Stenopogoninae***Genus: Cyrtopogon**falto* (Walker) -ABC- [JHS]*lutatius* (Walker) -B- [JHS]*species 1* -A- [JHS]*Genus: Dioctria**baumhaueri* Meigen -ABC- [EMF]*Genus: Holopogon**oriens* Martin -A- [JHS]*phaeonotus* Loew -BCE- [JHS]*vockerothi* Martin -ABCE- [JHS]**Subfamily: Stichopogoninae***Genus: Holcocephala**abdominalis* (Say) -BCE- [JHS]*calva* (Loew) -BC- [GES, JHS]*Genus: Lasiopogon**opaculus* (Loew) -B- [RAC, JHS]

tetragrammus (Loew) -CE- [RAC, JHS]

Genus: Stichopogon

argenteus (Say) -CE- [JHS, SAM]

trifasciatus (Say) -ACEF- [JHS]

Subfamily: Asilinae

Genus: Asilus

sericeus Say -ABC- [JHS]

Genus: Efferia

albibarbis (Macquart) -B- [JHS]

Genus: Machimus

snowii (Hine) -B- [EMF]

notatus (Wiedemann) -ABC- [EMF, JHS]

novaescotiae (Macquart) -A- [EMF, JHS]

sadyates (Walker) -ABC- [EMF, JHS]

Genus: Neoitamus

flavofemoratus (Hine) -ABC- [JHS]

orphne (Walker) -B- [JHS]

Genus: Neomochtherus

auricomus (Hine) -ABC- [EMF]

Genus: Proctacanthella

cacopiloga (Hine) -ABCE- [GES, JHS]

Genus: Proctacanthus

hinei Bromley -ABCE- [SAM, JHS]

milberti Macquart -ABC- [JHS]

Genus: Promachus

bastardii (Macquart) -AC- [JHS]

Family: Rhagionidae

Genus: Chrysopilus

ornatus (Say) -ABC- [JHS]

quadratus (Say) -BC- [JHS]

Genus: Rhagio

mystaceus (Macquart) -ABC- [DCC]

Genus: Symphoromyia

spp. -B- [DCC]

Family: Xylophagidae

- nitidus* Johnson -B- [DCC] *Genus: Rachicerus*
- species 1* -B- [DCC] *Genus: Xylophagus*
- Family: Therevidae**
- spp.* -ABC- [DCC, JHS] *Genus: Ozodiceromyia*
- spp.* -ABC- [JHS] *Genus: Spiriverpa*
- spp.* -C- [JHS] *Genus: Thereva*
- Family: Acroceridae**
- spp.* [JHS] *Genus: Ogcodes*
- Family: Mydidae**
- clavatus* (Drury) -ABC- [JHS] *Genus: Mydas*
- Family: Bombyliidae**
- Subfamily: Phthiriinae**
- spp.* -C- [JHS] *Genus: Poecilognathus*
- Subfamily: Toxophorinae**
- calvus* Loew -AB- [DCC] *Genus: Geron (Empidigeron)*
- subauratus* Loew -AC- [DCC, JHS] *Genus: Geron (Geron)*
- vitripennis* Loew -AC- [DCC]
- macer* Loew -BC- [JHS] *Genus: Systropus*
- Subfamily: Bombyliinae**
- major* Linnaeus -C- [JHS] *Genus: Bombylius*

*Genus: Sparnopolius**anomalus?* Painter -F- [DCC]*Genus: Systoechus**species 1* -AC- [DCC, JHS]*vulgaris* Loew -ABD- [JHS]**Subfamily: Tomomyzinae***Genus: Metacosmus**mancipennis* Coquillett -B- [DCC]**Subfamily: Anthracinae***Genus: Anthrax**albofasciatus* group -A- [DCC]*irroratus irroratus* Say -ABC- [DCC]*Genus: Chrysanthrax**species 1* -F- [DCC]*Genus: Dipalta**banksi* Johnson -CD- [JHS]*Genus: Exoprosopa**fascipennis* (Say) -AC- [DCC]*Genus: Hemipenthes**spp.* -ABC- [DCC, JHS]*Genus: Paravilla**species 1* -BC- [DCC]*Genus: Villa**alternata* (Say) -A- [JHS]*lateralis* (Say) -C- [JHS]*Genus: Xenox**tigrinus* (De Geer) -ABEF- [DCC]**Family: Empididae***Genus: Hilara**species 1* -B- [DCC]*Genus: Microphorus**spp.* -B- [DCC]*Genus: Platypalpus**species 1* -B- [DCC]

species 2 -B- [DCC]

Genus: Rhamphomyia

daria Walker -AB- [JHS]

species 1 -B- [DCC]

Genus: Syneches

species 1 -B- [DCC]

Family: Dolichopodidae

Genus: Argyra

albicans Loew -B- [DCC]

bimaculata Van Duzee -B- [DCC]

Genus: Asyndetus

species 1 -B- [DCC]

Genus: Chrysotus

species 1 -B- [DCC]

species 2 -AB- [DCC]

species 3 -E- [DCC]

species 4 -AB- [DCC]

species 5 -B- [DCC]

Genus: Dolichopus

affinis Walker -ABC- [DCC]

albiciliatus Loew -B- [DCC]

albicoxa Aldrich -BC- [DCC]

correus Steyskal -B- [DCC]

laciniatus Coquillett -B- [DCC]

laticornis Loew -B- [DCC]

variabilis Loew -B- [DCC]

Genus: Gymnopternus

spp. -ABC- [DCC]

Genus: Hercostomus?

species 1 -CE- [DCC]

Genus: Mesorhaga

species 1 -BC- [DCC]

Genus: Neurigona

spp. -BC- [DCC]

Genus: Paraclius

species 1 -B- [DCC]

Genus: Pelastoneurus

species 1 -A- [DCC]

Genus: Peloropeodes

species 1 -B- [DCC]

Genus: Sciapus

spp. -AB- [DCC]

Genus: Sympycnus

species 1 -AC- [DCC]

Family: Lonchopteridae

Genus: Lonchoptera

furcata (Fallén) -C- [KB, DCC]

Family: Phoridae

Genus: Gymnophora

luteiventris Schmitz [BVB]

