

Wisconsin Entomological Society Newsletter

Volume 26, Number 1

March 1999

Announcing the 1999 NABA-Xerces Fourth of July Butterfly Count

The 25th annual NABA-Xerces 4th of July Butterfly Count will be held this summer. These counts are fun-filled but they also track the butterfly populations of North America. Volunteers select a count area with a 15-mile diameter and conduct a one-day census of all butterflies sighted within that circle. These counts are usually held in the few weeks before or after the 4th of July.



The North American Butterfly Association (NABA) organizes the counts and publishes their annual reports. These reports provide important information about the geographical distributions and population sizes of the species counted. Comparisons of the results over the years monitor changes in butterfly populations and reveal effects of weather and habitat change on the different species. In some years the butterfly count shows dramatic changes in butterfly populations, while other years indicate little fluctuation in butterfly numbers. Either way, the butterfly counters are always curious about what next year's results will be.

No matter how much or how little butterfly watching you've done, the results of butterfly counting can be surprising and interesting. If a count already exists in your area,

please join them for a day of fascinating butterfly counting. If there is no count in your area, you may start your own if you know how to identify the butterflies. Otherwise, inspire a nature center or butterfly club to start one for you.

For more information on the count program, counts in your area, how to conduct a count, and NABA, please consult NABA's website at www.naba.org, or send a self-addressed, stamped business envelope to: NABA, 4 Delaware Rd, Morristown, NJ 07960 USA. ☺

1998 Wisconsin Lepidoptera Season Summary

by Les Ferge

The onset of the season was one of the earliest in memory, comparable to the early springs of 1977 and 1987. Emergence of *Boloria freija*, *Boloria frigga*, *Oeneis jutta*, and *Erebia discoidalis* was more than two weeks ahead of "normal" in northern bogs and a full month earlier than last season.

The Swengels reported record early dates for *Incisalia trus* (5 May, Wood Co.) And *Lycaetides mettssa samuelis* (13 May, Jackson Co.), and observed that northwestern Wisconsin seemed more advanced than southern Wisconsin. Ferge and

Please see **LEPIDOPTERA**, Page 4

The Monarch's Secret Hideaway...

Little did the Purepecha Indians of Central Mexico know that the American who appeared in their village in 1975 would solve an ancient mystery...where their beloved Monarch butterflies flew off to in spring. The man was Kenneth C. Brugger, an amateur naturalist from Kenosha, WI who was a textile consultant for Jockey International in Mexico City.

One day in 1973, Brugger saw an ad in a Mexican newspaper, placed by University of Toronto scientist, Fred Urquhart, who was looking for volunteers to help him track the annual migration of Monarchs.

Please see **MONARCH**, Page 8

1999 Dues Notice

Enclosed in this newsletter is your dues envelope for 1999. Your prompt attention will be most appreciated. Dues are to be sent directly to the treasurer, Tom Rocheleau, 3100 Buena Vista St., Madison, WI 53704. To determine your status, please check the address label on this newsletter. Appearing after your name will be the last year dues are paid for and your membership category (Individual, Family, Sustaining, or Patron). Also be sure to notify us of any address changes or corrections when you send in your dues or notify Les Ferge at the address below. ☺

The Wisconsin Entomological Society Newsletter is published three times a year, at irregular intervals. It 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:

Janice Stiefel, W6311 Mullet Lane, Plymouth, WI 53073. e-mail: jstiefel@excel.net

NOTE: Please report any address changes to Les Ferge, 7119 Hubbard Ave., Middleton, WI 53562. e-mail: lesferge@juno.com

1998 Photo Salon Winners



Photo: Karl Legler

Ringed Boghunter (*Willamsonia tintneri*)—Karl Legler, First Place

This is a new dragonfly species for Wisconsin. Discovered by Karl Legler in Jackson Co. on May 9, 1998. Previously, this species' world population was known only from about 30 sites in New England.

