



Wisconsin Entomological Society

Newsletter

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**Welcome Dr. Craig Brabant, Academic
Curator, UW Insect Research Collection**

By Daniel K. Young, Ph.D.

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Please join me in welcoming **Dr. Craig Brabant**, 4th Academic Curator of the University of Wisconsin Insect Research Collection (WIRC), following the long career of Distinguished Curator, Steven Krauth. Craig will be already well known to some of you as a former student in my Systematic Entomology Laboratory where he completed a Master's thesis conducting a survey of the velvet ants (Hymenoptera: Mutillidae) in Wisconsin in 2003. With a passion to continue his studies on Mutillidae, Craig embarked on a doctoral research project entitled, "Taxonomic Revision and Phylogenetic Analysis of the South American Genus *Tallium* André (Hymenoptera: Mutillidae)." Craig defended his dissertation this past August.



During the last four years of his degree program, Dr. Brabant was a Research Assistant under an NSF grant I shared with a number of other insect collections. This grant, attached to the WIRC under my directorship, is entitled "Advancing Digitization of Biodiversity Collections" (ADBC) – part of the InvertNet group (<http://invertnet.org/about>). This work required hands-on, day-to-day work in the collection and daily demonstration of a robust suite of curatorial skills from specimen interpolation of incoming new material and handling loan transactions to taxonomically revising and phylogenetically updating large portions of the collection

holdings; from assisting with planning and carrying out a major move and expansion of the collection holdings into our expansion facility in the Stock Pavilion, the “WIRC Annex,” to design, layout and management of current collection space. The development of work flows, protocols, and extensive trouble-shooting with the WIRC’s digitizing robotic system (Digi-Pan technology) was – and is – entirely under the initiative of Dr. Brabant, and he has communicated frequently with colleagues at the “home institution” (Illinois Natural History Survey) to the benefit of the entire, 24-member group of InvertNet participant universities and institutions.

Although our collection of well over three million specimens and twice that in bulk lots is in its data-basing infancy, Craig has been instrumental in converting our disparate pre-existing databases (Biota, File Maker, various spreadsheets and Word files) to our current relational database, Specify. This required not only a considerable taxonomic working knowledge base but a plethora of emails and telephone conversations with the Specify technical support staff in Kansas. Dr. Brabant also recently developed a working knowledge of WordPress, the option currently used by the department for webpage development.

Our collection website has largely been his product (<http://labs.russell.wisc.edu/wirc/>) conceptually, in terms of layout, and now content. He continues to work with our web-support staff to update our (WIRC) web content.

A number of years ago, I was able to piece together funding for a new imaging system: our Auto-Montage microscopy system with Syncroscopy image stacking software. Some of you have had an opportunity to use our system with your own imaging projects. It was Dr. Brabant whom I called upon to assemble and install the new system, wade through the user manuals and make it functional. Following several years of very regular use by numerous faculty lab groups, students, classes, and colleagues from the WI-DNR, the system “crashed.” It was Dr. Brabant who was able to work directly with our Russell Labs IT staff as well as numerous emails with the technical support staff at Syncroscopy in the United Kingdom to trouble shoot and finally get us back up and running. He also wrote a user manual and suggested and configured a user log-in system to help promote better tracking and trouble-shooting. His efforts not only made the Auto-Montage functional at a critical time in the lives of several graduate students requiring publication-

quality images to finish research projects and theses, but those skilled efforts saved us several thousand dollars in system upgrades that we candidly did not have.

Following the retirement of Steve Krauth, Craig was able to step in as Interim WIRC Curator while our departmental Search Committee worked through the tedious process of evaluating some 30 applicants to the posted curatorial position. I am most pleased to say that Dr. Brabant rose to the top of the finalist group and his position “officially” began on 1 January 2016.

I’m sure I join Craig in inviting you to conduct research in the WIRC: get to know – or continue to know more about – what a unique resource the WIRC provides to the local, regional, and – indeed – world entomological communities. We also encourage you to contribute your time and talents to the WIRC as we seek to expand volunteer opportunities.

Dr. John L. (Jack) Kaspar (1927-2015)

Professional ornithologist and arachnologist Dr. John L. (Jack) Kaspar of Oshkosh, Wisconsin, passed away on 18 December 2015. Kaspar had earned his

bachelor’s, master’s, and Ph.D. degrees in zoology from the University of Wisconsin-Madison. For more than 30 years, he was a professor of biology at UW-Oshkosh. In 1996, the Wisconsin Society for Ornithology (WSO) bestowed its Bronze Passenger Pigeon Award on Kaspar for recognition of his lifetime contributions to the field of ornithology.

Kaspar also served on the council of the Citizen’s Natural Resources Association (CNRA) of Wisconsin and (of more interest to WES members) the American Arachnological Society (AAS)’s Genera of North America revision team. The bulk of information concerning Kaspar’s life and work has been provided by Dreux J. Watermolen, Wisconsin Department of Natural Resources (WDNR).

A more in-depth obituary and photo of Kaspar appeared in *The Badger Birder* (Wisconsin Society of Ornithology), Jan. 2016, on p. 19:
<http://www.legacy.com/obituaries/thenorthwestern/obituary.aspx?pid=176957994>.

Two of Kaspar’s leading publications in the field of arachnology are cited below.

Blasczyk, M. J., J. P. Lass, and J. L. Kaspar. 1992. “Spiders of the UW-Milwaukee Field

Station.” *University of Wisconsin-Milwaukee Field Station Bulletin* 25(2): 10-20.

Snyder, B. A., M. L. Draney, J. L. Kaspar, and J. Whitehouse. 2004. “Preliminary Survey of the Terrestrial Isopods (Isopoda), Millipedes (Diplopoda), Harvestmen (Opiliones), and Spiders (Araneae) of Toft Point Natural Area, Door County, Wisconsin.” *The Great Lakes Entomologist* 37(3-4): 105-115.

Kathryn Kirk (1951-2016)

Kathryn Kirk, born Kathy L. Baker to parents in Peoria, Illinois, passed away on 9 January 2016, after living with ALS for three years. Kathy graduated from the University of Illinois and first moved to southwestern Minnesota before settling in Trempealeau County, Wisconsin. She then earned a master’s degree in conservation biology from UW-Madison in the 1990s. She had done fieldwork for The Nature Conservancy, the U.S. Fish and Wildlife Service, and the Bureau of Endangered Resources within the Wisconsin Department of Natural Resources (WDNR). She engaged in projects to protect the Hines Emerald Dragonfly, the Karner Blue Butterfly, and

the Bell’s Vireo bird. She also completed a biological inventory of the Badger Army Ammunitions Plant.