Family: Pipunculidae

Subfamily: Chalarinae

Genus: Chalarus

spp. -BC- [JHS]

Genus: Verrallia (Verrallia)

virginica Banks -BC- [JHS]

Subfamily: Nephrocerinae

Genus: Nephrocerus

spp. -ABC- [JHS]

Subfamily: Pipunculinae

Genus: Cephalops

pallidivittipes De Meyer -BC- [JHS]

varius (Cresson) -AC- [JHS]

Genus: Cephalosphaera

brevis (Cresson) -BC- [JHS]

Genus: Eudorylas

spp. -ABC- [JHS]

Genus: Pipunculus

basilicus Skevington -A- [JHS]

elegantulus Williston -C- [JHS]
fuscus Loew -B- [JHS]
hertzogi Rapp -B- [JHS]
houghi Kertész -B- [JHS]
luteicornis Cresson -A- [JHS]
torus Skevington -C- [JHS]
viduus Cresson -ABC- [JHS]

Genus: Tomosvaryella

spp. -BC- [JHS]

Family: Syrphidae

Subfamily: Microdontinae

Genus: Microdon

globosus (Fabricius) -AB- [JHS]
ocellaris? Curran -ABC- [JHS]
tristis Loew -ABC- [JHS]

Subfamily: Syrphinae

Genus: Allograpta

obliqua (Say) -C- [JRV]

Genus: Chrysotoxum

derivatum Walker -AB- [DCC, JHS]
pubescens Loew -BC- [DCC, JHS]

Genus: Dasysyrphus

venustus (Meigen) -A- [JHS]

Genus: Didea

fuscipes Loew -C- [JHS]

Genus: Epistrophe (Epistrophella)

emarginata (Say) -A- [JHS]

Genus: Epistrophe (Epistrophe)

nitidicollis (Meigen) -B- [JHS]
xanthostoma (Williston) -A- [JHS]

Genus: Eupeodes (Eupeodes)

americanus (Wiedemann) or *pomus* (Curran) -ABC- [JHS]
latifasciatus (Maquart) -C- [JHS]
perplexus (Osburn) -B- [JHS]
pomus (Curran) -B- [JHS]

Genus: Ferdinandea

buccata (Loew) -C- [DCC, JHS]

Genus: Melangyna (Melangyna)

fisherii (Walton) -B- [JHS]

Genus: Melangyna (Meligrammia)

triangulifera (Zetterstedt) -B- [JHS]

Genus: Ocyptamus

costatus (Say) -C- [JHS]

fuscipennis (Say) -ABC- [JHS]

Genus: Paragus (Paragus)

angustistylus Vockeroth -ABC- [DCC]

Genus: Paragus (Pandasyopthalmus)

haemorrhous Meigen -ABC- [JHS]

Genus: Platycheirus

confusus Curran -BC- [JHS]

granditarsis (Forster) -C- [JRV]

hyperboreus (Staeger) -AC- [JHS]

obscurus (Say) -C- [JRV]

quadratus (Say) -A- [JHS]

rosarum (Fabricius) -B- [JHS]

Genus: Sphaerophoria

bifurcata? Knutson -A- [JHS]

brevipilosa Knutson -C- [JRV]

contigua Macquart -ABCE- [JHS]

philanthus (Meigen) -BC- [JHS]

Genus: Spilomyia

longicornis Loew -C- [JHS]

sayi? Goot -C- [JHS]

Genus: Syrphus

knabi? Shannon -ABC- [JHS]

opinator Osten Sacken -C- [JRV]

rectus Osten Sacken -B- [JHS]

ribesii (Linnaeus) -AB- [JHS]

torvus Osten Sacken -C- [JHS]

Genus: Toxomerus

geminatus (Say) -ABC- [JHS]

marginatus (Say) -ABCE- [JHS]

Genus: Xanthogramma

flavipes (Loew) -B- [JRV]

Subfamily: Eristalinae

*Genus: Blera**nalis* (Macquart) -ABC- [JHS]*badia* (Walker) -B- [JHS]*Genus: Brachiopa (Hammerschmidtia)**ferruginea* (Fallén) -A- [JHS]*Genus: Brachypalpus**oarus* (Walker) -C- [JHS]*Genus: Chalcosyrphus**chalybeus* (Wiedemann) -BCF- [JHS]*nemorum?* (Fabricius) -B- [JHS]*piger* (Fabricius) -ABC- [DCC]*Genus: Cheilosia**spp.* -C- [JHS]*Genus: Eristalis**arbustorum* (Linnaeus) -B- [JHS]*dimidiatus* Wiedemann -ABC- [JHS]*tenax* (Linnaeus) -B- [JHS]*transversus* Wiedemann -ABC- [JHS]*Genus: Eumerus**species 1* -A- [DCC]*Genus: Helophilus**fasciatus* Walker -ABC- [JHS]*laetus* Loew -B- [JHS]*latifrons* Loew -A- [JHS]*obscurus* Loew -B- [JHS]*relictus* (Curran & Fluke) -B- [JHS]*stipatus* (Walker) -C- [JHS]*Genus: Heringia**salax* (Loew) -ABC- [JHS]*Genus: Lejota?**spp.* -AB- [JHS]*Genus: Mallota**posticata* (Fabricius) -AB- [JHS]*Genus: Milesia**virginiensis* (Drury) -F- [JHS]*Genus: Myolepta**nigra* Loew -A- [JHS]

Genus: Neoascia

globosa (Walker) -B- [JHS]
metallica (Williston) -AB- [JHS]

Genus: Orthonevra

pulchella (Williston) -BE- [DCC, JHS]

Genus: Pelecocera

pergandei (Williston) -C- [JRV]

Genus: Pipiza

femoralis Loew -AB- [JHS]

Genus: Rhingia

nasica Say -BC- [JHS]

Genus: Sericomomyia

lata (Coquillett) -A- [JHS]

Genus: Somula

decora Macquart -C- [JHS]

Genus: Sphecomyia

vittata (Weidemann) -B- [JHS]

Genus: Sphegina

campanulata Robertson -B- [DCC]

Genus: Sphiximorpha

signifera (Loew) -AC- [JHS]

