



Wisconsin Entomological Society

Newsletter

Volume 40, Number 1

March 2013

There's something about the Neuroptera that just fascinates me. Maybe it has to do with their graceful flight or delicate wings. Perhaps, it could be something to do with their location on the phylogenetic tree next to two of my other favorite groups (the Coleoptera and Megaloptera). It could just be the fact that they look cool. Ask any entomologist what their favorite insects are, and they'll probably name an obscure family or

Dustywings: Tiny, Cute, and Obscure!

By P.J. Liesch, UW-Madison Dept. Entomology

tribe of *this* and *that*. For me, I can easily say that the Dustywings (Neuroptera: Coniopterygidae) are some of my favorites. They seem to have all the qualities an entomologist would love--: they're tiny, cute, and obscure!

Ironically, I knew close to nothing about dustywings until two years ago while conducting an experiment on some white cedar nursery stock shipped in from Sturgeon Bay, WI. It turns out that the nursery stock had a small but noticeable population of dustywings. If you've never seen a dustywing before, these insects are just a few millimeters long and are covered with a whitish dust. Seeing small, whitish insects on my greenhouse plants immediately had me thinking of whiteflies (Aleyrodidae). Sticking a few under the mi-

croscope had me scratching my head. The wings and body somewhat resemble a barklouse, while other aspects reminded me of Trichoptera, Neuroptera, and even Hymenoptera. It was one of those times when I had to haul out an ordinal key just to figure out where to start.

I eventually figured out that the population consisted of both adults and larvae of the Coniopterygid: *Conwentzia pineticola* Enderlein. There were plenty around, so I saved a few for my own collection and donated the rest to the UW-Madison IRC. According to the literature, dustywings are rarely seen or collected. *Conwentzia pineticola* has been collected before in Wisconsin, and Throne (1972) mentions 69 specimens from the state, mostly from light trapping. From my

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The Wisconsin Entomological Society Newsletter is published three times a year, at irregular intervals. The newsletter is provided to encourage and facilitate the exchange of information by the membership, and to keep the members informed of the activities of the organization. Members are strongly encouraged to contribute items for inclusion in the newsletter. Please send all news items, notes, new or interesting insect records, season summaries, and research requests to the editor by Jan. 15, May 15, or Sept. 1st:

J. Mingari, P.O. Box 105, New Holstein, WI 53061, email: dragonflypond@tds.net (Put WES in subject line)

NOTE: Please report any address changes to Les Ferge, 7119 Hubbard Ave., Middleton, WI 53562, email: lesferge@gmail.com

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nursery stock alone, I was able to collect and observe roughly 20 specimens. Since my first encounter, I've bumped into dustywings another 10 or so times. There's something about the way that they flutter when they fly that lets me know that the small white speck is a dustywing. This spring and summer I've collected a handful of *C. pineticola* specimens around Madison (usually near cedars of some kind). I even had one hitch a ride on the windshield of my car for half a mile until I had a chance to pull over in

a parking lot and pop it into a vial. While I haven't seen the numbers that I had on my nursery stock, I did have a night this summer when I found four adults at the same time at one of my porch lights. After dissection of the genitalia, I identified those as my second dustywing species to date: *Semidalis inconspicua* Meinander.

If you haven't seen dustywings before, Bugguide has a pretty good selection of pictures: [http://bugguide.net/node/](http://bugguide.net/node/view/11949)

[view/11949](http://bugguide.net/node/view/11949). Keep an eye out for small, white fluttering dots, next time it could just be a dustywing!

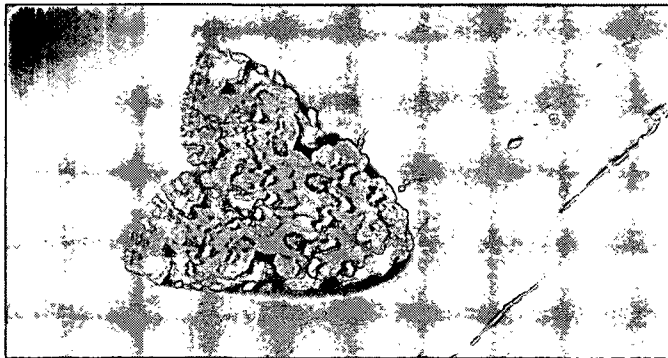
Literature Cited:
Throne, A . 1972. The Neuroptera — suborder Planipennia of Wisconsin Part III — Mantispidae, Ascalaphidae, Myrmeleontidae and Conipoteriygidae . *Great Lakes Entomol.* 5(4): 119-128.

First-Come...

Larry Phelps has six California Academy Drawers that he's finally ready to admit he will not be using. (19 x 17 x 2.5 inches with glass tops). One is gently used, the other five are in new condition. He got them as kits from BioQuip and assembled them with care. "I would be happy to give them to some collector who is willing to drive to their location in rural Sauk County." Contact:

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Mystery Insect



Leuconycta diphteroides (Guenee)
(Lepidoptera: Noctuidae) AKA Green Leuconycta

Jordan Marché, Gene Drecktrah, and Ron Huber responded with correct ID to last fall's mystery insect.

Jordan commented that "The large, truncated and inverted triangle on the forewing, and the smaller version beside it, appear quite diagnostic of the species. I have one from Dane County in my collection, plus another from Indiana." Gene observed that he "could not find a single specimen of this species in the UW-Oshkosh Insect Collection." And Ron noted that "Although there are records for it here in Minnesota, I have never been lucky enough to find one."

Occurrence of *Anthidium oblongatum* (Apoidea: Megachilidae) in Southern Wisconsin

By Jordan D. Marché II

On 19 September 2009, a somewhat-worn female specimen of a then-unknown bee was collected on goldenrod (*Solidago* sp.) at the Town of Oregon Park, Dane Co., Wisconsin (Fig. 1). Although belonging to the Megachilidae, the specimen bore abdominal markings that were unlike any that I had seen on other domestic bees, and its identity remained a puzzle for some time. Clues to its identity were finally obtained through comparison of the specimen to a photograph (Fig. 9, p. 565) in Marshall (2006), which revealed that it might be an introduced species of wool-carder bee,

native to Europe. Subsequently, its identity has been confirmed as the Palearctic species, *Anthidium oblongatum* (Illiger), using the key furnished by Miller, et al. (2002) to the four known species of *Anthidium* found in northeastern North America (two introduced and two domestic species). More recently, the species has been confirmed as established in the adjoining State of Michigan (O'Brien, Swanson, and Monsma, 2012).

A. oblongatum was first discovered in North America (eastern Pennsylvania) in 1995, and has since been found in New York, New Jersey, and Maryland,

along with Ohio and Michigan. Through 2002, however, casual examinations of likely sites in southern Wisconsin and near St. Louis, Missouri, had not turned up any specimens (Miller, et al., 2002, p. 67). Thus, it appears that this capture represents the first known occurrence of *A. oblongatum* in Wisconsin. Another closely-related species, *A. manicatum* (Linnaeus), was introduced to New York State sometime before 1963 and by 1990 had spread to Ontario, Canada (Miller, et al., 2002, p. 65). In turn, two native species, *A. psoraleae* Robertson (which is found chiefly in central U.S. prairies), and *A. maculifrons* Smith (primarily a species of the southern U.S.), each belong to the same genus and presumably follow broadly similar lifestyles. I have not inquired whether specimens of either of the two domestic species have been taken before in Wisconsin.

Wool-carder bees are so named because of the practices of female bees to collect and transport downy leaf pubescence as nest-building material. Preferred plants of *A. manicatum* include Woolly Lamb's Ears, Foxglove Beardtongue, Rus-



Fig. 1. Female specimen of *Anthidium oblongatum*, captured 19 Sept. 2009 at Town of Oregon Park, Dane Co., WI. Photo by J. D. Marché II.

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sian Sage, and Dusty Miller. The latter is also a preferred plant of *A. oblongatum*. Marshall (2006, p. 565, Figs. 7, 8) presents two photos of a female *A. manicatum* returning to stock a small cavity nest with just such downy material. It is hypothesized that one or both species were inadvertently introduced through the importation of wooden pallets. Both species belong to the subfamily Megachilinae and tribe Anthidiini (Arnett, 2000, p. 604).

Females of *A. oblongatum* lack a projection on the posterior margin of tergum 6 (possessed by *A. psoraleae*). However, they exhibit an elevated ridge (or lamella) on the pronotal lobe that is clearly defined in the specimen at hand. (Miller, et al., 2002, p. 68). The basal mandibular tooth in *A. oblongatum* is also larger than the apical mandibular tooth, although that feature could not be examined on this specimen (as mounted), because the mandibles are crossed and the basal areas are hidden from view.