A Master Gardener, Kirk also served on the board of The Prairie Enthusiasts. Her most notable entomological publication was her co-authorship, with Charles R. Bomar, of the *Guide to the Grasshoppers of Wisconsin* (Kirk and Bomar 2005). A memorial service honoring Kathryn was held on 24 January 2016 at the Friends House in Madison, Wisconsin. Again, most of the information contained in this notice has been provided by Dreux J. Watermolen of the WDNR. A more complete obituary and photo of Kirk may be found at the website below:

http://host.madison.com/news/local/obituaries/kirk-kathryn/article_07a133a5-f2b5-55b3-a311-f0b3a74cc23a.html.

Kirk, K. and C. R. Bomar. 2005. *Guide to the Grasshoppers of Wisconsin*. Madison: Wisconsin Department of Natural Resources.

The *Wisconsin Entomological Society Newsletter* is published three times per year. The newsletter is provided to encourage and facilitate the exchange of information by the membership, and to keep members informed of the activities of the organization. Members are encouraged to contribute

items for inclusion in the newsletter. Please send all news items, notes, new or interesting insect records, seasonal summaries, and research reports or requests to the editor.

2014 dues notices were sent out in January. Please note that the year through which dues are paid appears on the newsletter's mailing label after your name.

Membership Dues:

Individual or family: \$10 per year

Sustaining: \$15 per year

Patron: \$25 per year

Please make checks payable to WES and send to:
Les Ferge, Treasurer, 7119 Hubbard Avenue,
Middleton, WI 53562-3231. lesferge@gmail.com
Please report any address changes to the Treasurer.

Winners of the 2015 Photo Salon Contest:



First Place: Don Parsons, "Bold Jumper."
Jumping spider, Phidippus audax.



Second Place: Kyle Johnson (moth).



Third Place: Marci Hess (velvet mite).

Books and Websites

By Andrew Khitsun

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From Nebraska with love, along comes another book in a long series of titles (some free) on scarab beetles: **The Dynastine Scarab Beetles of West Indies** by B. Ratcliffe, et al., while **Illustrated Guide To The Emerald Ash Borer** by M. Chamorro, et al., has 33 species of the beetle

genus *Agrilus* illustrated in full color. The book is pricey, but a free .pdf version can be downloaded at:

http://www.fs.fed.us/nrs/pubs/jrnl/2015/nrs_2015_chamorro_001.pdf. **Hyper**

Nature by P. Martin is full of totally awesome photos of insects (and some other critters).

But if you're only interested in butterfly photos (and interesting facts), another visual gem is for you: **Butterflies** by R. Orenstein & T. Marent. **The Butterflies of North America: Titian Peale's Lost Manuscript** (with introduction by K. Haltman) is the first time that this nineteenth-century American naturalist and artist's work has made it to print (the unfinished original was never published, for over 100 years), and may be compared with Audubon's *Birds of North America*.

Butterflies of Alaska by K. Philip, et al., adds to the pantheon of state Lepidoptera fauna books.

For those who often venture towards our southern neighbors (and have some money to spend), the very expansive (and expensive) series in 12 volumes,

Cerambycidae sul-americanos (Coleoptera). Taxonomia., by U. Martins offers a concise treatment of that group of beetles. As for stateside books, **Carabidae**

of Vermont & New Hampshire by R. Bell is currently available from only one bookstore at:

<http://www.northshire.com/book/9780970082312> (thanks to WES member Peter

Messer for this contribution). Another beetle book, **A Field Guide To The Tiger Beetles Of The United States And Canada** by D. Pearson, et al., caused lots of controversy online because some copies sold by Amazon had color plates missing (buyer beware!). This book is the second, expanded edition of the first published in 2005.

The American Psychopathological Society (APS) offers a number of books at its store at <http://www.apsnet.org/apsstore/shopapspress/Pages/Entomology.aspx>, including books published by Entomological Society of America such as **Handbook of Small Grain Insects, Handbook of Forage and Rangeland Insects, Handbook of Turfgrass Insects and Handbook of Corn Insects**. While mostly aimed at specialists, some of these books may be of interest to an avocational entomologist; the books in question have already been mentioned in this column few years ago, but the store from which they're sold has changed (ESA members still get a discount). Some other insect books are available from APS.

If you're looking at books as an investment, try some European or international articles: **Outstanding Birdwing Butterflies** by Deslisle & Sclavo will set you back 600 Euros and is the most up-to-date volume (actually two) on the Birdwings, illustrating all known subspecies, aberrations, gynandromorphs, etc. Fortunately, the closer to home – the better (and cheaper): **Longicornios de Cuba** (in Spanish) by S. Devesa, et al., is “only” 80 British pounds (the book covers longhorn beetles of the island).

The website **Elytra & Antenna** at <http://www.angelfire.com/oh3/elytraandantenna/> is mostly for enthusiasts who breed and rear insects in captivity, offering a number of books on the topic, as well as back issue copies of *Invertebrates* magazine. Another site, **Bugs in Cyberspace** at http://shop.bugsincyberspace.com/Books-Magazines-Free-Shipping_c8.htm, also offers some books for sale, as well as everything one needs to know if one is interested in pet insects. A very interesting online column, **Bug of the Week** (thanks to WES member Peter Messer for this contribution), is available at <http://www4.uwm.edu/fieldstation/naturalhistory/bugoftheweek/>. It can be subscribed to if one wishes. The website

Spiders.us at <http://www.spiders.us/> is designed to help people with spider identification, and is a work in progress, promising more material and resources to be available in the future.

On the Wisconsin front, a good companion to the previously mentioned *Field Guide to Wisconsin Grasses* is **Field Guide to Wisconsin Sedges** by A. Hipp, et al.

Editor's Note: At the Fall 2015 WES meeting, the availability of an additional taxonomic work of local importance (on blister beetles) was announced: Daniel A. Marschalek and Daniel K. Young, “The Meloidae (Coleoptera) of Wisconsin.” *Zootaxa* 4030(1): 1-89 [13 Oct. 2015].

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Mystery Insects

By Marci Hess

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The mystery insects from last edition received a couple of suggestions. One was *Scaphoideus* sp. for the yellow hemipteran (leafhopper) and the other was *Genea aurea* for the dipteran. The dipteran is a tachinid but not *Genea aurea* as they are much more yellow-colored. I posted the fly on BugGuide, so if you'd like to see that conversation, here's the link.

<http://bugguide.net/node/view/1183770>. I haven't been able to confirm the hemipteran yet. Photos of these can be seen on WES Facebook page.

<https://www.facebook.com/photo.php?fbid=10204401805958855&set=pcb.1754030324833365&type=3&theater>

Mystery insects for this edition are two more hemipterans. The leafhopper (first image) came to the black light on 23 Aug 2014. The dots are medium brown, wings and head are yellow. It's approximately 5-6 mm.



The lygaeid (second image) came to the black light on 24 Jul 2014. It is shades of brown with the lighter part a gray or cream color and about 5-6 mm.