Genus: Syritta

pipiens (Linnaeus) -C- [JHS]

Genus: Temnostoma

balyras (Walker) -AB- [DCC]
barberi Shannon -AB- [DCC]
vespiforme (Linnaeus) -B- [DCC, JHS]

Genus: Teuchocnemis

lituratus (Loew) -ABC- [JHS]

Genus: Trichopsomyia

spp. -B- [JHS]

Genus: Tropidia

quadrata (Say) -AB- [JHS]

Genus: Volucella

vesicularia (Curran) -ABC- [JHS]

Genus: Xylota

annulifera Bigot -B- [JHS]
bicolor Loew -AC- [JHS]
ejuncida Say -B- [JHS]
hinei (Curran) -B- [JHS]
quadrifasciata Loew -B- [JHS]
tuberculata (Curran) -C- [JHS]

Family: Conopidae*Genus: Myopa*

species 1 -B- [DCC]

Genus: Physcocephala

furcillata (Williston) -AB- [JHS]

Genus: Physoconops

sylvosus (Williston) -C- [DCC]

Genus: Stylogaster

spp. -C- [JHS]

Genus: Thecophora

spp. -AB- [DCC]

Genus: Zodion

fulvifrons Say -BF- [DCC]
intermedium Banks -AC- [DCC]

Family: Psilidae*Genus: Loxocera*

cylindrica Say -C- [KB]

Genus: Psila

species 1 -B- [DCC]
species 2 -B- [DCC]
species 3 -B- [DCC]

Family: Lonchaeidae*Genus: Lonchaea*

species 1 -B- [DCC]

Family: Otitidae*Genus: Delphinia*

picta (Fabricius) -AF- [DCC]

Genus: Euxesta

notata (Wiedemann) -BC- [KB, DCC]

Genus: Herina

ruficeps Wulp -AB- [DCC]

Genus: Pseudotephritis

species 1 -B- [DCC]

Family: Platystomatidae

Genus: Rivellia

flavimana Loew -B- [DCC]

pallida Loew -B- [DCC]

variabilis Loew -B- [DCC]

Family: Tephritidae

Genus: Dioxyna

sororcula (Wiedemann) -F- [KB]

Genus: Euaresta

species 1 -C- [DCC]

Genus: Eurosta

solidaginsis (Fitch) -C- [GV]

species 1 -BCF- [DCC]

Genus: Eutreta

species 1 -B- [DCC]

Genus: Stenopa

vulnerata (Loew) -A- [DCC]

Genus: Strauzia

longipennis (Wiedemann) -F- [SAM]

Genus: Xanthomyia

platyptera (Loew) -F- [AN]

Family: Micropezidae

Genus: Compsobata (Compsobata)

species 1 -B- [DCC]

Genus: Rainieria

antennaepes (Say) -BC- [DCC, JHS]

Family: Pyrgotidae

Genus: Pyrgota

undata Wiedemann -C- [WB]

valida (Harris) -BC- [JHS]

Genus: Sphecomyiella

Family: Piophilidae

subdola (Johnson) -B- [DCC]

Genus: Mycetaulus

latipes (Meigen) -AB- [DCC]

Genus: Protopiophila

Family: Clusiidae

lateralis (Walker) -B- [DCC]

Genus: Clusia

apiculatus Malloch -B- [DCC]

Genus: Clusiodes

johnsoni Malloch -B- [DCC]

melanostomus group ♀'s -A- [DCC]

Genus: Sobarocephala

atricornis Sabrosky & Steyskal -B- [DCC]

latifacies Sabrosky & Steyskal -B- [DCC]

latifrons (Loew) -AB- [DCC]

Family: Agromyzidae

Family: Anthomyzidae

spp. [DCC]

Genus: Anthomyza

spp. [DCC]

Genus: Ischnomyia

Family: Milichiidae

spp. [DCC]

Genus: Pholeomyia

Family: Sciomyzidae

species 1 -BC- [DCC]

Genus: Dictya

arcuata (Loew) -AB- [DCC]

Genus: Euthycera

Genus: Limnia

species 1 -B- [DCC]

Genus: Oidematops

ferrugineus Cresson -AB- [SAM]

Genus: Pherbellia

spp. -E- [SAM]

Genus: Renocera

species 1 -B- [DCC]

Genus: Sepedon

spp. -BCE- [SAM]

Genus: Tetanocera

clara Loew -AB- [SAM]

species 1 -B- [DCC]

Family: Sepsidae

Genus: Meroplius

stercorarius (Robineau-Desvoidy) -B- [DCC]

Genus: Nemapoda

nitidula (Fallén) -AB- [DCC]

Genus: Sepsis

species 1 -AB- [DCC]

Genus: Themira

spp. [DCC]

Family: Lauxaniidae

Genus: Homoneura (Homoneura)

species 1 -B- [DCC]

Genus: Homoneura (Tarsohomoneura)

species 1 -AB- [DCC]

Genus: Lyciella

spp. [DCC]

Genus: Minettia

lupulina (Fabricius) -C- [KB]

species 1 -B- [DCC]

species 2 -AB- [DCC]

Genus: Poecilominettia

species 1 -AB- [DCC]

Family: Chamaemyiidae*Genus: Chamaemyia**juncorum* (Fallén) -C- [KB]*Genus: Leucopis**spp.* -C- [KB]*Genus: Pseudodinia**antennalis* Malloch -C- [KB]*pruinosa* Melander [DCC]*species 1* -AB- [DCC]**Family: Heleomyzidae***Genus: Neoleria**species 1* -B- [DCC]*Genus: Pseudoleria**species 1* -AB- [DCC]*Genus: Suillia**quinquepunctata* (Say) -C- [SAM]*species 1* -B- [DCC]**Family: Trixocelididae***Genus: Trixoscelis**fumipennis* Melander -C- [KB]**Family: Sphaeroceridae***Genus: Coproica**acutangula* (Zetterstedt) -B- [DCC]*ferruginata* (Stenhammar) -AB- [DCC]*urbana* Richards -AB- [DCC]*Genus: Leptocera**spp.* -ABC- [SAM]*Genus: Lotophila**atra* (Meigen) -B- [DCC]*Genus: Mesosphaerocera**annulicornis* (Malloch) -A- [SAM]*Genus: Minilimosina**parva* (Malloch) -B- [SAM]*Genus: Opalimosina*

mirabilis (Collin) -AB- [SAM]