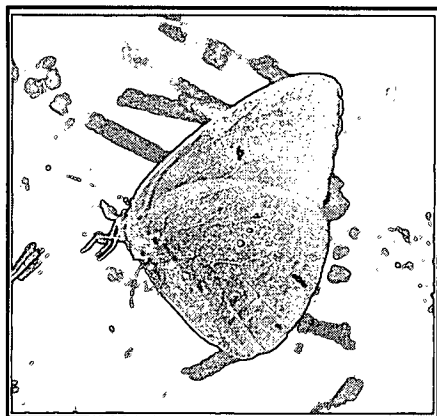


Photo: Janice Stiefel

Male Cloudless Sulphur Butterfly
(*Phoebis sennae*)

Janice Stiefel, Second Place
Photographed 9/5/98, Door Co. WI
Nikon N50, 55mm lens, Kodachrome 200

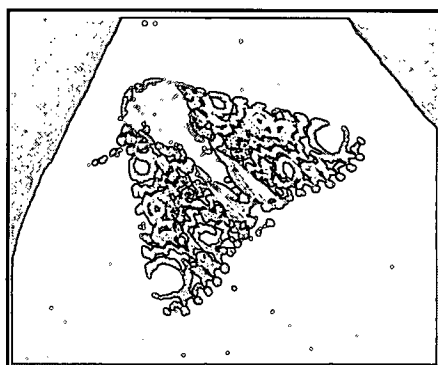


Photo: Janice Stiefel

Harris's Three Spot Moth
(*Harrisimemna trisignata*)
Janice Stiefel, Third Place

Photographed 6/14/97, Sheboygan Co. WI
Nikon N50, 55mm lens, Kodachrome 200

Color Guide to Common Dragonflies of Wisconsin

Revised Edition 1998
by Karl & Dorothy Legler
and Dave Westover

This paperback guide covers 76 species of Wisconsin dragonflies. The guide has 64 pages with 167 color photographs and illustrations. The text also contains 64 line drawings. Each species photo is accompanied by text and graphics, breeding habitat, Wisconsin range map, flight period, identification, abundance, actual length, and brief life-history notes. The guide is designed for nature enthusiasts with no entomological background. The guide is available for \$18.95 + \$1.00 postage. Make check payable to Karl Legler and send to 429 Franklin St., Sauk City, WI 53583. Phone: (608) 643-4926. ☎

Website and e-mail is to the left.

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"ET"...The Praying Mantis

by Roy Lukes

An alert person at the Sister Bay Yacht Club and Resort helped me to relive one of the most interesting experiences I have ever had during my years of helping people of various ages learn more about nature.

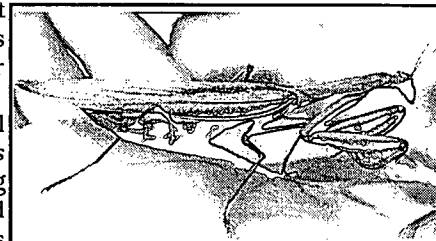
The phone call told of a Praying Mantis being seen on the outside wall of the yacht club. Yes, they had captured it! My first question was, "Are you sure it isn't a walking stick?" After being assured that indeed it was a Praying Mantis, and me biting my tongue for asking my doubting question, I got to wondering what on earth a genuine Praying Mantis was doing as far north as Sister Bay.

Within a few days the beautiful 3 in. European Mantid (*Mantis religiosa*) was hypnotically peering at us from the end of a Basswood stick, perhaps wondering when its next meal would arrive.

An advertisement I read in a science education magazine in 1960 told of Praying Mantis egg cases for sale. Soon I had several placed inside one of our terrariums. Surely I had many doubting Thomases in my classes, hopelessly staring into the terrarium at school day after day to see the lifeless and hopeless plastic, foam-like Mantis egg cases.

Then one warm, late spring morning there came a "WHOOPEE!" from the students that must have carried throughout most of the junior high school in Wisconsin Rapids. The case was full of "teenzy weenzy" baby Praying Mantises. Finally they had hatched. The students believed me and my spirits soared.

Please see **MANTIS**, Page 3



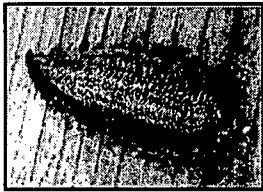
Female Praying Mantis (*Mantis religiosa*)
Photo: Roy Lukes

MANTIS, from Page 3

It wasn't long before the youngsters realized, by their careful observing, that the tiny insects were eating each other. "They're cannibalistic! What should we do?"

One by one, the students took their own pet Praying Mantis home where they would attempt to raise it. How eagerly the quarter-inch-long creatures accepted small bits of raw meat dangled in front of them on a piece of thread. Flies quickly disappeared from the glass case.