Color photos and additional views can be seen on WES Facebook page.
<https://www.facebook.com/photo.php?fbid=10204401829279438&set=pcb.1754032071499857&type=3&theater>

If you would like to provide an ID on any of these specimens, please contact Marci Hess, at marci.hess@tds.net.

Wisconsin: Now With More Earwigs

By P. J. Liesch

Earwigs don't exactly have a very big fan base, so the title of this article probably won't get the general public too excited. *At least entomologists know how to appreciate the little things in life . . .*

This story began in the very final days of 2015. The UW-Madison campus pest control specialist stopped by the diagnostic lab with an insect sample, as he does from time to time. In this particular case, the sample was collected from the relatively new Discovery Center building on campus and consisted of a number of earwigs, which obviously weren't our typical species. We're not exactly rich in terms of earwig diversity in Wisconsin and the non-native European Earwig (*Forficula auricularia*) is essentially *THE* earwig that people encounter around these parts. Technically speaking, there are a few other earwig species in the Wisconsin Insect Research Collection that have popped up in the state over the past 100 years, but these

are most likely accidental introductions of a few individuals in the soil of potted greenhouse plants.

The earwigs from the campus Discovery Center were darker than our run-of-the-mill European earwigs, and certain specimens (males) had pincers that were curved significantly more than the other specimens, indicating the family Anisolabididae (formerly Carcinophoridae). Several taxonomic keys and genitalia dissections later and their identity was determined: *the Ring-Legged Earwig* (*Euborellia annulipes*). Like most earwigs, *E. annulipes* is a generalist scavenger and predator.

So how exactly did the ring-legged earwigs show up in the Discovery Center on the UW-Madison Campus? If you've been inside the Discovery Center, it's hard not to notice the "Mesozoic Garden," an indoor display of lush ferns, mosses, cycads, palms and other plants. The ring-legged earwigs most likely arrived in the soil of these exotic plants. While *E. annulipes* is believed to have been introduced to the U.S. from Europe in the 1800s, this species is now fairly common in the southern states. Technically, the ring-legged earwig had been documented in Wisconsin back in the 1970s, when a few specimens were collected

from a greenhouse on campus. While this new detection of *E. annulipes* isn't a new state record, the presence of juveniles in the sample and the sheer number of specimens found suggests that it's an established and breeding colony. It's unlikely that this species will be dispersing anytime soon, but it's interesting to think that we've got an unusual species living in our midst on the UW campus.

Late Season Monarch Sighting

WES member Roy Lukes (of Egg Harbor, WI) reported that a friend of theirs living a few miles southeast of Sister Bay in northern Door County observed and photographed a Monarch on 3 November 2015, a sunny day when the temperature was in the 60s. The specimen might have been the one that hatched from a chrysalis attached to a deck chair that was seen to emerge on 14 October. There was little chance, however, that the Monarch was still able to complete its migration before being stopped by colder weather.

Wisconsin Revisited by the Funeral Dusky Wing

By Jim Ebner

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The reoccurrence of the Funeral Dusky Wing (*Erynnis funeralis*) in Wisconsin during the 2015 season is noteworthy. This unmistakable skipper is a resident of regions much further south. However, since 2002, this species has been detected in eight southern Wisconsin counties with the most recent sighting taking place in Okauchee, Waukesha County, on 20 September 2015. This vagrant nectared for several minutes on dwarf zinnias within my butterfly garden. The specimen was subsequently collected and sent to Les Ferge for disposition within his state reference collection.



Insects and Art

A profile of UW-Madison professor of design studies Jennifer Angus, who regularly incorporates a diversity of mounted insects into her artwork, was

featured in the *Wisconsin State Journal*, 3 January 2016. See Gayle Worland, "Beautiful Bugs," Section E, pp. 1, 6. The article might be accessed online.

Beekeeping Classes in 2016

One-day beginners classes will be offered on 20 February, 19 March, 9 April, and 7 May 2016, while a one-day second-step class is offered on 5 March 2016. The cost for any of these classes is \$50. Classes will be held at the Dane County UW Extension Building, 5201 Fen Oak Drive, Madison, WI 53718. To register, or for further information/questions, contact Jeanne Hansen, 608-244-5094 or jeanniealabeannie@yahoo.com.

Iowa Day of Insects: April 9, 2016

M. J. Hatfield has announced the date of this annual gathering of insect aficionados at Reiman Gardens, 1407 University Blvd., Ames, Iowa 50011 (associated with Iowa State University). Below is the website for more information about the gathering. Notably, WES president Kyle Johnson will be one of the featured speakers!

<http://www.reimangardens.com/collections/insects/day-of-insects/>

2015 Wisconsin Lepidoptera Season

Summary

Compiled by Les Ferge

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Contributors:

Steven C. Bransky (SCB), James A. Ebner (JAE), Leslie A. Ferge (LAF), Kyle E. Johnson (KEJ), Jordan D. Marche (JDM), Marcie O'Connor (MO), Joan F. Rickert (JFR), Scott & Ann Swengel (SAS), Richard J. Teper (RJT).

The phenology and weather conditions of 2015 were close to average throughout the season. In southern Wisconsin, early spring emerging moth species were on the wing by late March, and spring emerging butterflies began appearing in the latter part of April. With a few notable exceptions, most butterfly species were generally scarce again this season (JAE, SAS). Among the butterfly species found in above average numbers were *Carterocephalus palaemon*, *Euchloe olympia*, *Lycaena dione* (at Buena Vista WA), *Lycaena epixanthe*, *Lycaena dorcas*, *Boloria freija* and spring brood *Chlosyne gorgone* in Monroe and Jackson Counties

(SAS). *Lycaena helloides* continues to be seen in good numbers in areas reported in 2014 (SAS). Scarcely any migrant butterflies were reported, with just one *Euptoieta claudia* seen in Monroe County (SAS), and scattered singletons of *Vanessa cardui* in central and southern Wisconsin (JAE, SAS). Singletons of *Erynnis funeralis* and *Battus philenor* were found in SE Wisconsin (JAE). Monarch populations were about average (SAS) to above average, with 500 reared (JAE). A significant number of butterfly species continue to decline alarmingly or have disappeared entirely. *Hesperia ottoe* tied or broke record low numbers for the third year in a row in seven sites visited (SAS). No *Hesperia ottoe* could be found in a number of promising new sites in the western counties (KEJ). *Hesperia metea* experienced its fifth straight low year, *Callophrys irus* had its lowest year in more than 10 years. *Lycaeides idas* was not seen for the first time ever in 16 years at Shrine Road in Marinette County and *Plebejus saepiolus* has not been seen for the fifth year in a row (SAS). *Oarisma poweshiek* was not found at its historic Waukesha County site (JAE).