Genus: Rachispoda

spp. -ABC- [SAM]

Genus: Robustagramma

species 1 -A- [SAM]

Genus: Spelobia

bifrons (Stenhammar) -A- [SAM]

brevipteryx Marshall -AB- [SAM]

clunipes (Meigen) -AB- [SAM]

luteilabris (Rondani) -AB- [SAM]

ochripes (Meigen) -BC- [SAM]

Genus: Telomerina

flavipes (Meigen) -B- [SAM]

orpha Marshall & Rohacek -AB- [SAM]

Family: Chyromyidae

Genus: Gymnochiromyia

concolor (Malloch) -C- [KB]

species 1 -A- [DCC]

Family: Dryomyzidae

Genus: Dryomyza

anilis Fallén -B- [SAM]

Family: Curtonotidae

Genus: Curtonotum

helvum (Loew) -BCEF- [KB, DCC, SAM, JHS]

Family: Drosophilidae

Genus: Chymomyza

amoena (Loew) -C- [KB]

Genus: Leucophenga

varia (Walker) -C- [KB]

Genus: Rhinoleucophenga

obesa (Loew) -C- [KB]

Family: Ephydriidae

Genus: Allotrichoma

species 1 -B- [DCC]

*Genus: Athyroglossa**species 1* -B- [DCC]*Genus: Coenia**species 1* -C- [DCC]*Genus: Ditrichophora**species 1* -C- [DCC]*Genus: Glenanthe**interior* Chillcott [DCC]*Genus: Hydrellia**spp.* [DCC]*Genus: Nostima**spp.* [DCC]*Genus: Notophila (Dichaeta)**spp.* -C- [DCC]*Genus: Notophila (Notophila)**species 1* -B- [DCC]*Genus: Philygria**debilis* Loew [DCC]*punctatonervosa* (Fallén) [DCC]*species 1* -C- [DCC]*Genus: Psilopa**species 1* -C- [DCC]*Genus: Scatella**spp.* [DCC]**Family: Chloropidae***Genus: Chlorops**spp.* [DCC]**Family: Scathophagidae****Family: Muscidae***Genus: Stomoxys**calcitrans* (Linnaeus) -C- [JHS]**Family: Calliphoridae***Genus: Calliphora*

spp. -B- [CC]

Genus: Cynomya

spp. -A- [CC]

Genus: Lucilia

spp. -AB- [CC]

Genus: Phaenicia

spp. -AB- [CC]

Genus: Phormia

spp. -AB- [CC]

Genus: Pollenia

spp. -B- [CC]

Family: Sarcophagidae

Subfamily: Miltogramminae

Genus: Amobia

spp. -AB- [CC]

Genus: Anicia

spp. -ABC- [CC]

Genus: Eumacronychia

species 1 -C- [CC]

Genus: Euphyto

species 1 -B- [CC]

Genus: Metopia

spp. -ABC- [CC]

Genus: Oebalia

aristalis (Coquillett) -A- [CC]

Genus: Phrosinella

spp. -ABC- [CC]

Genus: Senotainia

spp. -A- [CC]

Family: Tachinidae

Genus: Belvosia

borealis Aldrich -AC- [JHS]

*Genus: Compsilura**concinata* (Meigen) -BC- [XS]*Genus: Cylindromyia**spp.* -ABC- [XS]*Genus: Gymnoclytia**spp.* -ABC- [XS]*Genus: Ormia**spp.* -B- [JHS]*Genus: Trichopoda**spp.* -D- [XS]*Genus: Winthemia**spp.* -AC- [XS]*Genus: Xanthomelanodes**spp.* [XS]**Family: Oestridae***Genus: Cephenemyia**phobifer* (Clark) -C- [JHS]*Genus: Cuterebra**cuniculi* (Clark) -C- [JHS]*fontinella* Clark -D- [JHS]**ORDER: SIPHONAPTERA****Family: Pulicidae****Subfamily: Pulicinae****ORDER: HYMENOPTERA****Family: Tenthredinidae***Genus: Allantus**cinctus* (Linnaeus) -A- [LP]*Genus: Aneugmenus**flavipes* (Norton) -A- [LP]*Genus: Caliroa**cerasi* (Linnaeus) -A- [LP]*obsoleta* (Norton) -A- [LP]

*Genus: Metallus**rohweri* (MacGillivray) -A- [LP]*Genus: Taxonus**borealis* (MacGillivray) -A- [LP]**Family: Pergidae***Genus: Acordulecera**spp.* -A- [LP]**Family: Cimbicidae***Genus: Cimbex**americana* Leach ELM SAWFLY -C- [JHS]*Genus: Trichiosoma**triangulum* Kirby -C- [JHS]*Genus: Zараea**inflata* Norton HONEYSUCKLE SAWFLY -AB- [JHS]**Family: Siricidae***Genus: Tremex**columba* (Linnaeus) -A- [JHS]*Genus: Urocerus**cressoni* Norton -CD- [JHS]**Family: Ichneumonidae***Genus: Megarhyssa**macrurus* (Linnaeus) -CF- [JHS]*Genus: Ophion**spp.* -BC- [JHS]*Genus: Thyreodon**atricolor* (Olivier) -ABC- [JHS]*Genus: Trogus**spp.* -D-**Family: Torymidae****Family: Perilampidae***Genus: Euperilampus**triangularis* (Say) -D- [JHS]