Our lone surviving Mantis at school grew quickly and became quite the pal to everyone. "It" was a terror to other insects but perfectly harmless to humans. In retrospect,



Praying Mantis egg case
Photo: Janice Stiefel

this may have been one of the most important lessons my 140 science students learned that year. How

thrilled I was to watch what at first were very squeamish students eventually allow the fearsome-looking insect crawl up their arm or perch on the tip of an outstretched finger.

What really developed my initial interest in the Praying Mantis was a fascinating chapter, "Dinah Was a Mantis" that I read in Edwin Way Teale's book, *Near Horizons, The Story of an Insect Garden*, published by Robert Hale Limited (London) in 1947.

Following our highly successful adventure with the Praying Mantis, I wrote a letter to Mr. Teale describing in detail the fun and learning that, in a way, he had helped to promote. Naturally I had hoped to receive a reply from the author but never did. Later, after reading most of the great books he wrote on nature, I came to realize how unusually busy a person he was.

Had the movie, "ET" been produced when my students and I were having the times of our lives with the pet Mantis perhaps they, too, would have nicknamed it "ET," as we have done today—years later. The

triangular-shaped head and large compound eyes of the Praying Mantis immediately reminded us of the lovable "ET" of movie fame. Only one species of mantid, of the 1,800 worldwide, is native to the United States, the Carolina Mantid. The only mantids fairly common in parts of the northern states are two introduced species—the European Mantid (about two inches long) and the Chinese Mantid, (about four inches long).

The identifying feature of our European Mantid is the black-ringed spot beneath both of its fore coxae, those parts of the front legs nearest the thorax. These legs are heavily armored with spines and teeth and can move with great speed to capture its prey. These include many kinds of insects regarded by people to be helpful in some cases and harmful in others. The mantids don't choose. They simply eat.

Mantids' very strong mouth parts are capable of biting through the quite hard, plastic-like, chitinous exoskeletons of insects such as beetles and wasps. The long middle and hind legs give the Praying Mantis the ability to remain motionless for many minutes at a time, its front legs, "raised in prayer," as it patiently waits for its prey insects to unsuspectingly crawl or land near the perpetually hungry mantis. Obviously its praying-like attitude is reflected in the "religiosa" species name of the European Mantid.

In light of the Praying Mantis' amazing front leg speed in seizing its prey, the mantis is otherwise a slow-moving insect. The winged adults' flight is short and labored.

What a thing of beauty to see a mantid slowly turn its head and watch your every movement as though thoroughly captivated. I wonder whether the Mantis is the only insect able to turn its head and look over its shoulder like a human. Little wonder it is such an enchanting creature.

And so it was with our "ET," like Edwin Way Teale's *Dinah*, "Life drifted into death with the calm transition of day passing through twilight into darkness." Everyone should have at least one pet Praying Mantis in their life, an emotional thrill, an enriching



From the Editor's Desk ...

It is an honor and a privilege to be the new editor of the *Wisconsin Entomological Society Newsletter*. Les Ferge has faithfully edited this publication for over eleven years and I thank him for his efforts on behalf of the organization. He has performed a valuable service in educating all of us and is a special inspiration to me. If it weren't for Les, I would have given up long ago in my moth identification project. I can't thank him enough.

Over the years I have studied both plants and insects and have often found that insects are considered insignificant in their relationship to plants, unless they become pests, of course. There seems to be little interest in learning some of these secrets of the natural world. That is one reason I agreed to edit this newsletter. I know there are many anecdotes of insect observations and where else can we learn, but in a publication such as this? Therefore, I encourage everyone to share what they have learned and discovered — no matter if you are an amateur or a professional entomologist.

Janice Stiefel, Editor

treat, a form of educational therapy at its best, a genuine ET to top them all. ☺

Roy has been writing nature columns for over 30 years in various publications. He and his wife, Charlotte, operate their Nature-Wise business out of their home in the woods near Egg Harbor, WI. They teach nature classes, present illustrated lectures, and sell their nature photographs while trying to KEEP DOOR COUNTY WILD! Presently, they are working on their fifth book, scheduled for publication later this year. Roy and Charlotte can be reached at 3962 Hillside Rd., Egg Harbor, WI 54209-9432 — e-mail: lukes@dcwis.com or at his website: <http://doorbell.net/lukes/index.htm>

LEPIDOPTERA, from Page 1

Parkinson also noted this, as moths collected in Burnett County in mid-May were as much as three to four weeks earlier than usual. Summer temperatures were consistently above average, with severe storms and heavy rains in June. Many butterfly species were scarcer than usual. However, the Swengels reported unprecedented high numbers of *Speyeria idalia* and *aphrodite* in their prairie study sites, except for Muralt Prairie, where the *idalia* population is in grave trouble.