Despite considerable searching conducted over the past three field seasons (2010, 2011, and 2012), at the same as well as other localities where goldenrod is abundant, no other specimens of *A. oblongatum* have been seen or collected. Nor has an attempt yet been made to seek out its preferred 'host' plant(s). Thus, no claim can be made at present that *A. oblongatum* is established in southern Wisconsin. It is likely premature (as well) to express concerns over the potential impact in our area of this introduced species upon native bees of the same genus. The singular capture of this female specimen that was seemingly collecting pollen rather than nesting material, might have been due to a chance encounter with a non-resident species. Declaring whether *A. oblongatum* has become established in our territory will depend upon the capture of additional specimens in the future. I welcome news of any such sightings from interested readers.

Literature Cited

Arnett, Ross H., Jr. (2000). *American Insects: A Handbook of the Insects of America North of Mexico*, 2nd ed. Boca Raton, Florida: CRC Press.

Marshall, Stephen A. (2006). *Insects: Their Natural History and Diversity*. Buffalo, New York: Firefly Books.

Miller, Shane R., et al. (2002). "Occurrence of Two Species of Old World Bees, *Anthidium manicatum* and *A. oblongatum* (Apoidea: Megachilidae), in Northern Ohio and Southern Michigan." *The Great Lakes Entomologist* 35, no. 1: 65-69.

O'Brien, Mark F., Daniel R. Swanson, and Jeremy Monsma (2012). "*Anthidium oblongatum* (Apoidea: Megachilidae) Confirmed as a Michigan Resident, with Notes on Other Michigan *Anthidium* Species." *The Great Lakes Entomologist* 45, nos. 1-2: 102-105.



One of the reasons I love going to WES meetings is to hear news from our members. At the last one there were a few books recommended by attendees. Jerrfey Glassberg's **Swift Guide to Butterflies of North America** complements his similar work on Mexican and Central American species discussed here earlier (thanks for the suggestion, Karl), where "swift" means you can quickly ID your find using photos and range maps, but not a lot of text. **Checklist of the Beetles of Maine** by C. Majka et al. is mostly useful for that state and surrounding region, but should be of interest to all coleopterists (thanks for the suggestion, Peter). I wish we had something like that for Wisconsin. **Insects of New England & New York** by T. Murray is a guide from the New England Naturalist Series, which is similar to North Woods Naturalist Series and American Naturalist Series covered here before (to confuse the matter, Butterflies of New England was issued under North Woods Naturalist Series). **Flies: The Natural History and Diversity of Diptera** by S. Marshall is quite unusual: most books dealing with natural history of insects have lots of data, graphs and drawings, but this book also doubles as a photo ID guide (with more than 2000 photos), allowing a reader to identify most of the flies at least to a genus level. I've come across yet another book for fishermen - **Caddisflies: A Guide to Eastern Species for Anglers & Other Naturalists** by T. Ames. Similar to previously mentioned books on mayflies and other aquatic insects, it has detailed descriptions, photos of adults, larvae and pupal cases of over 100 species of these insects. Make sure you beat those anglers to a bookstore! There are also several handy pocket guides to aquatic insects from the series called **Orvis Streamside Guide**: while most of them deal with knots, tippets, fly-casting and other fishermen issues, three books cover insects and have small color photos of a number of species: **Trout Stream Insects**, **Mayflies: Illustrated Reference to the Most Important Hatches of**

North America and **The Caddisfly Handbook**, all by D. Pobst. If you're a spider fan (yes, there are people like that!), new book just came out: **Common Spiders of North America** by R. Bradley. The book has illustrations of 469 North American species, although personally, I always prefer photos to the best colored pictures. To research the spider subject deeper, **Fossil Spiders: The Evolutionary History of a Mega-diverse Order** by P. Selden is very helpful to arachnologist and paleontologist alike. Disgusted by spiders?

BOOKS & WEBSITES
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Books & Websites

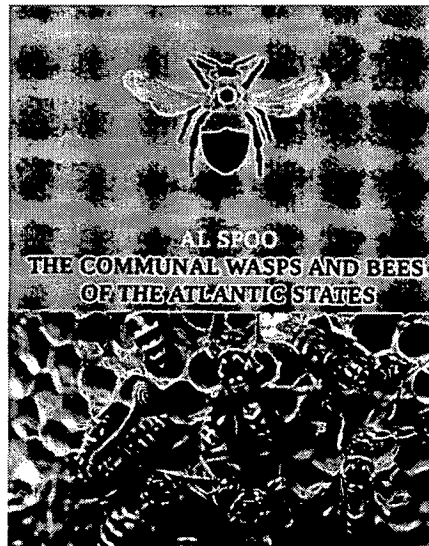
By Andrew Khitsun

Book Review

By Jordan D. Marché II

Book Review: Al Spoo, *The Communal Wasps and Bees of the Atlantic States (Maine to Georgia)*. Landisville, Penn.: Coachwhip Publications, 2012. 146 pp.

Available from the author (20 Kurtz Drive, Lititz, PA 17543; alspoo@juno.com): \$47.00 plus \$4.00 shipping; Penn. residents add \$2.82 sales tax.



This guidebook fulfills a long-standing need for a reference work that provides accurate identifications of the common social wasps (Vespidae) and bees (Apidae) of the eastern U.S. Forty-eight species, including 16 Vespinae, 11 Polistinae, 19 Bombinae, 1 Apinae, and 1 Xylocopinae (included because it is often mistaken for a bumblebee by casual observers) are featured in this work that is written *and* illustrated by Lancaster County, PA naturalist Al Spoo. Before the appearance of this work, comparable taxonomic information (i.e., illustrations and descriptions) was only available on the Internet, e.g., the *Canadian Journal of Arthropod Identification*.

Seemingly the leading feature of this work is the plethora of illustrations that accompany each identified species. In fact, for each *caste* of wasp or bee, three relatively large-format illustrations are provided: a dorsal habitus, left lateral view, and a frontal view of the head. In addition, for the subfamilies Vespinae and Polistinae, smaller-scale illustrations of the *abdomens* of each caste are grouped together on individual pages, while for the Bombinae, comparable illustrations of dorsal and lateral views of all queen and male species are correspondingly assembled.

Yet, this comprehensive volume is no mere 'spot' or 'instant' identification guide. Full-page, detailed descriptions are provided for each species and its castes. Lists of food, types of nests constructed, known geo-

graphic ranges, related species, and short notes accompany each description. The systematics of all described species are tabulated on pp. 6-7. This is followed by an anatomical glossary and illustrations (pp. 8-14) that highlight differences in the heads, legs, and wing venations of the principal genera. Narrative introductions are also provided to the families Vespidae and Apidae. The latter contains drawings and instructions for the collection and rearing of colonies of bumblebees, which the author has successfully practiced since he was a teenager. A short list of "resources" (or bibliography) and a species index complete the more technical aspects of the book.

Some minor shortcomings are noted, chiefly concerning the volume's layout, because the color plates do not always appear directly opposite from the described species. This is only the case within the Vespinae, however, because of the need to illustrate all three castes of each species. Minor misspellings occur for three species on p. 16 ("malcifrons," "austrica," and "crabo" for "maculifrons," "austriaca," and "crabro," respectively), and "grisecollis" or a variation for "griseocollis" on pp. 87, 88, and 91. [All species names appear correctly in the systematic table and individual descriptions, however.]

The volume's author is a retired electrician, sheet-metal worker, and self-taught

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The Communal Wasps and Bees...

naturalist-illustrator, whose academic career has blossomed enormously in recent years. He has produced three other volumes, all from the same publisher, including a two-volume compilation of the newspaper columns that he has written and illustrated (*Nature Notes* and *Nature Notes 2*), plus a taxonomic guidebook to *The Pearly Mussels of Pennsylvania*. A complementary volume to this one, on the solitary wasps and bees of the Atlantic region, may also be in the works!



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Citizen Science: Monitor a state-endangered butterfly

Become a regal fritillary monitor volunteer – do some science while enjoying nature and supporting an endangered species! The summer of 2013 will be our fourth season in a long-term program to monitor regal fritillary presence on remnant and restored prairies in the Military Ridge Prairie Heritage Area of eastern Iowa County and western Dane County.

The regal fritillary is listed as a Federal Species of Concern. Once widespread, it has nearly disappeared from east of the Mississippi. In Wisconsin it is listed as Endangered due to low or declining populations and is considered critically imperiled because of its vulnerability to extinction within the state. Occurrences have been documented in 14 counties in Wisconsin through the Natural Heritage Inventory program, but currently there are only three or four areas where potentially viable populations still persist.

To maintain the open prairie habitat these butterflies require, the land must be managed through controlled burns, mowing, and/or mechanical clearing of woody growth, all of which have the potential to positively or negatively impact regal fritillary populations. The monitoring program will improve our understanding of how regals respond to management of prairie remnants and creation of new habitat.

Would you like to participate? No previous experience is required, just a love of the outdoors and tolerance for hot sunny days. Training is provided. If possible, we are looking for a commitment over several summers. The monitoring program runs approximately June 15-July 31 with each monitoring team making three visits to their site spaced a week or more apart. The training program has an off-site and a field component. Training opportunities will start in May. Please join us in this important endeavor! Contact Ruth Kearley (rekearley@gmail.com) or (608) 729-4050 to sign up or to learn more.