Family: Evaniidae*Genus: Hyptia**thoracica* (Blanchard) -C- [DCC]**Family: Eucharitidae***Genus: Pseudometagea**schwarzii* (Ashmead) -C- [JH]*sp. nov.?* -C- [JH]**Family: Pelecinidae***Genus: Pelecinus**polyturator* (Drury) -ABC- [JHS]**Family: Formicidae****Subfamily: Ponerinae***Genus: Amblyopone**pallipes* (Haldeman) -C- [GJU]*Genus: Ponera**pennsylvanica* Buckley -C- [GJU]**Subfamily: Myrmicinae***Genus: Aphaenogaster**fulva-rudis-texana* complex – 2 undescribed species -C- [GJU]*tennesseensis* (Mayr) -C- [GJU]*treatae* Forel -C- [GJU]*Genus: Crematogaster**cerasi* (Fitch) -C- [GJU]*lineolata* (Say) -C- [GJU]*Genus: Formicoxenus**hirticornis* (Emery) -C- [GJU]*provancheri* (Emery) -C- [GJU]*Genus: Leptothorax**ambiguus* Emery -C- [GJU]*longispinosus* Roger -C- [GJU]*muscorum* complex -C- [GJU]*texanus* Wheeler -C- [GJU]*Genus: Monomorium**minimum* (Buckley) -C- [GJU]

*Genus: Myrmecina**americana* Emery -C- [GJU]*Genus: Myrmica**spp.* -C- [GJU]*Genus: Solenopsis**molesta* (Say) -C- [GJU]*Genus: Stenamma**spp.* -C- [GJU]*Genus: Tetramorium**caespitum* (Linnaeus) -C- [GJU]**Subfamily: Dolichoderinae***Genus: Dolichoderus**mariae* Forel -C- [GJU]*plagiatus* (Mayr) -C- [GJU]*taschenbergi* (Mayr) -C- [GJU]*Genus: Dorymyrmex**grandulus* (Forel) -C- [GJU]*Genus: Tapinoma**sessile* (Say) -C- [GJU]**Subfamily: Formicinae***Genus: Acanthomyops**claviger* (Roger) -C- [GJU]*latipes* (Walsh) -C- [GJU]*murphyi* (Forel) -C- [GJU]*Genus: Brachymyrmex**depilis* Emery -C- [GJU]*Genus: Camponotus**americanus* Mayr -C- [GJU]*nearcticus* Emery -C- [GJU]*novaeboracensis* (Fitch) -C- [GJU]*pennsylvanicus* (De Geer) -C- [GJU]*Genus: Formica**exsectoides* Forel -C- [GJU]*fusca* group -C- [GJU]*microgyna* group -C- [GJU]*neogagates* group -C- [GJU]*obscuripes* Forel -BC- [GJU]

pallidefulva group -C- [GJU]

sanguinea group -C- [GJU]

ulkei Emery -C- [GJU]

Genus: Lasius

alienus (Foerster) -C- [GJU]

flavus (Fabricius) -C- [GJU]

nearcticus Wheeler -C- [GJU]

neoniger Emery -C- [GJU]

umbratus (Nylander) -C- [GJU]

Genus: Paratrechina

parvula (Mayr) -C- [GJU]

Genus: Polyergus

lucidus Mayr -C- [GJU]

Genus: Prenolepis

imparis (Say) -C- [GJU]

Family: Chalcididae

Family: Tiphidae

Genus: Myzinum

quinquecinctum (Fabricius) -C- [JHS]

Family: Mutillidae

Genus: Dasymutilla

asopus (Cresson) -C- [JHS]

Family: Scoliididae

Genus: Campsomeris

plumipes confluenta (Say) -BC- [JHS]

Family: Pompilidae

Genus: Ageniella

agenoides (Fox) -A- [LP]

norata Banks -A- [LP]

partita Banks -AB- [FEK, LP]

vogeli Townes -A- [LP]

Genus: Anoplius

apiculatus group -BC- [FEK]

insolens (Banks) -C- [LP]

marginalis (Banks) -AB- [FEK]

marginatus group -B- [FEK]

relativus (Fox) -ABC- [FEK]
semirufus (Cresson) -C- [FEK]
splendens (Dreisbach) -B- [FEK]

Genus: Auplopus

mellipes (Say) -AB- [FEK]
nigrellus (Banks) -A- [LP]

Genus: Calicurgus

hyalinatus (Fabricus) -AB- [FEK]

Genus: Ceropales

maculata fraterna Smith -A- [LP]

Genus: Dipogon

brevis brevis (Cresson) -A- [LP]
papago anomalus Driesbach -A- [LP]
pulchripennis (Cresson) -A- [LP]
sayi sayi Banks -A- [LP]

Genus: Episyron

biguttatus (Fabricus) -ABC- [FEK]
quinquenotatus (Say) -ABD- [FEK]

Genus: Evagetes

hyacinthinus (Cresson) -A- [LP]
ingenuus (Cresson) -AB- [FEK, LP]
parvus (Cresson) -A- [LP]

Genus: Pompilus

angularis angularis (Banks) -A- [LP]
apicatus Provancher -A- [LP]
arctus Cresson -A- [LP]
michiganensis michiganensis (Driesbach) -A- [LP]
scelestus Cresson -BC- [FEK, LP]

Genus: Priocnemis

germana (Cresson) -A- [LP]
minorata Banks -C- [FEK]

Genus: Priocnessus

nebulosus (Dahlbom) -C- [FEK]

Family: Chrysididae

Genus: Chrysis

derivata Buysson -A- [LP]

Genus: Trichrysis (Loro-chrysis)

doriae (Gribodo) -A- [LP]

Family: Vespidae*Genus: Ancistrocerus**'adiabatus* (Saussure) -A- [LP]*Genus: Dolichovespula**'arenaria* (Fabricius) -A- [LP]*'maculata* (Linnaeus) -ABC- [JHS]*Genus: Monobia**quadridens* (Linnaeus) -ABC- [JHS]*Genus: Polistes**spp.* -ABC- [JHS]*Genus: Vespula**'maculifrons* (Buysson) -A- [LP]*vidua* (Saussure) -A- [LP]**Family: Sphecidae***Genus: Ammophila**spp.* -AC- [DBM]*Genus: Ancistromma**distincta* (Smith) -A- [LP]*Genus: Aphilanthops**frigidus* (Smith) -ABC- [DBM]*subfrigidus* Dunning -B- [DBM]*Genus: Bembix**americana* Fabricius -B- [DBM]*Genus: Bicyrtes**spp.* -AC- [DBM]*Genus: Cerceris**spp.* -ABC- [DBM]*Genus: Crossocerus**annulipes annulipes* (Lepelletier & Brulle) -A- [LP]*elongatulus* Vander Linden -A- [LP]*impressifrons* (Smith) -A- [LP]*maculiclypeus* (Fox) -A- [LP]*Genus: Eremnophila**aureonotata* (Cameron) -AC- [DBM]*Genus: Lestica*

producticollis (Packard) -A- [LP]