Ferge and Parkinson found relatively low numbers of late season and adult hibernating moth species. *Noctua pronuba*, the introduced European Noctuid, has spread statewide.

Monarchs returned early, with multiple individuals seen by Swengels from 18-22 May in Sauk, Jackson and Burnett Counties. Despite this seemingly good early start, Monarch numbers were low throughout the season. Ebner noted small flights in August and September, with the last individual seen on 11 October in Waukesha County.

More species of migrant butterflies were seen than in the past several years, with *Hylephila phyleus*, *Euptoteta claudia* and *Junonia coenia* the most widespread. *Atalopedes campestris*, *Pontia protodice*, *Colias cesonia*,

Eurema lisa, *Nathalis iole*, and *Strymon melinus* were recorded in southern counties in rather low numbers—mostly later in the season. A few individuals of *Phoebis sennae eubule* were seen in Grant County and one stray was documented in Door County (see photo on Page 2). Among the moths, *Hyles lineata* became widespread and common by September.

Individuals of several southern Noctuid moth species were collected, including *Anticarsia gemmatilis*, *Mocis texana*, *Rachiptusia ou*, *Pseudoplusia includens*, and *Magusa orbifera*.

New county records are indicated by county names appearing in CAPITAL letters.

ABBREVIATIONS: SNA = State Natural Area
SFA = State Fishery Area
SF = State Forest
CF = County Forest

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CBF Carol B. Ferge
JCP James C. Parkinson
JJS Janice J. Stiefel

Coordinator: Les Ferge
JAE James E. Ebner
LAF Leslie A. Ferge
TR Tom Rocheleau
SAS Ann/Scott Swengel