Citizen Science: Survey prairie violet populations

Enjoy spring on the prairie and do science at the same time! The caterpillars of the state-endangered regal fritillary butterfly eat only violet species in open habitat. We need volunteers to help with surveys to find where these violets are located and estimate their abundance on our preserves that host regal fritillaries. This information is crucial to determining how the violets (prairie, birds-foot, marsh, and common wood) respond to management such as burning, mowing, and grazing so we know how best to focus our efforts. The surveys will be done in May when the violets are in bloom, on lands within the Military Ridge Prairie Heritage Area of western Dane and eastern Iowa counties. If you are interested in becoming a violet monitor trained in quantitative survey methods, contact Ruth Kearley at rekearley@gmail.com or (608) 729-4050.



WES Spring Meeting

Friday, April 26 through Sunday, April 28
(main meeting on Saturday at noon)
Navarino State Wildlife Area, Shawano County

Join us for a weekend of insect fun in the great outdoors! The festivities start at 6:00pm Friday as we get ready for insect night life. Saturday morning we'll explore the trails near the meeting area. At noon the "main meeting" will feature good food and bug chat beneath the pines and hardwoods...bring a folding chair if you have one! Bring hard copy pictures, papers, books, or stories to share. Also bring ideas of potential new directions for the society, especially ways to gain new members. After the "main event" we'll have ample time to wander Navarino's many interesting habitats- from oak-pine forests and sand barrens to peatlands. The meeting will go all the way through Sunday night/Monday morning. Feel free to join any or all of these times!

For those staying overnight, we have special permission to camp (and don't let a lack of gear stop you- some of us have extra). If you would prefer a motel there are nearby accommodations in Clintonville, Shawano, and Bonduel.

Please email (kejohnson4@wisc.edu) or call (920-639-8390) Kyle Johnson if you plan to attend. We need to coordinate field activities, food, and even chairs! In the event of bad weather (heavy rain, extreme cold) we will reschedule later in summer.

Directions to main event/parking/camping area: From the town of Navarino head 3.2 miles WEST on highway WI-156 to McDonald Road (or if coming from the West/South, go 2 miles EAST on WI-156 from the junction of highways WI-187 and WI-156). Go NORTH on McDonald Road for 1.5 miles. We'll be in the parking area on the WEST side of the road (44.64783°N 88.54497°W) If you have questions contact Kyle Johnson.

2013 dues notices were sent out in January. Members paid for 2013 or beyond were not billed, and will not receive a dues notice. Remember that your current dues status appears on the newsletter address label after your name. Your prompt attention will be most appreciated.

Membership Dues

Individual or Family	Sustaining	Patron
\$10 per year	\$15 per year	\$25 per year

Please note that the year through which dues are paid appears on the newsletter's mailing label after your name.

Please make checks payable to WES and send to
Les Ferge, Treasurer,
7119 Hubbard Ave., Middleton, WI 53562-3231

<http://wisentsoc.org/>

2012 Wisconsin

Lepidoptera

SEASON SUMMARY

Compiled by Les Ferge

Contributors Cited:

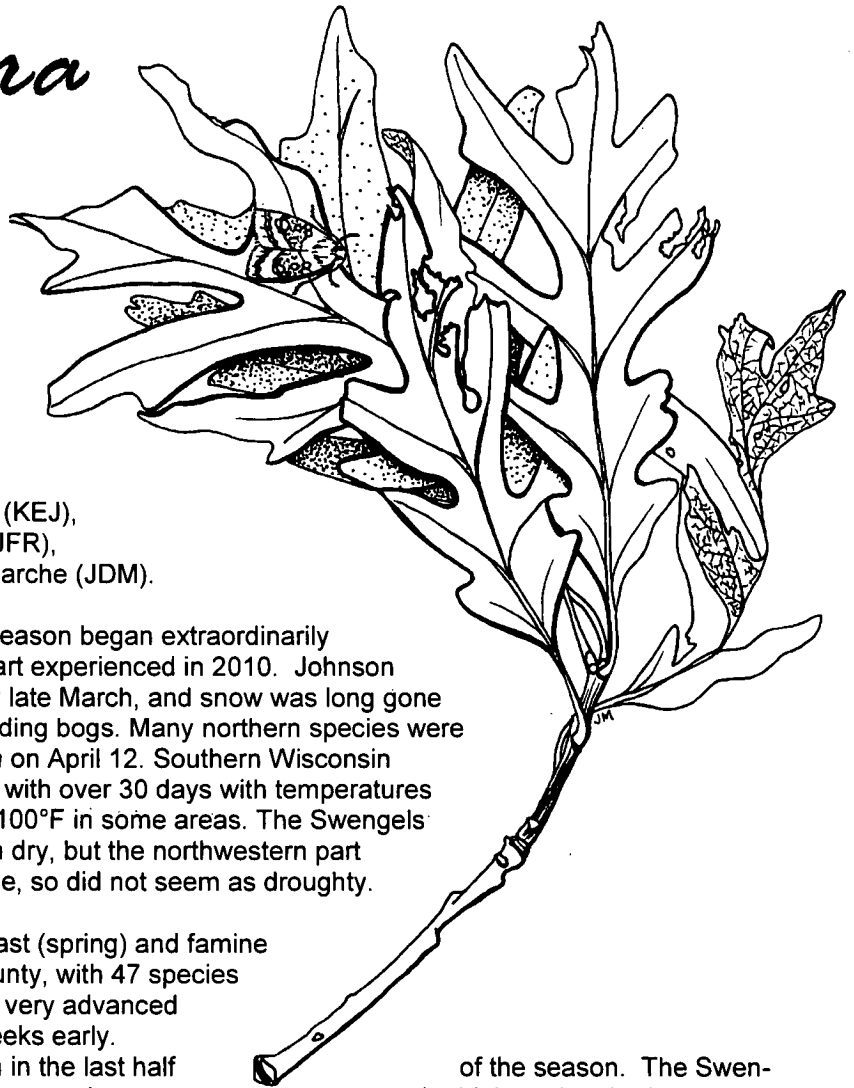
Robert J. Borth (RJB),
 Steven C. Bransky (SCB),
 James A. Ebner (JAE),
 Leslie A. Ferge (LAF),
 Gerald W. Goth (GWG), Kyle E. Johnson (KEJ),
 Philip J. Pellitteri (PJP), Joan F. Rickert (JFR),
 Scott & Ann Swengel (SAS), Jordan D. Marche (JDM).

After an unusually mild winter, the 2012 season began extraordinarily early, exceeding even the record early start experienced in 2010. Johnson noted that willow catkins were peaking by late March, and snow was long gone from all northern Wisconsin habitats including bogs. Many northern species were a month or so early, such as *Boloria freija* on April 12. Southern Wisconsin endured record heat and severe drought, with over 30 days with temperatures above 90°F and several days exceeding 100°F in some areas. The Swengels found northeastern and central Wisconsin dry, but the northwestern part received substantial rains in May and June, so did not seem as droughty.

Ebner characterized 2012 as a year of feast (spring) and famine (summer) for butterflies in Waukesha County, with 47 species found over a 218 day period. He noted a very advanced spring with some species three to four weeks early.

Butterfly numbers were significantly down in the last half of the season. The Swengels reported species richness of butterflies per day was the highest they had ever seen from March through almost mid-July. The Swengels produced 40 species. Fourth of July Counts averaged over 53 species and two were just half days. Moth abundance was generally good until the mid-summer drought hit, with a slight recovery in late summer/early fall.