Genus: Mellinus

bimaculatus (Packard) -A- [LP]

Genus: Microbembex

monodonta (Say) -E- [DBM]

Genus: Oxybelus

spp. -BF- [DBM]

Genus: Passaloecus

areolatus Vincent -A- [LP]

Genus: Philanthus

bilunatus Cresson -B- [DBM]

gibbosus (Fabricius) -B- [DBM]

politus Say -A- [LP]

pulcher Dalla Torre -AB- [DBM]

Genus: Podalonia

spp. -ABD- [DBM]

Genus: Sceliphron

caementarium (Drury) -B- [DBM]

Genus: Sphecius

speciosus (Drury) CICADA KILLER WASP -C- [JHS]

Genus: Spheg

ichneumoneus (Linnaeus) -ABC- [DBM]

Genus: Tachysphex

pechumani Krombein ANTENNAL WAVING WASP -A- [FEK]

tarsatus (Say) -AC- [FEK]

Genus: Trypoxylon

kolazyi Kohl -A- [LP]

pennsylvanicum Saussure -A- [LP]

Family: Colletidae

Genus: Colletes

simulans armatus Patton -A- [LP]

Genus: Hylaeus

spp. [DBM]

Family: Halictidae

*Genus: Agapostemon**sericeus* (Forster) -A- [LP]*Genus: Augochlorella**striata* (Provancher) -A- [LP]*Genus: Augochloropsis**metallica* (Fabricius) -A- [LP]*Genus: Halictus (Seladonia)**confusus* Smith -A- [LP]*Genus: Lasioglossum*

acuminatum McGinley -A- [LP]
admirandus (Sandhouse) -A- [LP]
coriaceum (Smith) -A- [LP]
laevissimum (Smith) -A- [LP]
leucozonium (Schrank) -A- [LP]
lineatulus Crawford -A- [LP]
pectoralis Smith -A- [LP]
pilosus Smith -A- [LP]
zonulum (Smith) -A- [LP]

Genus: Sphecodes

clematidis Robertson -A- [LP]
solonis Graenicher -A- [LP]

Family: Megachilidae*Genus: Anthidium**manicatum* (Linnaeus) -F- [JHS]*Genus: Coelioxys**spp.* -B- [JHS]**Family: Anthophoridae***Genus: Ceratina*

calcarata Robertson -A- [LP]
strenua Smith -A- [LP]

*Genus: Nomada**spp.* -AB- [JHS]*Genus: Xylocopa**virginica* (Linnaeus) -BC- [JHS]**Family: Apidae***Genus: Apis*

mellifera Linnaeus -C- [JHS]

Genus: Bombus

affinis Cresson -ABC- [JHS]

bimaculatus Cresson -ABC- [JHS]

fervidus (Fabricius) -ABCE- [JHS]

griseocollis (De Geer) -BC- [JHS]

impatiens Cresson -ABC- [JHS]

nevadensis auricomus (Robertson) -F- [JHS]

perplexus Cresson -B- [JHS]

rufocinctus Cresson -B- [JHS]

vagans vagans Smith -ABC- [JHS]

Genus: Psithyrus

ashtoni (Cresson) -ABC- [JHS]

citrinus (Smith) -ABC- [JHS]

CLASS: ARACHNIDA

ORDER: ARANEAE

Family: Clubionidae

Genus: Castianeira

cingulata (C. L. Koch) ANTI-MIMIC SPIDER -C- [BK]

Genus: Clubionoides

excepta (C. L. Koch) [CDD, JHR]

Family: Lycosidae

Genus: Alopecosa

aculeata (Clerck) [CDD, JHR]

Genus: Arctosa

rubicunda (Keyserling) [CDD, JHR]

Genus: Geolycosa

domifex (Hancock) [CDD, JHR]

Genus: Gladicosa

gulosa (Walckenaer) [CDD, JHR]

Genus: Hogna

frondicola (Emerton) [CDD, JHR]

helluo (Walckenaer) [CDD, JHR]

Genus: Pardosa

distincta (Blackwall) [CDD, JHR]

milvina (Hentz) [CDD, JHR]

modica (Blackwall) [CDD, JHR]
moesta Banks [CDD, JHR]
saxatilis (Hentz) [CDD, JHR]
xerampelina (Keyserling) [CDD, JHR]

Genus: Pirata

aspirans Chamberlin [CDD, JHR]
insularis Emerton [CDD, JHR]
montanoides Banks [CDD, JHR]
piraticus (Clerck) [CDD, JHR]

Genus: Schizocosa

crassipalpata Roewer [CDD, JHR]
duplex Chamberlin [CDD, JHR]
occreata (Hentz) [CDD, JHR]
saltatrix (Hentz) [CDD, JHR]

Genus: Trochosa

terricola Thorell [CDD, JHR]

Genus: Varacosa

avara (Keyserling) [CDD, JHR]

Family: Gnaphosidae*Genus: Callilepis*

pluto Banks [CDD, NIP]

Genus: Drassodes

neglectus (Keyserling) [CDD, NIP]

Genus: Gnaphosa

muscorum (C. L. Koch) [CDD, NIP]
parvula Banks [CDD, NIP]

Genus: Haplodrassus

bicornis (Emerton) [CDD, NIP]
hiemalis (Emerton) [CDD, NIP]
signifer (C.L. Koch) [CDD, NIP]

Genus: Herpyllus

ecclesiasticus Hentz [CDD, NIP]

Genus: Micaria

pulicaria (Sundevall) [CDD, NIP]

Genus: Sergiolus

capulatus (Walckenaer) [CDD, NIP]

Genus: Zelotes

duplex Chamberlin [CDD, NIP]

exiguoides [CDD, NIP]

fratris Chamberlin [CDD, NIP]

hentzi Barrows [CDD, NIP]