Moth numbers were about average in the first half of the season, but declined noticeably from early August on, repeating

the pattern of the previous few seasons. Numbers of many usually common to abundant late season moth species were significantly lower than usual. Locally abundant northern species such as *Catocala antinympha*, *Papaipema pterisii*, *Epiglaea apiata*, *Enargia decolor* and *Xestia dilucida* were noticeably reduced (LAF). In contrast, *Catocala insolabilis*, formerly regarded as a rare stray in Wisconsin, now appears to be widespread and becoming common in hickory woodlands in the southern parts of the state (KEJ). *Catocala lacrymosa*, another historical stray, has now occurred in successive years in Kenosha County (SCB). The introduced geometrid *Pasiphila rectangulata* continues to spread across the state. A few southern stray and migrant species were found in late October-early November, with *Anomis erosa* recorded in several sites (SCB, LAF). *Anticarsia gemmatalis* and *Mocis texana* were also found (SCB), along with a stray *Autographa californica* (LAF).

The following list of records comprises only the highlights of the 1260 records received. The Wisconsin Lepidoptera database maintained by LAF currently exceeds 63,750 records. New county records are indicated by the county name in CAPITAL letters.

SPECIES NAME	COUNTY	LOCALITY	FIRST DATE	LAST DATE	CONTRIBUTOR
HESPERIIDAE					
Erynnis funeralis	WAUKESHA	Okauchee	20 Sep 2015		JAE
Erynnis lucilius	Pierce	Trenton Bluff Prairie	17 Jul 2015		KEJ
Hesperia ottoe	Crawford	Rush Creek SNA	19 Jul 2015		SAS
Hesperia metea	Jackson	Bauer-Brockway Barrens	15 May 2015	28 May 2015	SAS
Hesperia metea	Marinette	Dunbar Barrens SNA	16 May 2015		SAS
Euphyes dion	LAFAYETTE	Erickson Wetlands near Argyle	29 Aug 2015		SCB
Amblyscirtes vialis	Pierce	Trenton Bluff Prairie	17 Jul 2015		KEJ
PAPILIONIDAE					
Battus philenor	Milwaukee	Oak Creek	23 May 2015		JAE
PIERIDAE					
Pieris oleracea	Florence	1 mi. S of Long Lake	16 May 2015		LAF
Pieris virginiana	Forest	Wolf Lake Bog along FR 2182	31 May 2015		SAS
LYCAENIDAE					
Lycaena dione	ADAMS	Leola WA	27 Jun 2015		SAS
Lycaena dione	Portage	Buena Vista WA	22 Jun 2015	15 Aug 2015	SAS
peak of 103+ individuals on 12 July					
Lycaena hyllus	Columbia	Schoeneberg Marsh	13 Sep 2015		SAS
Lycaena hyllus	Juneau	Necedah NWR	20 Sep 2015		SAS
Lycaena helloides	Adams	Leola WA	2 Jun 2015		SAS
310 sightings 2 June-7 October, peak of 90 on 30 July					
Lycaena helloides	Burnett	Crex Meadows WA	23 Jul 2015		SAS
Lycaena helloides	COLUMBIA	Schoeneberg Marsh	13 Sep 2015		SAS
Lycaena helloides	IRON	Caroline Lake Bog	4 Jul 2015		SAS
Lycaena helloides	MARQUETTE	Hamel's Bog	25 Jun 2015		SAS
Lycaena helloides	Marquette	4th Av. & 4th Rd. nr. Lake Burnita	31 Jul 2015		SCB
Lycaena helloides	Waushara	Dakota	21 Jul 2015		SAS
Callophrys gryneus	BUFFALO	Canada Ridge Prairies	21 Jul 2015		KEJ
NYMPHALIDAE					
Nymphalis l-album	JEFFERSON	Johnson Creek	28 Jun 2015		JAE
Nymphalis antiopa	Dane	Town of Oregon Park	16 Mar 2015		JDM
Boloria eunomia	Chippewa	O'Niel Creek Peatlands	2 Jun 2015		KEJ
Boloria eunomia	CLARK	Eadsville Bog	2 Jun 2015		KEJ
Boloria frigga	Vilas	Nixon Creek Peatlands	22 May 2015		KEJ
Boloria freija	Langlade	Camp Lake Bog	13 May 2015		KEJ, SCB
Lethe appalachia	IRON	1.5 mi. E of Upson	24 Jul 2015		LAF
Coenonympha tullia	GREEN LAKE	White River WA	2 Jun 2015		SAS
Erebia discoidalis	Forest	Armstrong Creek	7 May 2015		SCB
Erebia discoidalis	Langlade	Camp Lake Bog	13 May 2015		KEJ, SCB
Oeneis chryxus	Bayfield	Moquah Barrens	23 May 2015		SAS
Oeneis chryxus	Douglas	near Brule	22 May 2015		SAS
Oeneis chryxus	Marinette	Dunbar & Hwy. I Barrens	16 May 2015		SAS
Danaus plexippus	Waukesha	Oconomowoc	23 May 2015	9 Oct 2015	JAE
CRAMBIDAE					
Crambus alienellus	Barron	Tenmile Lake Bog	2 Jun 2015		KEJ
DEPRESSARIIDAE					
Agonopterix paulae	COLUMBIA	Lost Lake	1 Jan 2015		KEJ
Depressariodes scabella	COLUMBIA	Lost Lake	1 Jan 2015		KEJ
STATE RECORD; possibly 4th specimen known to science; hibernating under bark					
GRACILLARIIDAE					
Caloptilia hypericella	BUFFALO	Canada Ridge Prairies	17 Jul 2015		KEJ
GEOMETRIDAE					