Southern stays were phenomenal throughout the season. A number of butterfly species appeared on record early dates in mid to late May, and were found in numbers far northward in the state. *Hylephila phyleus* was reported in Jackson County on 16 May (SAS), and was found in numbers until 26 September in Waukesha County (JAE). *Atalopedes campestris* had its best year ever, extending throughout Wisconsin and found in higher than usual numbers. Records ranged from 28 July in Douglas Co, 18-25 August in Portage County and 22- 29 August in Sauk Co (SAS). It was present continuously in Waukesha County from 6 August to 17 October (JAE). *Battus philenor* was reported from four counties, with its northernmost occurrence in Taylor County (JFR). One individual of *Pontia protodice* was reported on 3 July in Monroe County, and a single *Colias cesonia* was found on 27 June in Devil's Lake SP, Sauk County (SAS). *Eurema lisa* spread statewide, found from 23 May in Waukesha County (JAE), reaching Bayfield County by 22 June, Burnett County on 13 July (SAS) and persisting in Iowa County until 16 September (LAF). *Abaeis nicippe* was present on 16 September in the exact Iowa County locality it occurred at in 2007 and 2010 (LAF). *Nathalis iole* was recorded on 27 June in Sauk County and spread into Douglas County by 28 July (SAS). *Strymon melinus* was above-average, found as single individuals statewide, in Wood County on 11 May, Jackson County on 16 May,



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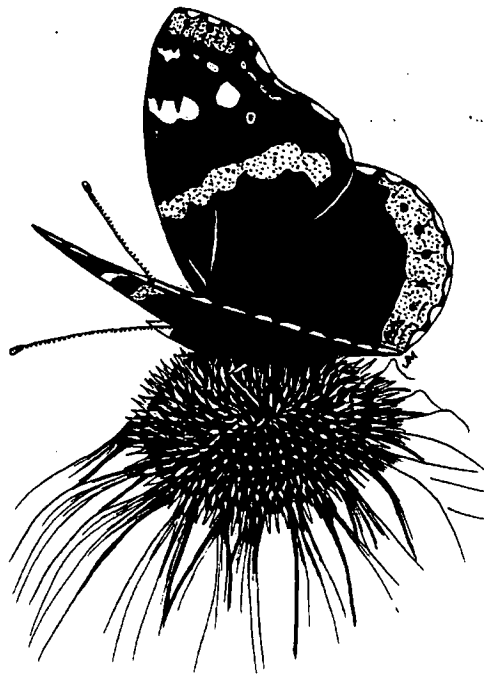
LEPIDOPTERA from page 9

Douglas County on 8 July and Burnett County on 13 July. *Euptoieta claudia* was widespread, appearing in above-average numbers but mostly in the first half of the season, from 11 May in Jackson County to 20 July in Portage County. It was found in Bayfield, Burnett, Crawford, Dane, Douglas, Forest, Green, Green Lake, Marinette, Monroe, Sauk and Wood Counties (SAS). *Polygonia interrogationis* moved northward in spring, being recorded in Jackson County on 14 May and Florence and Vilas Counties on 3 June (LAF). *Vanessa* species were unremarkable. *V. cardui* was found statewide, mainly as single individuals, with most records earlier in the season. Dates ranged from 4 May in Monroe County to 20 July in Portage County (SAS) and 7 September in Waukesha County (JAE). *V. atalanta* and *V. virginensis* occurred in low numbers. *Junonia coenia* appeared early and in above-average numbers throughout Wisconsin. It was found in Jackson County on 16 May, Burnett County on 25 May and Bayfield County on 9 June (SAS), and was last reported in Waukesha County on 16 September (JAE). It was also recorded in Adams, Ashland, Columbia, Crawford, Douglas, Forest Green, Green Lake, Marquette, Monroe, Oconto, Portage and Sauk Counties (SAS). The arrival of *Danaus plexippus* was the earliest on record, with several individuals first reported in Dane County on 3 May (JM). In Waukesha County monarchs had an extremely poor year, very few observed, especially as summer progressed. The last one seen was on 4 October (JAE).

Immigrant moth species also had a good season. *Mythimna unipuncta* and *Peridroma saucia* arrived in Rock County from the south on 12 March, a full month earlier than available previous records. They lasted until 21 November at that locality (LAF). *Megalographa biloba* was common from south to north by mid-April, reaching Lincoln County on 7 April, Dunn County by 13 April (KEJ), Taylor County on 23 April (JFR), Shawano County on 29 April (KEJ) and many individuals found in Dane County on 3 May (LAF). *Rachiplusia ou*, previously seen as a late-season

stray, was recorded in Dane County 3-11 May (LAF). By mid-summer rare historical strays such as *Spodoptera exigua* and *Elaphria chalconia* were virtually ubiquitous in the southern part of the state (KEJ). September and October were quite productive for strays. Three new state records were reported: *Glenoides texanaria*, *Melipotis jucunda*, and *Micrathetis triplex*, all from Rock County. Other infrequently seen strays included *Tetanolita mynesalis*, *Tetanolita floridana*, *Anticarsia gemmatalis*, *Caenurgis chloropha*, *Leucania adjuta* and *Anicla infecta* (LAF)

A number of species are becoming very scarce or are apparently gone entirely from historic localities. *Hesperia ottoe* was seen in Crawford Co. on 26 June but not at five other historic sites surveyed. *Problema byssus* has declined severely. It was not reported in historic sites in 2012 after reports of single individuals at two sites in 2011 (SAS), but was found at a new site in Grant County (KEJ). *Calephelis muticum* could not be found despite the lengthiest try ever at Chaffee Creek, Marquette-Waushara Counties on 11 July. *Plebejus saepiolus* was not seen for the second year in a row in Bayfield County near Cornucopia. *Lycaeides idas nabokovi* tied with last year's lowest numbers of the 13 years covered in Marinette County, with one fresh male on 16 June and three males on 29 June. None were found on the same dates in Oconto County (SAS).



Other species continue to hold on. *Callophrys irus* emerged on a record early date of 8 April in Jackson County, and had a record long flight period of 55 days extending to 1 June. Good populations continue to occur in areas of County Forest. None could be found in his-

toric sites in Wood County and eastern Monroe County. This species becomes either more detectable or more abundant in warm years, with the four best years surveyed 1992-present having the hottest springs. *Lycaeides melissa samuelis* tied the earliest date of 4 May. The peak spring date was 16 May in Jackson County. The last apparent spring individuals

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and first summer (fresh males) were both on 10 June in Jackson County, with the summer flight peaking on 4 July. It was also seen in average numbers in Wood and Burnett Counties. One was seen in a Russell Hybrid Lupine patch 11 July in Marquette County but wild lupines were nearby. It was also found in Green Lake and Portage Counties. *Speyeria idalia* declined from 2011's good numbers at all but a few sites, with Hogback Prairie, Crawford County, and the Buena Vista area in Portage County being the only sites with above-average numbers. It was also found at traditional sites in Iowa, Columbia, and Dane Counties. Its unusual appearance at a number of new or former sites suggests emigration to these localities. Ann Thering found regals at Spring Green Prairie, Sauk County on 8 June, the first report since Bob Borth's record of 4 June 1990. Several were seen on 26 June at Rush Creek, Crawford County, several more on 26 June and 2 July at Spring Green, and one on 10 July in Brockway Barrens SNA, Jackson County. *Callophrys henrici* had its fifth good year, emerging on a record early date of 1 April in Jackson County, and was very high in Burnett County.

The following list includes only the highlights of over 700 contributed records. New county records are indicated with CAPITAL letters. Record early dates appear in **bold** type.



SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
Hesperiidae					
3870 <i>Epargyreus clarus</i>	Waukesha	Kettle Moraine State Forest, Oconomowoc	2-May-2012	15-Sep-2012	JAE
3945 <i>Erynnis icelus</i>	Jackson	Jackson County Forest	1-Apr-2012		SAS
3946 <i>Erynnis brizo</i>	Jackson	Jackson County Forest	6-Apr-2012		SAS
3947 <i>Erynnis juvenalis</i>	Jackson	Jackson County Forest	1-Apr-2012		SAS
3947 <i>Erynnis juvenalis</i>	Waukesha	Kettle Moraine State Forest	18-Apr-2012	22-May-2012	JAE
3954 <i>Erynnis martialis</i>	Jackson	Brockway Road	11-May-2012		SAS
first record from Jackson County since 2002					
3961 <i>Erynnis persius</i>	Clark	Camp Globe Rd.	14-May-2012		LAF
3961 <i>Erynnis persius</i>	Jackson	Jackson County Forest	14-Apr-2012		SAS
3966 <i>Pyrgus communis</i>	Waukesha	Oconomowoc	26-Sep-2012	11-Oct-2012	JAE
3966 <i>Pyrgus communis</i>	Bayfield	FR 619	15-Jul-2012		SAS
3966 <i>Pyrgus communis</i>	Sauk	Mirror Lake State Park	29-Aug-2012		SAS
3977 <i>Pholisora catullus</i>	Waukesha	Oconomowoc	5-Jun-2012		JAE
4004 <i>Ancyloxypha numitor</i>	Waukesha	Oconomowoc	11-Jun-2012	3-Jul-2012	JAE
4006 <i>Oarisma powesheik</i>	Waukesha	Kettle Moraine State Forest	22-Jun-2012		JAE
4012 <i>Thymelicus lineola</i>	Waukesha	Oconomowoc	29-May-2012	5-Jun-2012	JAE
4013 <i>Hylephila phyleus</i>	Waukesha	Oconomowoc	10-Jul-2012	26-Sep-2012	JAE
4013 <i>Hylephila phyleus</i>	Jackson	Jackson County Forest & Bauer-Brockway Barrens	16-May-2012	17-Aug-2012	SAS
4013 <i>Hylephila phyleus</i>	Ashland	Wilderness Rd. west of Co. GG	15-Jul-2012		SAS
4013 <i>Hylephila phyleus</i>	Wood	Hwy. X	15-Jul-2012		SAS
4022 <i>Hesperia ottoe</i>	Crawford	Rush Creek Prairie	26-Jun-2012		SAS
not found at five other historic sites					
4022 <i>Hesperia ottoe</i>	Crawford	Hanson Prairie	9-Jul-2012		KEJ
4023 <i>Hesperia leonardus</i>	Bayfield	Moquah Barrens	27-Jul-2012	10-Aug-2012	SAS
4023 <i>Hesperia leonardus</i>	Portage	Buena Vista Wildlife Area	5-Aug-2012	25-Aug-2012	SAS
4027 <i>Hesperia metea</i>	BAYFIELD	Moquah Barrens	27-May-2012		SAS
4027 <i>Hesperia metea</i>	Jackson	Bauer-Brockway Barrens	14-Apr-2012	18-May-2012	SAS
4033 <i>Hesperia sassacus</i>	Jackson	six localities in county	16-May-2012		SAS
4049 <i>Atalopedes campestris</i>	Waukesha	Okauchee	6-Aug-2012	17-Oct-2012	JAE
4049 <i>Atalopedes campestris</i>	MARATHON	Norrie	1-Sep-2012		LAF
4049 <i>Atalopedes campestris</i>	DOUGLAS	Amnicon Lake	18-Aug-2012		SAS