Family: Philodromidae

Genus: Philodromus

cespitem (Walckenaer) [CDD, JHR]

Genus: Tibellus

oblongus (Walckenaer) [CDD, JHR]

Family: Thomisidae

Genus: Misumenops

oblongus (Keyserling) [CDD, JHR]

Family: Theridiidae

Genus: Latrodectus

variolus Walckenaer NORTHERN WIDOW -C- [BK, JHS, GV]

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<i>Abagrotis</i>	97	<i>Actebia</i>	97
<i>abalienalis</i> , <i>Bomolocha</i>	82	<i>Actias</i>	74
<i>abbottii</i> , <i>Sphecodina</i>	76	<i>aculeata</i> , <i>Alopecosa</i>	130
<i>abbreviata</i> , <i>Strangalepta</i>	34	<i>acuminatum</i> , <i>Lasioglossum</i>	129
<i>abbreviatus</i> , <i>Phlegyas</i>	11	<i>acuminatus acuminatus</i> , <i>Neoclytus</i>	33
<i>abdominalis</i> , <i>Holcocephala</i>	103	<i>acuminatus</i> , <i>Glossonotus</i>	13
<i>aberrans</i> , <i>Chrysops</i>	101	<i>Acutalis</i>	13
<i>abortivaria</i> , <i>Dyspteris</i>	66	<i>acutangula</i> , <i>Coproica</i>	117
<i>Abrostola</i>	84	<i>acutella</i> , <i>Nascia</i>	56
<i>abruptus</i> , <i>Elater</i>	27	<i>acutus</i> , <i>Scaphytopius</i>	17
<i>absinthiata</i> , <i>Eupithecia</i>	67	<i>Adaina</i>	53
<i>absortialis</i> , <i>Macrochilo</i>	80	<i>Adalia</i>	29
<i>acadicum</i> , <i>Satyrium</i>	71	<i>adiabatus</i> , <i>Ancistrocerus</i>	127
<i>acadiensis</i> , <i>Cryptocala</i>	97	<i>adipaloides</i> , <i>Diacme</i>	56
<i>Acanalonia</i>	18	<i>Adita</i>	92
<i>Acanthocephala</i>	11	<i>adjuncta</i> , <i>Melanchra</i>	95
<i>Acanthomyops</i>	124	<i>adjuta</i> , <i>Leucania</i>	95
<i>Acanthosinus</i>	32	<i>admirandus</i> , <i>Lasioglossum</i>	129
Acanthosomatidae	11	<i>Adoneta</i>	52
<i>acapnopennella</i> , <i>Nemapogon</i>	38	<i>Aedes</i>	100
<i>Acasis</i>	66	<i>aemula</i> , <i>Idia</i>	80
<i>Acentria</i>	54	<i>aemulataria</i> , <i>Semiothisa</i>	65
<i>Aceratagallia</i>	14	<i>aenea</i> , <i>Arthromacra</i>	31
<i>aceriella</i> , <i>Cameraria</i>	39	<i>aeneus</i> , <i>Malachius</i>	29
<i>acerivorana</i> , <i>Sparganothis</i>	51	<i>Aeolus</i>	27
<i>acerni</i> , <i>Synanthedon</i>	52	<i>aerata</i> , <i>Synchlora</i>	65
<i>Achatia</i>	94	<i>aerea</i> , <i>Allagrapha</i>	84
<i>Achatodes</i>	88	<i>aereoides</i> , <i>Diachrysia</i>	85
<i>achemon</i> , <i>Eumorpha</i>	76	<i>aerosus</i> , <i>Brachys</i>	26
<i>Acheta</i>	5	<i>aeruginosa</i> , <i>Zale</i>	84
Achilidae	18	<i>aesculana</i> , <i>Proteoteras</i>	48
<i>Achyra</i>	55	<i>Aeshna</i>	2
<i>acia</i> , <i>Gyponana</i>	16	Aeshnidae	2
<i>Aclerda</i>	19	<i>aestuans</i> , <i>Chrysops</i>	101
Aclerdidae	19	<i>Aethalura</i>	61
<i>Acleris</i>	49	<i>Aethes</i>	51
<i>Acmaeodera</i>	26	<i>affiliana</i> , <i>Endothenia</i>	46
Acontiinae	86	<i>affinata</i> , <i>Eupithecia</i>	67
<i>Acordulecera</i>	122	<i>affinis</i> , <i>Bombus</i>	130
<i>acrea</i> , <i>Estigmene</i>	78	<i>affinis</i> , <i>Dolichopus</i>	107
Acrididae	6	<i>affinis</i> , <i>Harpalus</i>	21
<i>acrionalis</i> , <i>Pyrausta</i>	57	<i>afflicta</i> , <i>Acronicta</i>	87
<i>Acrobasis</i>	60	<i>afflictana</i> , <i>Syndemis</i>	51
Acroceridae	105	<i>Agalliopsis</i>	14
Acrolophidae	39	<i>Agalliota</i>	14
<i>Acrolophus</i>	39	<i>Agapostemon</i>	129
<i>Acronicta</i>	87	Agaristinae	88
Acronictinae	87	<i>Ageniella</i>	125
<i>acronyctoides</i> , <i>Panthea</i>	87	<i>agenoides</i> , <i>Ageniella</i>	125
<i>Acrosternum</i>	11	<i>aggressa</i> , <i>Anathix</i>	92