<i>Archiearis infans</i>	Florence	Tie Mill Rd.	15 Apr 2015		RJT
<i>Leucobrephos brephoides</i>	Florence	Tie Mill Rd.	15 Apr 2015	17 Apr 2015	RJT, SCB
<i>Leucobrephos brephoides</i>	Marinette	Spike Horn Rd. near Pembine	13 May 2015		SCB
<i>Mellilla xanthometata</i>	Rock	Avon Bottoms WA	21 Aug 2015		LAF
<i>Macaria multilineata</i>	ROCK	Magnolia Bluff County Park	21 Aug 2015		LAF
<i>Digrammia denticulata</i>	BUFFALO	near Praag	1 Aug 2015		MO
<i>Orthofidonia tinctaria</i>	Vilas	Rummels Rd. 1.5 mi. W of Hwy. 45	15 May 2015		LAF
<i>Orthofidonia flavivenata</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	16 May 2015		LAF
<i>Cleora projecta</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	16 May 2015	4 Jun 2015	LAF
<i>Cleora projecta</i>	Marinette	Grandfather Lake Barrens	16 May 2015		LAF
<i>Cleora projecta</i>	VILAS	3 mi. N of Conover	15 May 2015		LAF
<i>Lycia ursaria</i>	IRON	Fortune Lake nr. US Hwy. 2	16 Apr 2015		RJT
<i>Euchlaena irrorata</i>	Florence	Ash Swamp NE of Hwys. N & B	23 Jun 2015		LAF
<i>Nepytia pellucidaria</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	5 Sep 2015		LAF
<i>Nepytia pellucidaria</i>	Marinette	N of Hwy. 8 on Dunbar Barrens Rd.	5 Sep 2015		LAF
<i>Triphosia haesitata</i>	MARINETTE	Parkway Rd. 6.0 miles S of Hwy. 8	11 Oct 2015		RJT
<i>Stamnodes gibbicostata</i>	CALUMET	High Cliff State Park	16 Sep 2015		KEJ
<i>Hydrelia lucata</i>	Marathon	Mud Lake Bog & Weston Twp.	24 Jun 2015		LAF
<i>Pasiphila rectangulata</i>	MARATHON	Mud Lake Bog & Weston Twp.	24 Jun 2015		LAF
URANIIDAE					
<i>Calledapteryx dryopterata</i>	FLORENCE	Ash Swamp NE of Hwys. N & B	23 Jun 2015		LAF
SATURNIIDAE					
<i>Eacles imperialis</i>	Waukesha	Oconomowoc	12 Jun 2015		JAE
<i>Actias luna</i>	Jefferson	Sullivan	10 Jun 2015		JAE
SPHINGIDAE					
<i>Dolba hyloeus</i>	IOWA	Arena (River Bottom Forest)	20 Jul 2015		LAF
<i>Lintneria eremita</i>	Columbia	Stack Rd. & Hillcrest Rd. 4 mi. N of Lodi	29 Jul 2015		SCB
<i>Lintneria eremita</i>	Trempealeau	Perrot State Park	7 Jul 2015		SCB
<i>Sphinx gordius</i>	KENOSHA	Bong State Recreation Area	17 Jun 2015		SCB
<i>Sphinx drupiferarum</i>	Florence	Spread Eagle Barrens (Overlook Rd.)	4 Jun 2015		LAF
<i>Hyles euphorbiae</i>	Trempealeau	Perrot State Park	7 Jul 2015		SCB
NOTODONTIDAE					
<i>Notodonta torva</i>	FLORENCE	1 mi. S of Long Lake	16 May 2015		LAF
<i>Notodonta torva</i>	Marinette	Grandfather Lake Barrens	16 May 2015		LAF
<i>Gluphisia avimacula</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	16 May 2015		LAF
<i>Dasylophia anguina</i>	KENOSHA	Bong State Recreation Area	17 Jun 2015		SCB
<i>Heterocampa subrotata</i>	Rock	Avon Bottoms WA	21 Aug 2015		LAF
EREBIDAE					
<i>Crambidia casta</i>	Marinette	N of Hwy. 8 on Dunbar Barrens Rd.	5 Sep 2015		LAF
<i>Spilosoma dubia</i>	Marinette	Grandfather Lake Barrens	16 May 2015		LAF
<i>Grammia phyllira</i>	Sauk	1.2 mi. SW of Spring Green	9 Sep 2015		SCB
<i>Macrochilo louisiana</i>	ROCK	Avon Bottoms WA	25 Jun 2015		LAF
<i>Parahypenodes quadralis</i>	IOWA	Arena (River Bottom Forest)	20 Jul 2015		LAF
<i>Phytometra ernestinana</i>	Sauk	Spring Green Preserve	19 Jul 2015		KEJ
<i>Ledaea perditalis</i>	Rock	Avon Bottoms WA	22 Jul 2015		LAF
<i>Scolecocampa liburna</i>	Iowa	Arena (River Bottom Forest)	20 Jul 2015		LAF
<i>Scolecocampa liburna</i>	Rock	Magnolia Bluff Park & Avon Bottoms	25 Jun 2015	22 Jul 2015	LAF
<i>Scolecocampa liburna</i>	Sauk	White Mounds Park	20 Jul 2015		RJT
<i>Calyptra canadensis</i>	KENOSHA	Bong State Recreation Area	17 Jun 2015		SCB
<i>Anomis erosa</i>	DOOR	Gravel Pit Rd. near Brussels	4 Nov 2015		SCB
<i>Anomis erosa</i>	GREEN	Albany Wildlife Area	4 Nov 2015		LAF
<i>Anomis erosa</i>	Rock	Magnolia Bluff County Park	4 Nov 2015		LAF
<i>Anomis erosa</i>	Sauk	Pine Hollow SNA	20 Oct 2015		SCB
<i>Anticarsia gemmatilis</i>	Manitowoc	Point Beach State Forest	23 Oct 2015		SCB