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SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
4049 <i>Atalopedes campestris</i>	Portage	Buena Vista Wildlife Area	25-Aug-2012		SAS
4049 <i>Atalopedes campestris</i>	Sauk	Mirror Lake State Park	22-Aug-2012	29-Aug-2012	SAS
4052 <i>Problema byssus</i>	Grant	Eagle Valley Preserve	30-Jun-2012		KEJ
4059 <i>Poanes hobomok</i>	Waukesha	Kettle Moraine State Forest	11-May-2012	22-May-2012	JAE
4064 <i>Poanes viator</i>	Jackson	Black River State Forest	24-Jun-2012	4-Jul-2012	SAS
4064 <i>Poanes viator</i>	Burnett	Crex Meadows Wildlife Area	13-Jul-2012		SAS
4075 <i>Euphyes conspicua</i>	Green Lake	Puchyan Prairie	25-Jun-2012		SAS
4080 <i>Atrytonopsis hianna</i>	Clark	Camp Globe Rd.	14-May-2012		LAF
4080 <i>Atrytonopsis hianna</i>	Sauk	Mirror Lake State Park	10-May-2012		SAS
4096 <i>Amblyscirtes hegon</i>	Jackson	Jackson County Forest	18-May-2012		SAS
Papilionidae					
4157 <i>Battus philenor</i>	Waukesha	Okauchee and Oconomowoc	5-Jun-2012	9-Jun-2012	JAE
4157 <i>Battus philenor</i>	TAYLOR	Medford (Rickert yard)	10-Jun-2012		JFR
4157 <i>Battus philenor</i>	Crawford	Hogback Prairie	26-Jun-2012		SAS
4157 <i>Battus philenor</i>	Sauk	Devil's Lake State Park	27-Jun-2012		SAS
4170 <i>Papilio cresphontes</i>	Waukesha	Kettle Moraine State Forest, Okauchee	2-May-2012	31-Aug-2012	JAE
4170 <i>Papilio cresphontes</i>	Jackson	Bauer-Brockway Barrens	11-May-2012	18-May-2012	SAS
4176 <i>Papilio glaucus</i>	Dane	Brooklyn Unit - Ice Age trail	2-Apr-2012		JDM
4176 <i>Papilio glaucus</i>	Grant	Eagle Valley Preserve	29-Mar-2012		KEJ
4184 <i>Eurytides marcellus</i>	Columbia	Columbus	18-Jun-2012		PJP
photo submitted by Melissa Jacobs					
Pieridae					
4193 <i>Pontia protodice</i>	Monroe		3-Jul-2012		SAS
4195 <i>Pieris oleracea</i>	Walworth	Lulu Lake	23-Apr-2012		JAE
4196 <i>Pieris virginiensis</i>	Langlade	NE of Ventor Lake & Bogus Swamp area	1-May-2012		KEJ
4197 <i>Pieris rapae</i>	Dane	Middleton (Ferge backyard)	15-Mar-2012		LAF
4202 <i>Euchloe olympia</i>	Jackson	Bauer-Brockway Barrens	1-Apr-2012	11-May-2012	SAS
4209 <i>Colias philodice</i>	Waukesha	Okauchee	19-Apr-2012	21-Oct-2012	JAE
4220 <i>Colias interior</i>	Ashland	Clam Lake Bog	4-Jun-2012		KEJ
4224 <i>Colias cesonia</i>	Sauk	Devil's Lake State Park	27-Jun-2012		SAS
4237 <i>Eurema lisa</i>	Waukesha	Kettle Moraine State Forest and Monterey	23-May-2012	3-Jul-2012	JAE
4237 <i>Eurema lisa</i>	Wood	Hwy. X	28-May-2012	15-Jul-2012	SAS
4237 <i>Eurema lisa</i>	Bayfield	Comucopia	22-Jun-2012	15-Jul-2012	SAS
4237 <i>Eurema lisa</i>	Burnett		13-Jul-2012		SAS
4242 <i>Abaeis nicippe</i>	Iowa	Avoca	16-Sep-2012		LAF
4248 <i>Nathalis iole</i>	Waukesha	Monterey and Oconomowoc	2-Jul-2012	26-Sep-2012	JAE
4248 <i>Nathalis iole</i>	Burnett	Crex Meadows Wildlife Area	13-Jul-2012		SAS
4248 <i>Nathalis iole</i>	Douglas	Amnicon Lake	28-Jul-2012		SAS
4248 <i>Nathalis iole</i>	Portage	Buena Vista Wildlife Area	5-Aug-2012		SAS
4248 <i>Nathalis iole</i>	Wood		17-Aug-2012		SAS
Lycaenidae					
4253 <i>Lycaena dione</i>	Portage	Buena Vista Wildlife Area	15-Jun-2012	20-Jul-2012	SAS
4256 <i>Lycaena hyllus</i>	Portage	Buena Vista Wildlife Area	2-Jun-2012	1-Jul-2012	SAS
4256 <i>Lycaena hyllus</i>	Green Lake		13-Jun-2012	25-Jun-2012	SAS
4256 <i>Lycaena hyllus</i>	Ashland		30-Jun-2012		SAS
4260 <i>Lycaena epixanthe</i>	Jackson		10-Jun-2012	4-Jul-2012	SAS
4261 <i>Lycaena dorcas</i>	Lincoln	Bog W of Bradley on Hwy. 8	15-Jun-2012		SAS
4262 <i>Lycaena helliodes</i>	Marquette	Chaffee Creek	11-Jul-2012		SAS
4262 <i>Lycaena helliodes</i>	Burnett	Crex Meadows Wildlife Area	13-Jul-2012		SAS
4322 <i>Callophrys augustinus</i>	SHAWANO	Navarino Bog	29-Apr-2012		KEJ
4324 <i>Callophrys polios</i>	Jackson	Jackson County Forest	1-Apr-2012		SAS