<i>Aglossa</i>	59	<i>alnivorella, Caloptilia</i>	39
<i>Agonopterix</i>	42	<i>Alobates</i>	31
<i>Agonoxenidae</i>	41	<i>Alopecosa</i>	130
<i>Agonum</i>	20	<i>Alsophila</i>	61
<i>agricolana, Eucosma</i>	47	<i>alterana, Phaneta</i>	48
<i>Agrilus</i>	26	<i>alternata, Abagrotis</i>	97
<i>agrimoniella, Anacamptis</i>	43	<i>alternata, Disonycha</i>	35
<i>Agriopodes</i>	88	<i>alternata, Epirrhoe</i>	66
<i>Agriphila</i>	58	<i>alternata, Villa</i>	106
<i>Agromyzidae</i>	115	<i>alternatella, Argyresthia</i>	40
<i>Agrotis</i>	97	<i>Alucita</i>	53
<i>Alaus</i>	27	<i>Alucitidae</i>	53
<i>albarufa, Acronicta</i>	87	ALUCITOIDEA	53
<i>albata, Clemensia</i>	78	<i>alurina, Orthosia</i>	96
<i>albella, Paraleucoptera</i>	41	<i>Alydidae</i>	11
<i>albellus, Crambus</i>	58	<i>Alypia</i>	88
<i>alberta, Archips</i>	49	<i>amanda, Lithophane</i>	93
<i>albibarbis, Efferia</i>	104	<i>amatana, Gretchena</i>	47
<i>albicans, Argyra</i>	107	<i>amatrix, Catocala</i>	83
<i>albiciliana, Olethreutes</i>	48	<i>ambifusca, Meropleon</i>	91
<i>albiciliatus, Dolichopus</i>	107	<i>ambigualis, Lascoria</i>	80
<i>albicoxa, Dolichopus</i>	107	<i>ambiguus, Leptothorax</i>	123
<i>albidula, Lithacodia</i>	87	<i>Amblycorypha</i>	5
<i>albifera, Hydrelia</i>	67	<i>Amblyopone</i>	123
<i>albifrons, Symmerista</i>	78	<i>Amblyscirtes</i>	69
<i>albimaculana, Cydia</i>	46	<i>ambrosiae, Adaina</i>	53
<i>albipennis, Euxoa</i>	98	<i>americalis, Idia</i>	80
<i>albipilosa, Cerotainia</i>	103	<i>americana, Acronicta</i>	87
<i>albofasciatus, Anthrax</i>	106	<i>americana, Amphipoea</i>	89
<i>albosigma, Clostera</i>	76	<i>americana, Bembix</i>	127
<i>albovittata, Trichodezia</i>	68	<i>americana, Cimbex</i>	122
<i>Albuna</i>	51	<i>americana, Harrisina</i>	53
<i>alcoolaria, Plagodis</i>	64	<i>americana, Hetaerina</i>	1
<i>Aletia</i>	94	<i>americana, Myrmecina</i>	124
<i>algens, Brachylomia</i>	92	<i>americana, Necrophila</i>	23
<i>alia, Apamea</i>	89	<i>americana, Phyllodesma</i>	74
<i>alienaria, Probole</i>	64	<i>americana, Phymata</i>	10
<i>alienella, Depressaria</i>	42	<i>americanum, Malacosoma</i>	74
<i>alienus, Lasius</i>	125	<i>americanum, Omophron</i>	22
<i>alisellana, Argyrotaenia</i>	50	<i>americanus, Camponotus</i>	124
<i>Allagrapha</i>	84	<i>americanus, Eupeodes (Eupeodes)</i>	109
<i>Allantus</i>	121	<i>americanus, Lethocerus</i>	9
<i>allardi, Allonemobius</i>	5	<i>americanus, Nicrophorus</i>	23
<i>allenella, Bibarrambla</i>	42	<i>americanus, Tabanus</i>	102
<i>allionealis itealis, Parapoinx</i>	55	<i>amica, Catocala</i>	83
<i>allionealis, Parapoinx</i>	55	<i>amicaria, Probole</i>	64
<i>Allograpta</i>	109	<i>Annophila</i>	127
<i>Allonemobius</i>	5	<i>Anniscus</i>	32
<i>Allotrichoma</i>	118	<i>Amobia</i>	120
<i>alni, Aphrophora</i>	12	<i>amoena, Chymomyza</i>	118

<i>amoenus, Phymatodes</i>	34	<i>Anhimella</i>	94
<i>Amolita</i>	88	<i>Anicia</i>	120
<i>Amorbia</i>	49	<i>anilis, Argyrostrotis</i>	82
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<i>velleda</i> , <i>Tolyte</i>	74	<i>virginiana</i> , <i>Pseudexentera</i>	49
<i>velleripennis</i> , <i>Euxoa</i>	98	<i>virginica</i> , <i>Ctenucha</i>	80
<i>vellivolata</i> , <i>Anacamptodes</i>	61	<i>virginica</i> , <i>Parcoblatta</i>	8
<i>velutinana</i> , <i>Argyrotaenia</i>	50	<i>virginica</i> , <i>Spilosoma</i>	79
<i>velutinus velutinus</i> , <i>Typocerus</i>	34	<i>virginica</i> , <i>Verrallia</i> (<i>Verrallia</i>).....	108
<i>venerabilis</i> , <i>Agrotis</i>	97	<i>virginica</i> , <i>Xylocopa</i>	129
<i>venusta</i> , <i>Plusia</i>	85	<i>virginiensis</i> , <i>Anisota</i>	74
<i>venustus</i> , <i>Dasysyrphus</i>	109	<i>virginiensis</i> , <i>Milesia</i>	111
<i>verbascoides</i> , <i>Apamea</i>	89	<i>virginiensis</i> , <i>Vanessa</i>	73

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<i>virgo</i> , <i>Odontomyia</i>	101	<i>Xenodusa</i>	24
<i>virguncula</i> , <i>Grammia</i>	79	<i>Xenox</i>	106
<i>viridata</i> , <i>Acasis</i>	66	<i>xerampelina</i> , <i>Pardosa</i>	131
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<i>viridisigma</i> , <i>Syngrapha</i>	85	<i>Xylena</i>	94
<i>viteana</i> , <i>Endopiza</i>	46	<i>Xylesthia</i>	39
<i>vitellina</i> , <i>Fitchana</i>	15	<i>xylinoides</i> , <i>Hyppa</i>	90
<i>vitellinana</i> , <i>Carolella</i>	51	<i>Xylocopa</i>	129
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<i>vitripennis</i> , <i>Geron</i> (<i>Geron</i>)	105	<i>Xylophagidae</i>	104
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<i>vulgaris</i> , <i>Apamea</i>	89	<i>Ypsolopha</i>	40
<i>vulgaris</i> , <i>Systoechus</i>	106	<i>Ypsolophidae</i>	40
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<i>xanthoides</i> , <i>Sparganothis</i>	51	<i>Zodion</i>	113
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