MONA No.	SPECIES NAME	COUNTY	SITE NAME	DATE	CONTR
BUTTERFLIES					
3961	<i>Erynnis persius</i> (Scudder)	Portage	Emmons Creek SFA	6 May 1998	TR
4006	<i>Oarisma powesheik</i> (Parker)	Green Lake	Puchyan Prairie SNA	1 Jul 1998	TR
4013	<i>Hylephila phyleus</i> (Drury)	Crawford	Prairie du Chien	15 Aug 1998	JCP
4013	<i>Hylephila phyleus</i> (Drury)	Crawford	Prairie du Chien	28 Sep 1998	CBF
4013	<i>Hylephila phyleus</i> (Drury)	Grant	Jamestown Twp.	29 Aug 1998	JCP
4013	<i>Hylephila phyleus</i> (Drury)	Grant	Cassville	5 Sep 1998	CBF
4013	<i>Hylephila phyleus</i> (Drury)	JEFFERSON	Lake Mills	5 Sep 1998	JCP
4049	<i>Atalopedes campestris</i> (Boisduval)	Crawford	Prairie du Chien	28 Sep 1998	LAF
4049	<i>Atalopedes campestris</i> (Boisduval)	Grant	Jamestown Twp.	5 Sep 1998	LAF
4052	<i>Problema byssus</i> (Edwards)	Grant	Cassville	26 Jun 1998	LAF
4058	<i>Poanes massasoit</i> (Scudder)	Trempealeau	Tamarack Creek Bog SNA	27 Jun 1998	LAF
4064	<i>Poanes viator</i> (Edwards)	Green Lake	Puchyan Prairie SNA	1 Jul 1998	TR
4072	<i>Euphyes dion</i> (Edwards)	Green Lake	Puchyan Prairie SNA	1 Jul 1998	TR
4072	<i>Euphyes dion</i> (Edwards)	Trempealeau	Tamarack Creek Bog SNA	27 Jun 1998	LAF
4080	<i>Atrytonopsis hianna</i> (Scudder)	DANE	Mazomanie Bluff Prairie	27 May 1998	TR
4096	<i>Amblyscirtes hegon</i> (Scudder)	Douglas	Oakland Twp.	16 May 1998	LAF
4096	<i>Amblyscirtes hegon</i> (Scudder)	Price	Fifield Twp.	15 May 1998	LAF
4193	<i>Pontia protodice</i> (Bdv. & LeConte)	Sauk	International Crane Foundation	21-Aug-98	SAS
4224	<i>Colias cesonia</i> (Stoll)	Sauk	International Crane Foundation	23-Aug-98	SAS
4228	<i>Phoebis sennae eubule</i> (Linnaeus)	DOOR	Bailey's Harbor	5 Sep 1998	JJS
4228	<i>Phoebis sennae eubule</i> (Linnaeus)	Grant	Jamestown Twp.	5 Sep 1998	LAF
4228	<i>Phoebis sennae eubule</i> (Linnaeus)	Grant	Cassville	5 Sep 1998	LAF
4248	<i>Nathalis iole</i> Boisduval	Crawford	Prairie du Chien	16 Sep 1998	JCP
4253	<i>Lycaena dione</i> (Scudder)	Portage	Buena Vista Marsh	25-Jun-98	SAS
4256	<i>Lycaena hylus</i> (Cramer)	Grant	Jamestown Twp.	5 Sep 1998	LAF
4256	<i>Lycaena hylus</i> (Cramer)	Portage	Buena Vista Marsh	27-May-98	SAS
4278	<i>Satyrrium acadicum</i> (Edwards)	Trempealeau	Tamarack Creek Bog SNA	27 Jun 1998	LAF
4278	<i>Satyrrium acadicum</i> (Edwards)	WAUSHARA	Wild Rose	22 Jul 1998	TR
4285	<i>Satyrrium liparops strigosum</i> (Harris)	Waukesha	Okauchee	10 Jul 1998	JAE
4322	<i>Incisalia augustinus</i> (Westwood)	MARQUETTE	Comstock Bog SNA	9 May 1998	LAF
4324	<i>Incisalia polios</i> Cook & Watson	CLARK	Foster Twp.	25 Apr 1998	LAF
4325	<i>Incisalia irus</i> (Godart)	EAU CLAIRE	Eau Claire County Forest	06-May-98	SAS
4326	<i>Incisalia henrici</i> (Grote & Robinson)	PRICE	Fifield Twp.	1 May 1998	CBF
4326	<i>Incisalia henrici</i> (Grote & Robinson)	Price	Fifield Twp.	17 May 1998	JCP
4336	<i>Strymon melinus</i> Hubner	Crawford	Prairie du Chien	15 Aug 1998	LAF
4362	<i>Everes amyntula</i> (Boisduval)	Burnett	Danbury	16 May 1998	LAF