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SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
4325 Callophrys irus	Jackson	Jackson County Forest	8-Apr-2012	1-Jun-2012	SAS
early date and record long flight period of 55 days					
4326 Callophrys henrici	Jackson	Jackson County Forest	1-Apr-2012	11-May-2012	SAS
4326 Callophrys henrici	LINCOLN	Wilson School Forest	14-Apr-2012		KEJ
4336 Strymon melinus	Wood	Hwy. X	11-May-2012	17-Aug-2012	SAS
4336 Strymon melinus	Burnett	Crex Meadows Wildlife Area	13-Jul-2012		SAS
4336 Strymon melinus	Douglas	Amnicon Lake	28-Jul-2012		SAS
4372 Glaucopsyche lygdamus couperi	Waukesha	Kettle Moraine State Forest	23-Apr-2012	2-May-2012	JAE
4374 Plebejus idas nabokovi	Marinette	Shrine Rd.	16-Jun-2012	29-Jun-2012	SAS
very low numbers, not found in Oconto County locality on same dates					
4375.1 Plebejus melissa samuelis	Monroe		4-May-2012		SAS
Nymphalidae					
4420 Polygonia interrogationis	Waukesha	Kettle Moraine State Forest, Oconomowoc	16-May-2012	9-Jul-2012	JAE
4420 Polygonia interrogationis	Florence	Tie Mill Road (FR 2402)	3-Jun-2012		LAF
4420 Polygonia interrogationis	Jackson	South Brockway Rd. & ATV Trail	14-May-2012		LAF
4420 Polygonia interrogationis	Vilas	Barrens 3 mi. N of Conover	3-Jun-2012		LAF
4422 Polygonia satyrus	Douglas	N of Moose Junction	12-May-2012		SAS
4422 Polygonia satyrus	LINCOLN	Spirit Falls	14-Apr-2012		KEJ
4423 Polygonia faunus	Price	S of Davis Lake	2-Apr-2012		KEJ
4432 Nymphali antiopa	Waukesha	Kettle Moraine State Forest, Oconomowoc	18-Apr-2012	6-Sep-2012	JAE
4435 Vanessa cardui	Waukesha	Oconomowoc	1-Jul-2012	7-Sep-2012	JAE
4435 Vanessa cardui	Clark	Camp Globe Rd.	14-May-2012		LAF
4435 Vanessa cardui	Monroe		4-May-2012		SAS
4435 Vanessa cardui	Portage	Buena Vista Wildlife Area	20-Jul-2012		SAS
4437 Vanessa atalanta	Waukesha	Okauchee	17-Apr-2012	11-Oct-2012	JAE
4437 Vanessa atalanta	Rock	Avon Bottoms Wildlife Area	2-Apr-2012		LAF
4440 Junonia coenia	Waukesha	Kettle Moraine State Forest, Oconomowoc	22-May-2012	16-Sep-2012	JAE
4440 Junonia coenia	Jackson	Bauer-Brockway Barrens	16-May-2012	1-Jun-2012	SAS
4440 Junonia coenia	Burnett	Burnett County Forest	25-May-2013		SAS
4450 Speyeria cybele	Waukesha	Kettle Moraine State Forest, Okauchee	18-Jun-2012	15-Sep-2012	JAE
4452 Speyeria idalia	Crawford	Rush Creek Prairie	26-Jun-2012		SAS
first record from this site					
4452 Speyeria idalia	Iowa	Mueller Prairie	21-Jun-2012	3-Aug-2012	KEJ
apparently colonized prairie after recent brush removal; good population					
4452 Speyeria idalia	Portage	Buena Vista Wildlife Area	15-Jun-2012	25-Aug-2012	SAS
4452 Speyeria idalia	Sauk	Spring Green Prairie	8-Jun-2012	2-Jul-2012	SAS
early record from Ann Thering, not found at site since 1990					
4463 Boloria eunomia dawsoni	Oconto	Glocke Lake	19-May-2012	3-Jun-2012	SAS
4463 Boloria eunomia dawsoni	Ashland	Clam Lake Bog	4-Jun-2012		KEJ
4466 Boloria frigga	Douglas	Amnicon Lake	12-May-2012		SAS
4471 Boloria freija	Douglas	Amnicon Lake	20-Apr-2012		SAS
4471 Boloria freija	Ashland	Black Creek Bog	23-Apr-2012		KEJ
4471 Boloria freija	Lincoln	Tomahawk to Spirit Falls area	12-Apr-2012	14-Apr-2012	KEJ
4474 Boloria characlea grandis	Douglas	Amnicon Lake	14-Jul-2012	10-Aug-2012	SAS
4489 Chlosyne gorgone	Jackson	Bauer-Brockway Barrens	1-May-2012	1-Jun-2012	SAS
4491 Chlosyne harrisii	Jackson		18-May-2012		SAS
4522.2 Limenitis arthemis astyanax	Waukesha	Kettle Moraine State Forest, Okauchee	16-May-2012	7-Aug-2012	JAE
4523 Limenitis archippus	Waukesha	Kettle Moraine State Forest	16-May-2012		JAE
4568.1 Lethe anthedon	Waukesha	Kettle Moraine State Forest, Oconomowoc	23-Jun-2012	10-Jul-2012	JAE
4568.3 Lethe eurydice	Waukesha	Oconomowoc	1-Jul-2012	10-Jul-2012	JAE
4568.3 Lethe eurydice	Green Lake	Puchyan Prairie	13-Jun-2012		SAS

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SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
4578 <i>Megisto cymela</i>	Waukesha	Kettle Moraine State Forest	16-May-2012	22-May-2012	JAE
4583 <i>Coenonympha tullia inornata</i>	Jackson		11-May-2012		SAS
4596 <i>Erebia discoidalis</i>	Price		23-Apr-2012		SAS
4596 <i>Erebia discoidalis</i>	Ashland	Black Creek Bog	23-Apr-2012		KEJ
4596 <i>Erebia discoidalis</i>	Vilas	Powell Marsh	4-May-2012		KEJ
4606 <i>Oeneis chryxus</i>	Douglas		24-Apr-2012	12-May-2012	SAS
4606 <i>Oeneis chryxus</i>	Marinette		29-Apr-2012		SAS
4606.1 <i>Oeneis chryxus</i>	Vilas	Haymeadow Creek Barrens	3-May-2012		KEJ
4611 <i>Oeneis jutta ascerta</i>	Oconto	Glocke Lake	19-May-2012	3-Jun-2012	SAS
4611 <i>Oeneis jutta ascerta</i>	Douglas	Amnicon Lake	12-May-2012	10-Jun-2012	SAS
4614 <i>Danaus plexippus</i>	Waukesha	Oconomowoc	11-May-2012	4-Oct-2012	JAE
4614 <i>Danaus plexippus</i>	Dane	Oregon (Marche residence)	3-May-2012		JDM
Acrolophidae					
367 <i>Acrolophus morus</i>	GRANT	Eagle Valley Preserve	25-Sep-2012		KEJ
abundant; flying erratically during day					
Gracillariidae					
764 <i>Phyllonorycter lucetiella</i>	LAFAYETTE	Hardscrabble Prairie			KEJ
ex. <i>Tilia americana</i> leaf blotch mine					
823 <i>Cameraria hamadryadella</i>	LAFAYETTE	Hardscrabble Prairie			KEJ
ex. <i>Quercus macrocarpon</i> blotch mine					
823 <i>Cameraria hamadryadella</i>	RICHLAND	Lone Rock LWRWSA			KEJ
ex. <i>Quercus bicolor</i> blotch mine					
842 <i>Chrysaster ostensackenella</i>	LAFAYETTE	Hardscrabble Prairie			KEJ
ex. <i>Robinia pseudoacacia</i> blotch mine					
Elachistidae					
868.1 <i>Agonopterix paulae</i>	LAFAYETTE	Hardscrabble Prairie			KEJ
ex. <i>Zanthoxylum americanum</i> leaf shelter					
1032 <i>Gonioterma mistrella</i>	IOWA	Mueller Prairie	11-Sep-2012		KEJ
probable STATE RECORD					
Glyphipterigidae					
2341 <i>Glyphipterix haworthana</i>	Lincoln	Somo Peatlands	12-Apr-2012		KEJ
2341 <i>Glyphipterix haworthana</i>	PORTAGE	Dewey Marsh			KEJ
ex. <i>Eriophorum vaginatum</i> seed heads					
Yponomeutidae					
2401 <i>Atteva aurea</i>	Waukesha	Okauchee	13-Jul-2012		JAE
Schreckensteiniidae					
2509 <i>Schreckensteinia festaliella</i>	ASHLAND	Black Creek Uplands	24-Apr-2012		KEJ
flying during early AM					
Crambidae					
5482 <i>Haimbachia squamulella</i>	GRANT	Eagle Valley Preserve	29-Jun-2012	29-Jul-2012	KEJ
probable STATE RECORD					
Geometridae					
6256 <i>Archiearis infans</i>	ASHLAND	Black Creek Uplands	2-Apr-2012	3-Apr-2012	KEJ
6256 <i>Archiearis infans</i>	LINCOLN	3 sites SW of Tomahawk	7-Apr-2012	14-Apr-2012	KEJ
6257 <i>Leucobrephos brephoides</i>	PRICE	bogs by FR 137	25-Mar-2012		SAS
6257 <i>Leucobrephos brephoides</i>	BAYFIELD	Moquah Barrens	24-Mar-2012		SAS
6271.1 <i>Mellilla xanthometata</i>	Grant	Eagle Valley Preserve	29-Mar-2012	29-Jul-2012	KEJ
6321 <i>Epelis truncataria</i>	SHAWANO	Navarino Bog	29-Apr-2012		KEJ
6443 <i>Glenoides texanaria</i>	ROCK	Lawrence Prairie	16-Sep-2012		KEJ
STATE RECORD					