<i>Anticarsia gemmatalis</i>	SAUK	Pine Hollow SNA	20 Oct 2015		SCB
<i>Panopoda rufimargo</i>	ROCK	Magnolia Bluff County Park	22 Jul 2015		LAF
<i>Panopoda rufimargo</i>	Sauk	White Mounds Park	20 Jul 2015		RJT
<i>Panopoda carneicosta</i>	KENOSHA	Bong State Recreation Area	17 Jun 2015		SCB
<i>Panopoda carneicosta</i>	Richland	Lone Rock State Wildlife Area	22 Jul 2015		SCB
<i>Panopoda carneicosta</i>	SAUK	White Mounds Park	20 Jul 2015		RJT
<i>Zale horrida</i>	KENOSHA	Bong State Recreation Area	17 Jun 2015		SCB
<i>Zale horrida</i>	Sauk	White Mounds Park	9 Jun 2015		RJT
<i>Mocis texana</i>	GREEN LAKE	Berlin Fen	15 Sep 2015		SCB
<i>Catocala innubens</i>	TREMPEALEAU	Perrot State Park	21 Jul 2015		KEJ
<i>Catocala piatrix</i>	LAFAYETTE	Erickson Wetlands near Argyle	29 Aug 2015		SCB
<i>Catocala piatrix</i>	Sauk	Baraboo Hills (Hemlock Draw SNA)	15 Sep 2015		LAF
<i>Catocala epione</i>	Columbia	4 mi. N of Lodi	29 Jul 2015		SCB
<i>Catocala epione</i>	MARQUETTE	4th Ave & 4th Rd. Lake Burnita area	31 Jul 2015		SCB, KEJ
<i>Catocala epione</i>	RICHLAND	Lone Rock State Wildlife Area	22 Jul 2015		SCB
<i>Catocala antinympha</i>	Florence	Spread Eagle Barrens (Overlook Rd.)	5 Sep 2015		LAF
<i>Catocala antinympha</i>	Marinette	N of Hwy. 8 on Dunbar Barrens Rd.	5 Sep 2015		LAF
<i>Catocala residua</i>	KENOSHA	Bong State Recreation Area	5 Sep 2015		SCB
<i>Catocala insolabilis</i>	Dane	Swamp Lover's Preserve	18 Jul 2015		KEJ
<i>Catocala insolabilis</i>	Rock	Magnolia Bluff County Park	22 Jul 2015	21 Aug 2015	LAF
<i>Catocala insolabilis</i>	Sauk	Spring Green & White Mounds Pk.	19 Jul 2015	20 Jul 2015	KEJ, SCB, RJT
<i>Catocala insolabilis</i>	TREMPEALEAU	Perrot State Park	21 Jul 2015		KEJ
abundant; both bait & UV sheet					
<i>Catocala vidua</i>	GREEN LAKE	Berlin Fen	15 Sep 2015		SCB
<i>Catocala vidua</i>	Kenosha	Bong State Recreation Area	5 Sep 2015		SCB
<i>Catocala lacrymosa</i>	Kenosha	Bong State Recreation Area	5 Jul 2015		SCB
may now be resident, finding this species each year					
<i>Catocala subnata</i>	Columbia	4 mi. N of Lodi	29 Jul 2015		SCB
<i>Catocala subnata</i>	ROCK	Magnolia Bluff County Park	21 Aug 2015		LAF
<i>Catocala subnata</i>	Sauk	Baraboo Hills (Hemlock Draw SNA)	15 Sep 2015		LAF
<i>Catocala relictata</i>	Waukesha	Oconomowoc	20 Aug 2015		JAE
<i>Catocala semirelictata</i>	Florence	Jacquet Lake Bog	10 Aug 2015		LAF
<i>Catocala semirelictata</i>	Forest	Long Lake Rd. at Kingstone Creek	10 Aug 2015		LAF
<i>Catocala abbreviatella</i>	BUFFALO	Canada Ridge Prairies	17 Jul 2015		KEJ
<i>Catocala abbreviatella</i>	Pierce	Morgan Coulee Prairie	17 Jul 2015		KEJ
<i>Catocala abbreviatella</i>	Trempealeau	Perrot State Park	21 Jul 2015		KEJ
<i>Catocala nuptialis</i>	COLUMBIA	Prairie du Sac & S of Merrimac	29 Jul 2015		KEJ, SCB
<i>Catocala nuptialis</i>	Dane	S of Sauk City	29 Jul 2015		KEJ, SCB
<i>Catocala whitneyi</i>	Richland	Lone Rock WA	22 Jul 2015		SCB
<i>Catocala amestris</i>	MARQUETTE	4th Ave & 4th Rd. L. Burnita area	31 Jul 2015		SCB, KEJ
<i>Catocala amestris</i>	Richland	Lone Rock WA	22 Jul 2015		SCB
<i>Catocala amestris</i>	Sauk	Spring Green Preserve	19 Jul 2015		KEJ
<i>Catocala amestris</i>	Trempealeau	Perrot State Park	7 Jul 2015	21 Jul 2015	SCB, KEJ
<i>Catocala coccinata</i>	Marquette	4th Av. & 4th Rd. nr. Lake Burnita	31 Jul 2015		SCB
<i>Catocala coccinata</i>	Richland	Lone Rock State Wildlife Area	22 Jul 2015		SCB
<i>Catocala crataegi</i>	KENOSHA	Bong State Recreation Area	5 Jul 2015		SCB
<i>Catocala grynea</i>	Rock	Magnolia Bluff County Park	21 Aug 2015		LAF
<i>Catocala praeclara</i>	Florence	Spread Eagle Barrens (Overlook Rd.)	10 Aug 2015		LAF
<i>Catocala similis</i>	OCONTO	Twin Pine Rd. and Old Rt. 65	21 Aug 2015		RJT
<i>Catocala minuta</i>	Rock	Avon Bottoms WA	22 Jul 2015		LAF
<i>Catocala connubialis</i>	COLUMBIA	Stack Rd. & Hillcrest Rd. 4 mi. N of Lodi	29 Jul 2015		SCB
<i>Catocala connubialis</i>	Marquette	4th Av. & 4th Rd. nr. Lake Burnita	31 Jul 2015		SCB, KEJ
<i>Catocala connubialis</i>	RICHLAND	Lone Rock State Wildlife Area	22 Jul 2015		SCB
<i>Catocala connubialis</i>	ROCK	Magnolia Bluff County Park	22 Jul 2015		LAF

<i>Catocala connubialis</i>	TAYLOR	2.5 mi. W of Medford	5 Aug 2015	JFR
NOLIDAE				
<i>Nycteola frigidana</i>	FLORENCE	1 mi. S of Long Lake	16 May 2015	LAF
<i>Nycteola frigidana</i>	VILAS	3 mi. N of Conover	15 May 2015	LAF
NOCTUIDAE				
<i>Abrostola ovalis</i>	SAUK	White Mounds Park	9 Jun 2015	RJT
<i>Tricoplusia ni</i>	LAFAYETTE	Erickson Wetlands near Argyle	29 Aug 2015	SCB
<i>Diachrysia balluca</i>	KENOSHA	Bong State Recreation Area	17 Jun 2015	SCB
<i>Eosphoropteryx thyatyroides</i>	CRAWFORD	Airport Rd. near Ferryville	9 Sep 2015	SCB
<i>Eosphoropteryx thyatyroides</i>	SAUK	White Mounds County Park	20 Sep 2015	SCB
<i>Autographa californica</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	5 Sep 2015	LAF
<i>Syngrapha epigaea</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	5 Sep 2015	LAF
<i>Lithacodia musta</i>	IOWA	Arena (River Bottom Forest)	20 Jul 2015	LAF
<i>Lithacodia musta</i>	ROCK	Avon Bottoms WA	21 Aug 2015	LAF
<i>Acronicta tritona</i>	Marathon	Mud Lake Bog	24 Jun 2015	LAF
<i>Bagisara rectifascia</i>	BUFFALO	near Praag	13 Jun 2015	MO
<i>Acronicta lithospila</i>	IOWA	Arena (River Bottom Forest)	20 Jul 2015	LAF
<i>Acronicta lithospila</i>	Richland	Lone Rock State Wildlife Area	22 Jul 2015	SCB
<i>Psychomorpha epimenis</i>	Dane	Town of Oregon Park	17 Apr 2015	JDM
<i>Apamea vulgaris</i>	ROCK	Avon Bottoms WA	25 Jun 2015	LAF
<i>Melanapamea mixta</i>	FLORENCE	Jacquet Lake Bog	10 Aug 2015	LAF
<i>Oligia chlorostigma</i>	SAUK	Baraboo Hills (Pine Hollow SNA)	20 Jul 2015	LAF
<i>Neoligia crytora</i>	FLORENCE	Ash Swamp NE of Hwys. N & B	23 Jun 2015	LAF
<i>Meropleon diversicolor</i>	Kenosha	Bong State Recreation Area	5 Sep 2015	SCB
<i>Photedes panatela</i>	FLORENCE	Ash Swamp NE of Hwys. N & B	23 Jun 2015	LAF
<i>Photedes defecta</i>	IOWA	Arena (River Bottom Forest)	20 Jul 2015	LAF
<i>Capsula oblonga</i>	Kenosha	Bong State Recreation Area	5 Sep 2015	SCB
<i>Capsula laeta</i>	Richland	Lone Rock State Wildlife Area	22 Jul 2015	SCB
<i>Papaipema cataphracta</i>	DUNN	Big Beaver Creek SWA	14 Sep 2015	SCB
<i>Papaipema cataphracta</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema harrisii</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema harrisii</i>	LAFAYETTE	Erickson Wetlands near Argyle	29 Aug 2015	SCB
<i>Papaipema harrisii</i>	SAUK	White Mounds County Park	25 Sep 2015	SCB
<i>Papaipema impecuniosa</i>	Green Lake	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema leucostigma</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema lysimachiae</i>	DUNN	Big Beaver Creek SWA	14 Sep 2015	SCB
<i>Papaipema lysimachiae</i>	FOND DU LAC	Spruce Lake Bog near Dundee	7 Sep 2015	SCB
<i>Papaipema lysimachiae</i>	LAFAYETTE	Erickson Wetlands near Argyle	29 Aug 2015	SCB
<i>Papaipema pterisii</i>	OCONTO	Twin Pine Rd. and Old Rt. 73	21 Aug 2015	RJT
<i>Papaipema speciosissima</i>	FOND DU LAC	Spruce Lake Bog near Dundee	7 Sep 2015	SCB
<i>Papaipema baptisiae</i>	Fond du Lac	Spruce Lake Bog near Dundee	7 Sep 2015	SCB
<i>Papaipema baptisiae</i>	Green Lake	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema nepheleptena</i>	Green Lake	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema circumlucens</i>	DUNN	Big Beaver Creek SWA	14 Sep 2015	SCB
<i>Papaipema appassionata</i>	MARINETTE	NE of Hwy. U & Spur Lake Rd.	5 Sep 2015	LAF
<i>Papaipema furcata</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema necopina</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema silphii</i>	Columbia	Goose Pond Sanctuary	15 Sep 2015	KEJ
extremely abundant in prairie restoration				
<i>Papaipema silphii</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema maritima</i>	Oconto	Pensaukee	24 Sep 2015	KEJ
<i>Papaipema eupatorii</i>	DUNN	Big Beaver Creek SWA	14 Sep 2015	SCB
<i>Papaipema eupatorii</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB
<i>Papaipema nelita</i>	GREEN LAKE	Berlin Fen	15 Sep 2015	SCB