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SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
6639 Eufidonia discospilata	SHAWANO	Navarino Bog	29-Apr-2012		KEJ
6665 Erannis tiliaria	Rock	Magnolia Bluff County Park	24-Oct-2012		LAF
6799 Spodolepis substriataria	SAWYER	Swanson Creek	2-Apr-2012		KEJ
7084 Hethemia pistasciaria	SAWYER	Goodman Lake Bog	4-Jun-2012		KEJ
7084 Hethemia pistasciaria	WASHBURN	Chicog Lake Peatland	4-Jun-2012		KEJ
7285 Triphosa haesitata	VILAS	Haymeadow Creek Barrens	3-May-2012		KEJ
7333 Stamnodes gibbicostata	GRANT	Jamestown Twp. (Sandy Hook)	16-Sep-2012		LAF
7333 Stamnodes gibbicostata	GREEN	Abraham's Woods Prairie	15-Sep-2012		KEJ
7416 Costaconvexa centrostrigaria	Dane	Swamp Lover's Preserve	1-Dec-2012	3-Dec-2012	KEJ
7417 Disclisiprocta stellata	GRANT	Eagle Valley Preserve	24-Sep-2012		KEJ
7417 Disclisiprocta stellata	GREEN	Abraham's Woods Prairie	15-Sep-2012		KEJ
7417 Disclisiprocta stellata	ROCK	Lawrence Prairie	16-Sep-2012		KEJ
7635 Acasis viridata	DUNN	Hoffman Hills	13-Apr-2012		KEJ
Saturniidae					
7704 Eacles imperialis	Waukesha	Okauchee	16-Jul-2012		JAE
Sphingidae					
7802 Sphinx chersis	TAYLOR	5 mi. NE of Medford (Washington Flowage)	18-Jun-2012		JFR
7871 Deidamia inscriptum	Eau Claire	Eau Claire	27-Mar-2012		Ian Miller
7894 Hyles lineata	Dane	Middleton (Ferge backyard)	3-May-2012	25-Aug-2012	LAF
Erebidae					
8333 Idia denticulalis	TREMPEALEAU	Perrot State Park	27-Jul-2012		KEJ
8348 Zanclognatha pedipilalis	Rock	Avon Bottoms Wildlife Area (Hopkins Rd.)	30-Jul-2012		LAF
8366 Tetanolita mynesalis	ROCK	Avon Bottoms Wildlife Area (Smith Rd.)	23-Oct-2012		LAF
8368 Tetanolita floridana	GRANT	Jamestown Twp. (Sandy Hook)	16-Sep-2012		LAF
8368 Tetanolita floridana	Rock	Avon Bottoms Wildlife Area (Hopkins Rd.)	30-Jul-2012		LAF
8465 Hypena scabra	Dane	Swamp Lover's Preserve	1-Dec-2012	3-Dec-2012	KEJ
8514 Scolecocampa liburna	Grant	Eagle Valley Preserve	29-Jun-2012		KEJ
8534 Plusiodonta compressipalpis	Rock	Magnolia Bluff County Park	23-Oct-2012		LAF
8574 Anticarsia gemmatalis	ROCK	Magnolia Bluff County Park	16-Oct-2012		LAF
8574 Anticarsia gemmatalis	GRANT	Eagle Valley Preserve	23-Oct-2012		KEJ
8592 Cissusa spadix	MARQUETTE	Wood Lake	14-Apr-2012		KEJ
8607 Melipotis jucunda	ROCK	Avon Bottoms Wildlife Area (Hopkins Rd.)	23-Oct-2012		LAF
STATE RECORD					
8699 Zale obliqua	VILAS	Haymeadow Creek Barrens	1-May-2012	3-May-2012	KEJ
8702 Zale submediana	VILAS	Haymeadow Creek Barrens	1-May-2012	3-May-2012	KEJ
8703 Zale duplicata	Ashland	Black Creek Bog	2-Apr-2012		KEJ
8707 Zale metatoides	VILAS	Haymeadow Creek Barrens	3-May-2012		KEJ
8733 Caenurgia chloropha	ROCK	Avon Bottoms Wildlife Area (Hopkins Rd.)	23-Oct-2012		LAF
8747 Celiptera frustulum	Trempealeau	Perrot State Park	27-Jul-2012		KEJ, RJB
8769 Spiloloma lunilinea	Grant	Eagle Valley Preserve	29-Jun-2012		KEJ
8841 Catocala abbreviatella	Crawford	Hanson Prairie	9-Jul-2012		KEJ
8841 Catocala abbreviatella	Dane	Stagecoach Prairie	22-Jun-2012		KEJ
8841 Catocala abbreviatella	Grant	Eagle Valley Preserve	29-Jun-2012		KEJ
8842 Catocala nuptialis	Trempealeau	Perrot State Park	27-Jul-2012		KEJ, RJB
8843 Catocala whitneyi	Crawford	Hanson Prairie	9-Jul-2012		KEJ
8844 Catocala amestris	Crawford	Hanson Prairie	9-Jul-2012		KEJ
8844 Catocala amestris	Dane	Stagecoach Prairie	22-Jun-2012		KEJ
Noctuidae					
8887 Tricoplusia ni	Dane	Middleton (Ferge backyard)	28-Aug-2012		LAF
8895 Rachiplusia ou	Dane	Middleton (Ferge backyard)	3-May-2012	11-May-2012	LAF
8907 Megalographa biloba	Dane	Middleton (Ferge backyard)	3-May-2012		LAF

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SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
8907 Megalographa biloba	DUNN	Hoffman Hills	13-Apr-2012		KEJ
8907 Megalographa biloba	LINCOLN	Armstrong Creek Bog	7-Apr-2012		KEJ
8907 Megalographa biloba	SHAWANO	Navarino Bog	29-Apr-2012		KEJ
8946 Syngnatha microgamma	SAWYER	Mukwonago Lake Peatland	4-Jun-2012		KEJ
9127 Spragueia leo	CRAWFORD	Hogback Prairie	14-Aug-2012		KEJ
9280 Simyra insularis	Grant	Sandy Hook	24-Mar-2012		KEJ
9309 Psychomorpha epimenis	Rock	Magnolia Bluff County Park	2-Apr-2012		LAF
9402 Oligia chlorostigma	Dane	Stagecoach Prairie	22-Jun-2012		KEJ
9406 Oligia fractilinea	ROCK	Magnolia Bluff County Park	30-Jul-2012		LAF
9464 Papaipema cerina	Green	Abraham's Woods Prairie	15-Sep-2012		KEJ, SCB
9466 Papaipema cataphracta	GRANT	Jamestown Twp. (Sandy Hook)	16-Sep-2012		LAF
9479 Papaipema lysimachiae	Dane	Swamp Lover's Preserve	1-Sep-2012		GWG
9484 Papaipema rutila	Dane	Stagecoach Prairie	10-Sep-2012		KEJ
9484 Papaipema rutila	Grant	Eagle Valley Preserve	25-Sep-2012		KEJ
9484 Papaipema rutila	Green	Abraham's Woods Prairie	15-Sep-2012		KEJ, SCB
9492 Papaipema marginidens	CRAWFORD	Hanson Prairie	28-Sep-2012		KEJ, SCB
9492 Papaipema marginidens	Dane	Swamp Lover's Preserve	19-Sep-2012		KEJ
9492 Papaipema marginidens	GREEN	Abraham's Woods Prairie	15-Sep-2012		KEJ, SCB
9506 Papaipema sciata	Dane	Swamp Lover's Preserve	22-Oct-2012		GWG
9516 Hydraecia stramentosa	IOWA	Mueller Prairie	11-Sep-2012		KEJ
9640 Amphipyra glabella	ROCK	Magnolia Bluff County Park	30-Jul-2012		LAF
9644 Micrathetis triplex	ROCK	Avon Bottoms Wildlife Area (Smith Rd.)	23-Oct-2012		LAF
STATE RECORD, determined by J. D. Lafontaine					
9665 Spodoptera exigua	CRAWFORD	Hanson Prairie	11-Aug-2012	28-Sep-2012	KEJ
9665 Spodoptera exigua	Dane	Stagecoach Prairie, Swamp Lover's Preserve	14-Jul-2012	22-Oct-2012	KEJ, GWG
9665 Spodoptera exigua	GREEN	Abraham's Woods Prairie, Avon Bottoms WA	15-Sep-2012	24-Oct-2012	KEJ, LAF
9665 Spodoptera exigua	IOWA	Mueller Prairie	3-Aug-2012	11-Sep-2012	KEJ
9665 Spodoptera exigua	LAFAYETTE	Hardscrabble Prairie SNA	16-Sep-2102		LAF
9665 Spodoptera exigua	MILWAUKEE	Root River Parkway	12-Sep-2012		KEJ
9665 Spodoptera exigua	ROCK	Lawrence Prairie, Magnolia Bluff County Park	16-Sep-2012	24-Oct-2012	KEJ, LAF
9679 Elaphria chalcedonia	CRAWFORD	Hanson Prairie	11-Aug-2012	28-Sep-2012	KEJ
9679 Elaphria chalcedonia	Dane	Stagecoach Prairie, Swamp Lover's Preserve	22-Jun-2012	29-Sep-2012	KEJ, GWG
9679 Elaphria chalcedonia	GRANT	Eagle Valley Preserve	29-Jul-2012	24-Oct-2012	KEJ
9679 Elaphria chalcedonia	GREEN	Abraham's Woods Prairie	15-Sep-2012		KEJ
9679 Elaphria chalcedonia	ROCK	Lawrence Prairie	16-Sep-2012		KEJ
9725 Azenia obtusa	Grant	Eagle Valley Preserve	28-Jul-2012		KEJ
9875 Xylena thoracica	PRICE	Riley Lake Bog	1-Apr-2012		KEJ
ex. Salix discolor catkins at night					
9875 Xylena thoracica	VILAS	Haymeadow Creek Barrens	1-May-2012		KEJ
9884 Litholomia napaea	Ashland	Black Creek Uplands	2-Apr-2012		KEJ
ex. Salix discolor catkins at night					
9884 Litholomia napaea	PRICE	Riley Lake Bog	31-Mar-2012	1-Apr-2012	KEJ
ex. Salix discolor catkins at night					
9885 Lithophane semiusta	ROCK	Magnolia Bluff County Park	16-Oct-2012		LAF
9885 Lithophane semiusta	BROWN	East River Trail	.7-Mar-2012		KEJ
9886 Lithophane patefacta	SAWYER	Swanson Creek	2-Apr-2012		KEJ
9887.1 Lithophane franclemonti	ROCK	Magnolia Bluff County Park	12-Mar-2012	16-Oct-2012	LAF
9888.1 Lithophane franclemonti	Crawford	Hanson Prairie	28-Sep-2012		KEJ, SCB
9892 Lithophane disposita	PRICE	Riley Lake Bog	1-Apr-2012		KEJ
9902 Lithophane baileyi	Ashland	Black Creek Bog	2-Apr-2012		KEJ
9902 Lithophane baileyi	SAWYER	Swanson Creek	2-Apr-2012		KEJ

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SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
9904.1 <i>Lithophane scottae</i>	LAFAYETTE	Hardscrabble Prairie SNA	13-Mar-2012		LAF
9904.1 <i>Lithophane scottae</i>	Grant	Eagle Valley Preserve	24-Oct-2012		KEJ
9909 <i>Lithophane tepida</i>	Ashland	Black Creek Uplands	2-Apr-2012		KEJ
9909 <i>Lithophane tepida</i>	Price	Riley Lake Bog	31-Mar-2012	1-Apr-2012	KEJ
9910 <i>Lithophane antennata</i>	Dane	Swamp Lover's Preserve	15-Feb-2012	3-Dec-2012	KEJ
9917 <i>Lithophane fagina</i>	SAWYER	Swanson Creek	2-Apr-2012		KEJ
9922 <i>Lithophane pexata</i>	Price	Riley Lake Bog	31-Mar-2012	1-Apr-2012	KEJ
ex. <i>Salix discolor</i> & <i>S. petiolaris</i> catkins at night					
9930 <i>Pyreferra citrombra</i>	Milwaukee	Schlitz Audubon Nature Center	31-Jan-2012		KEJ
9933 <i>Eupsilia vinulenta</i>	Dane	Swamp Lover's Preserve	10-Jan-2012		KEJ
9933 <i>Eupsilia vinulenta</i>	Milwaukee	Schlitz Audubon Nature Center	31-Jan-2012		KEJ
9933.1 <i>Eupsilia sidus</i>	Dane	Swamp Lover's Preserve	1-Dec-2012	3-Dec-2012	KEJ
9933.1 <i>Eupsilia sidus</i>	Milwaukee	Schlitz Audubon Nature Center	31-Jan-2012		KEJ
9936 <i>Eupsilia morrisoni</i>	Dane	Swamp Lover's Preserve	10-Jan-2012	3-Dec-2012	KEJ
9936 <i>Eupsilia morrisoni</i>	Milwaukee	Schlitz Audubon Nature Center	31-Jan-2012		KEJ
9939 <i>Eupsilia devia</i>	ROCK	Magnolia Bluff County Park	12-Mar-2012		LAF
9939 <i>Eupsilia devia</i>	PRICE	Riley Lake Bog	31-Mar-2012	1-Apr-2012	KEJ
9939 <i>Eupsilia devia</i>	SAWYER	Swanson Creek	2-Apr-2012		KEJ
9941 <i>Sericaglaea signata</i>	ROCK	Magnolia Bluff County Park	12-Mar-2012		LAF
9946 <i>Epiglaea decliva</i>	ROCK	Magnolia Bluff County Park	16-Oct-2012	21-Nov-2012	LAF
9992 <i>Pachypolia atricornis</i>	GRANT	Eagle Valley Preserve	24-Oct-2012		KEJ
10011 <i>Brachionycha borealis</i>	GRANT	Eagle Valley Preserve	29-Mar-2012		KEJ
10020 <i>Psaphida thaxterianus</i>	Dane	Swamp Lover's Preserve	19-Mar-2012	21-Mar-2012	GWG
10302 <i>Trichordestra rugosa</i>	WASHBURN	Chicog Lake Peatland	4-Jun-2012		KEJ
10332 <i>Coranarta luteola</i>	Bayfield	Little Bass Lake Peatland	23-Apr-2012		KEJ
10434 <i>Dargida rubripennis</i>	Dane	Swamp Lover's Preserve	1-Sep-2012		GWG
10434 <i>Dargida rubripennis</i>	Grant	Eagle Valley Preserve	29-Jul-2012		KEJ
10438 <i>Pseudaletia unipuncta</i>	Rock	Magnolia Bluff County Park	12-Mar-2012	21-Nov-2012	LAF
10456 <i>Leucania adjuta</i>	ROCK	Avon Bottoms Wildlife Area (Hopkins Rd.)	24-Oct-2012		LAF
10487 <i>Orthosia rubescens</i>	DUNN	Hoffman Hills	13-Apr-2012		KEJ
ex. <i>Prunus americana</i> flowers at night					
10490 <i>Orthosia revicta</i>	Ashland	Black Creek Uplands	2-Apr-2012		KEJ
ex. <i>Salix discolor</i> & <i>S. petiolaris</i> catkins at night					
10628 <i>Tricholita notata</i>	IOWA	Mueller Prairie	11-Sep-2012		KEJ
10628 <i>Tricholita notata</i>	MILWAUKEE	Root River Parkway	12-Sep-2012		KEJ
10664 <i>Feltia subterranea</i>	GRANT	Eagle Valley Preserve	25-Sep-2012	24-Oct-2012	KEJ
10869 <i>Dichagyris grotei</i>	Crawford	Hogback Prairie	14-Aug-2012		KEJ
10870 <i>Dichagyris acclivis</i>	ROCK	Avon Bottoms Wildlife Area (Hopkins Rd.)	30-Jul-2012		LAF
10870 <i>Dichagyris acclivis</i>	GRANT	Eagle Valley Preserve	28-Jul-2012		KEJ
10911 <i>Anicla infecta</i>	ROCK	Magnolia Bluff County Park, Lawrence Prairie	16-Sep-2012	24-Oct-2012	KEJ, LAF
10915 <i>Peridroma saucia</i>	Rock	Magnolia Bluff County Park	12-Mar-2012	21-Nov-2012	LAF
10996 <i>Cerastis salicarum</i>	Price	Riley Lake Bog	31-Mar-2012	1-Apr-2012	KEJ
ex. <i>Salix discolor</i> catkins at night					
11070 <i>Heliothis subflexa</i>	GRANT	Eagle Valley Preserve	29-Jul-2012		KEJ
11095 <i>Schinia indiana</i>	Jackson	Bauer-Brockway Barrens	11-May-2012	20-May-2012	SAS
11095 <i>Schinia indiana</i>	Burnett	Fish Lake Wildlife Area	25-May-2012		SAS
11117 <i>Schinia lynx</i>	GREEN	Avon Bottoms Wildlife Area	30-Jul-2012		LAF
11117 <i>Schinia lynx</i>	ROCK	Lawrence Prairie	7-Aug-2012		KEJ
11141 <i>Schinia thoreaui</i>	GREEN	Avon Bottoms Wildlife Area	30-Jul-2012		LAF
11148.1 <i>Schinia grandimedia</i>	Crawford	Hanson & Hogback Prairies	7-Aug-2012	14-Aug-2012	KEJ
11148.1 <i>Schinia grandimedia</i>	ROCK	Lawrence Prairie	7-Aug-2012		KEJ

Wisconsin Entomological Society



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SPECIES NAME	COUNTY	SITE NAME	Date 1	Date 2	NAME
11174 Schinia lucens	Iowa	Mueller Prairie	21-Jun-2012		KEJ
11174 Schinia lucens	ROCK	Lawrence Prairie	26-Jun-2012		KEJ

BOOKS & WEBSITES from page 6

No worries: **Cockroaches: Ecology, Behavior, and Natural History** by W. Bell et al. is just for you - the book is considered a classic on that order of insects.

I've also discovered at the last WES meeting that our member Nancy Collins has a wonderful website **Oecanthidae-Tree Crickets** - check it out at <http://www.oecanthinae.com/index2.html>. Also, our member Bob DuBois maintains another jewel: **Wisconsin Odonata Survey** at <http://wiatri.net/inventory/odonata/> - don't forget to visit! Entomological Society of America has links to the state societies at http://www.ent.soc.org/resources/links/state_orgs.

I've come across a small but interesting book: **Threatened & Endangered Species in Forests of Wisconsin**. It's a manual for anybody involved in forestry, teaching them to recognize and avoid state and federally threatened species. It's a product of cooperation between International Paper Company, DNR and The Nature Conservancy. Nifty feature there is endangered species' lists by counties. You can find it online at <http://woodlandinfo.org/publications/DNR/FR-174.pdf>