<i>Papaipema rigida</i>	Green Lake	Berlin Fen	15 Sep 2015		SCB
<i>Papaipema sciata</i>	COLUMBIA	Goose Pond Sanctuary	15 Sep 2015		KEJ
<i>Papaipema beeriana</i>	Green Lake	Berlin Fen	15 Sep 2015		SCB
<i>Hydraecia micacea</i>	LAFAYETTE	Erickson Wetlands near Argyle	29 Aug 2015		SCB
<i>Bellura gortynoides</i>	FLORENCE	Pine River Rd. W of Fay Lake	10 Aug 2015		LAF
<i>Bellura densa</i>	TREMPEALEAU	Perrot State Park	7 Jul 2015		SCB
<i>Energia infumata</i>	MARATHON	Mud Lake Bog & Weston Twp.	24 Jun 2015		LAF
<i>Phosphila turbulenta</i>	Rock	Avon Bottoms WA	21 Aug 2015		LAF
<i>Azenia obtusa</i>	ROCK	Avon Bottoms WA	25 Jun 2015		LAF
<i>Xylena nupera</i>	FOREST	Wildlife Rd. 0.2 mi. W of Hwy. 101	11 Oct 2015		RJT
<i>Homoglaea hircina</i>	Marinette	Spike Horn Rd. & Bull Dam Rd.	15 Apr 2015		RJT
<i>Lithophane semiusta</i>	FOREST	Wildlife Rd. 0.2 mi. W of Hwy. 101	11 Oct 2015		RJT
<i>Lithophane semiusta</i>	MARINETTE	Spike Horn Rd. & Bull Dam Rd.	15 Apr 2015	11 Oct 2015	RJT
<i>Lithophane patefacta</i>	MANITOWOC	Point Beach State Forest	23 Oct 2015		SCB
<i>Lithophane disposita</i>	MARINETTE	Jct. Parkway & Mirror Lake Rds.	1 Oct 2015		SCB
<i>Lithophane disposita</i>	Richland	Knapp Creek SWA	6 Oct 2015		SCB
<i>Lithophane sp. near disposita</i>	GREEN LAKE	Berlin Fen	15 Sep 2015		SCB
<i>Lithophane sp. near disposita</i>	Richland	Knapp Creek SWA	6 Oct 2015		SCB
<i>Lithophane oriunda</i>	Marinette	Spike Horn Rd. & Bull Dam Rd.	16 Apr 2015	1 Oct 2015	RJT, SCB
<i>Lithophane oriunda</i>	MANITOWOC	Point Beach State Forest	23 Oct 2015		SCB
<i>Lithophane thujae</i>	ONEIDA	Gobler Lake	12 Apr 2015		KEJ
<i>Lithophane baileyi</i>	Forest	Wildlife Rd. 0.2 mi. W of Hwy. 101	11 Oct 2015		RJT
<i>Lithophane baileyi</i>	Marinette	Spike Horn Rd. & Bull Dam Rd.	15 Apr 2015		RJT
<i>Lithophane querquera</i>	Sauk	Hemlock Draw and Pine Hollow	20 Mar 2015		KEJ
<i>Lithophane scottae</i>	Crawford	Hwy. 60 & Badger Rd.	6 Oct 2015		SCB
<i>Lithophane scottae</i>	POLK	Trade River Barrens	1 May 2015		KEJ
<i>Lithophane tepida</i>	Marinette	Spike Horn Rd. & Bull Dam Rd.	15 Apr 2015		RJT
<i>Lithophane tepida</i>	Vilas	Rummels Rd. 1.5 mi. W of Hwy. 45	15 May 2015		LAF
<i>Lithophane georgii</i>	FLORENCE	Wisconsin Creek Rd.	15 Apr 2015		KEJ
STATE RECORD					
<i>Lithophane georgii</i>	VILAS	Rummels Rd. 1.5 mi. W of Hwy. 45	15 May 2015		LAF
<i>Lithophane thaxteri</i>	Forest	Wildlife Rd. 0.2 mi. W of Hwy. 101	11 Oct 2015		RJT
<i>Metaxaglaea inulta</i>	Crawford	Hwy. 60 & Badger Rd.	6 Oct 2015		SCB
<i>Metaxaglaea inulta</i>	GREEN LAKE	Berlin Fen	15 Sep 2015		SCB
<i>Epiglaea decliva</i>	GREEN	Albany Wildlife Area	4 Nov 2015		LAF
<i>Epiglaea decliva</i>	Manitowoc	Point Beach State Forest	23 Oct 2015		SCB
<i>Epiglaea decliva</i>	Rock	Magnolia Bluff County Park	6 Oct 2015		LAF
<i>Brachylochia algens</i>	IOWA	Arena (River Bottom Forest)	20 Jul 2015		LAF
<i>Brachionycha borealis</i>	Marinette	Spike Horn Rd. near Pembine	15 Apr 2015	13 May 2015	RJT, SCB
<i>Psaphida rolandi</i>	FLORENCE	Roach Fire Lane	16 May 2015		LAF
<i>Sideridis maryx</i>	FLORENCE	Homestead Twp.	23 Jun 2015		LAF
<i>Coranarta luteola</i>	Langlade	Camp Lake Bog	13 May 2015		KEJ, SCB
<i>Coranarta luteola</i>	VILAS	Hermanson Springs Peatland	21 May 2015		KEJ
<i>Agrotis volubilis</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	4 Jun 2015		LAF
<i>Eucloptocnemis fimbriaris</i>	Sauk	1.2 mi. SW of Spring Green	9 Sep 2015		SCB
<i>Euxoa obeliscoides</i>	BUFFALO	near Praag	28 Jun 2015		MO
<i>Euxoa niveilinea</i>	Sauk	1.2 mi. SW of Spring Green	9 Sep 2015		SCB
<i>Dichagyris grotei</i>	ROCK	Magnolia Bluff County Park	21 Aug 2015		LAF
<i>Graphiphora augur</i>	KENOSHA	Bong State Recreation Area	11 Jul 2015		SCB
<i>Xestia badicollis</i>	OCONTO	Twin Pine Rd. and Old Rt. 80	21 Aug 2015		RJT
<i>Xestia dilucida</i>	Florence	Spread Eagle Barrens (Overlook Rd.)	10 Aug 2015	5 Sep 2015	LAF
<i>Xestia dilucida</i>	OCONTO	Twin Pine Rd. and Old Rt. 81	21 Aug 2015		RJT
<i>Paradiarsia littoralis</i>	FLORENCE	Spread Eagle Barrens (Overlook Rd.)	23 Jun 2015		LAF
<i>Cerastis fishii</i>	Vilas	Rummels Rd. 1.5 mi. W of Hwy. 45	15 May 2015		LAF

<i>Aplectoides condita</i>	Florence	Spread Eagle Barrens (Overlook Rd.)	23 Jun 2015	LAF
<i>Ufeus plicatus</i>	GREEN	Sugar River: Judy Douglas Preserve	13 Mar 2015	KEJ
<i>Eutricopis nexilis</i>	PRICE	Riley Lake uplands	21 May 2015	KEJ
first documented STATE RECORD, but previously sighted here (KEJ in 2006)				
<i>Pyrrhia cilisca</i>	Trempealeau	Perrot State Park	7 Jul 2015	SCB
<i>Heliiothis acesias</i>	La Crosse	Holland Sand Prairie	22 Jul 2015	KEJ
<i>Heliocheilus lupatus</i>	BUFFALO	near Praag	5 Sep 2015	MO
<i>Heliiothis borealis</i>	Price	Riley Lake Bog	21 May 2015	KEJ
<i>Schinia arcigera</i>	Dane	Capital Springs Dog Exercise Area	21 Aug 2015	JDM
<i>Schinia indiana</i>	Jackson	Black River State Forest	28 May 2015	3 Jun 2015 SAS
<i>Schinia indiana</i>	Burnett	Crex Meadows; Burnett CF	25 May 2015	SAS
<i>Schinia lucens</i>	BUFFALO	Canada Ridge Prairies	17 Jul 2015	SAS
<i>Schinia lucens</i>	Sauk	Spring Green Preserve	13 Jul 2015	SAS
<i>Schinia lucens</i>	Iowa	Thousand's Rock Point II Prairie	14 Jul 2015	SAS
<i>Schinia nundina</i>	Richland	Lone Rock State Wildlife Area	22 Jul 2015	SCB

WES Summer 2016 Meeting

Join us at spectacular **Perrot State Park** on **Sunday, July 31st** for a day (or more) of insect fun!

The indoor meeting will be held from 1 p.m. to 4 p.m. in the park's nature center, will feature several talks, and offers a chance to mingle with fellow insect enthusiasts. Talk titles are pending (if you would like to contribute, please e-mail Kyle Johnson or PJ Liesch), but will include themes of the "Driftless Area" of western Wisconsin (and adjacent states) and the park itself.

Afterwards we will head to Sullivan's Supper Club for dinner.

Be sure to enjoy the wonders of the park itself! Beyond spectacular scenery, the park offers a wide variety of habitats from

steep bluff prairies and rich deciduous forests to the mighty Mississippi River.

Field activities range from casual enjoyment of the park by day to all-night blacklighting. Potential dates are from Friday, July 29 through Tuesday, August 2 but will ultimately depend on weather and member interest (please contact Kyle Johnson). The dates are near the new moon and should offer a diverse show of nocturnal insects; they also allow us to participate in National Moth Week.



NOTES

–Nature center is located at: 44.02568°N, 91.48488°W. A park map is available at the park headquarters or at:

<http://dnr.wi.gov/topic/parks/name/perrot/pdfs/perrotparkmap.pdf>

–Park stickers are required for all vehicles; these are available at the park office.

–If you plan to collect specimens, please contact Kyle Johnson (requires park permission).

–Sullivan’s Supper Club: W25709 Sullivan Rd, Trempealeau, WI 54661:

<http://sullivanssupperclub.com/>

If you have any questions, feel free to e-mail Kyle Johnson or PJ Liesch.

Color Matching Eggs

A common pentatomid (stink bug), *Podisus maculiventris*, has been found to possess the ability to change the pigmentation color of its egg clutches in order to closely match them to the selected oviposition site. During experiments, lighter-colored eggs were laid on the undersurfaces of soybean plants, while darker-colored eggs were laid on the upper surfaces. In the latter case, pigmentation further acted as a sunscreen to reduce

penetration by ultraviolet rays. This is the first known example of an animal’s ability to modify the color of its eggs at will. How the change of pigmentation is produced remains unknown. This research was conducted by Paul K. Abram, a Ph.D. candidate in entomology at the University of Montreal. See Adam Hadhazy, “Matching Colors,” *Natural History*, October 2015, 6.

Caffeine Tolerance

How the Coffee Berry Borer, a scolytine beetle named *Hypothenemus hampei*, is able to spend the majority of its life inside caffeine-laced green coffee beans, has now been understood. A species of caffeine-metabolizing bacteria living in the beetle’s gut, *Pseudomonas fulva*, has been found to possess a gene that successfully accomplishes this task, harmlessly breaking down the otherwise poisonous substance. This work was accomplished by a team of researchers led by Javier Ceja-Navarro at the Lawrence Berkeley National Laboratory. Perhaps future applications await! See Ashley Braun, “Gut Reaction,” *Natural History*, October 2015, 7.