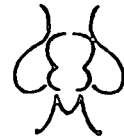
MONA No.	SPECIES NAME	COUNTY	SITE NAME	DATE	CONTR
4374	<i>Lycaeides idas nabokovi</i> Masters	Forest	Nashville Twp.	24-Jun-98	SAS
4374	<i>Lycaeides idas nabokovi</i> Masters	Langlade	Ainsworth Twp.	24-Jun-98	SAS
4440	<i>Junonia coenia</i> (Hubner)	Crawford	Prairie du Chien	29 Sep 1998	JCP
4440	<i>Junonia coenia</i> (Hubner)	Door	Bailey's Harbor	18 Sep 1998	JJS
4440	<i>Junonia coenia</i> (Hubner)	Grant	Dickeyville	16 Sep 1998	JCP
4440	<i>Junonia coenia</i> (Huebner)	Jackson	Jackson CF & Black River SF	26-May-98	SAS
4440	<i>Junonia coenia</i> (Huebner)	Waukesha	Okauchee	9 Sep 1998	JAE
4447	<i>Euptoieta claudia</i> (Cramer)	Crawford	Hogback Prairie	30-Jun-98	SAS
4447	<i>Euptoieta claudia</i> (Cramer)	Crawford	Prairie du Chien	5 Sep 1998	LAF
4447	<i>Euptoieta claudia</i> (Cramer)	Grant	Cassville	28 Sep 1998	LAF
4447	<i>Euptoieta claudia</i> (Cramer)	Portage	Buena Vista Marsh	01-Jul-98	SAS
4452	<i>Speyeria idalia</i> (Drury)	Crawford	Hogback Prairie	30-Jun-98	SAS
4452	<i>Speyeria idalia</i> (Drury)	Green	Muralt Bluff Prairie	06-Jul-98	SAS
4452	<i>Speyeria idalia</i> (Drury)	Portage	Buena Vista Marsh	25-Jun-98	SAS
4452	<i>Speyeria idalia</i> (Drury)	St. Croix	W of Roberts	07-Jul-98	SAS
4466	<i>Boloria frigga</i> (Thunberg)	Price	Fifield Twp.	15 May 1998	LAF
4471	<i>Boloria freija</i> Thunberg	Douglas	Oakland Twp.	16 May 1998	LAF
4471	<i>Boloria freija</i> Thunberg	Price	Fifield Twp.	1 May 1998	LAF
4489	<i>Chlosyne gorgone carlota</i> (Reakirt)	Jackson	Jackson CF & Black River SF	13-May-98	SAS
4489	<i>Chlosyne gorgone carlota</i> (Reakirt)	Portage	Buena Vista Marsh	26-Aug-98	SAS
4596	<i>Erebia discoidalis</i> (Kirby)	Price	Fifield Twp.	1 May 1998	LAF
4611	<i>Oeneis jutta ascerta</i> Masters & Sorenson	BURNETT	Webb Lake Twp.	16 May 1998	LAF
4611	<i>Oeneis jutta ascerta</i> Masters & Sorenson	Douglas	Oakland Twp.	16 May 1998	JCP
M O T H S					
GEOMETRIDAE					
6583	<i>Anacamptodes ephyraria</i> (Wlk.)	WAUSHARA	Lunch Creek Fen	1 Jul 1998	TR
6595	<i>Cleora projecta</i> (Wlk.)	PRICE	Fifield Twp.	1 May 1998	LAF
6663	<i>Paleacrita merriccata</i> Dyar	TREMPEALEAU	Trempealeau	26 Mar 1998	LAF
6704	<i>Erastria coloraria</i> (F.)	Burnett	Kohler-Peet Barrens SNA	15 May 1998	LAF
6704	<i>Erastria coloraria</i> (F.)	Jackson	Black River Falls	15 May 1998	RJB
6738	<i>Euchlaena milnei</i> McD.	Grant	Cassville	26 Jun 1998	LAF
7140	<i>Cyclophora nanaria</i> (Wlk.)	GREEN	Brooklyn State Wildlife Area	28 Aug 1998	TR
7140	<i>Cyclophora nanaria</i> (Wlk.)	WAUSHARA	Lunch Creek Fen	11 Sep 1998	TR
7218	<i>Thera contractata</i> (Pack.)	Door	Bailey's Harbor	19-Sep-98	JJS
7433	<i>Epirrita autumnata henshawi</i> (Swett)	DOOR	Bailey's Harbor	17-Oct-98	JJS
7433	<i>Epirrita autumnata henshawi</i> (Swett)	MARQUETTE	Comstock Bog SNA	16 Oct 1998	LAF
7433	<i>Epirrita autumnata henshawi</i> (Swett)	TREMPEALEAU	Trempealeau	24 Oct 1998	JCP
LASIOCAMPIDAE					
7685	<i>Heteropacha rileyana</i> Harv.	RICHLAND	Richwood Twp.	14 Aug 1998	JCP
SATURNIIDAE					
7719	<i>Anisota senatoria</i> (J. E. Smith)	MARATHON	Mosinee	11 Jun 1998	JCP
7723	<i>Anisota virginiana</i> (Drury)	BURNETT	Danbury	16 May 1998	JCP
SPHINGIDAE					
7775	<i>Manduca sexta</i> (L.)	MARQUETTE		18 Sep 1998	JCP
7789	<i>Ceratomia catalpae</i> (Bdv.)	Green	Brooklyn State Wildlife Area	28 Aug 1998	TR
ARCTIIDAE					
8051	<i>Crambidia casta</i> (Pack.)	BURNETT	Kohler-Peet Barrens SNA	24 Aug 1998	LAF
8051	<i>Crambidia casta</i> (Pack.)	COLUMBIA	Rocky Run Oak Savanna SNA	10 Aug 1998	TR
8051	<i>Crambidia casta</i> (Pack.)	WAUSHARA	White River Wildlife Area	15 Aug 1998	TR
8052	<i>Crambidia pura</i> B. & McD.	BURNETT	Kohler-Peet Barrens SNA	24 Aug 1998	LAF
8136	<i>Spilosoma dubia</i> (Wlk.)	WAUSHARA	Bass Lake Fen SNA	17 Jun 1998	TR
8146	<i>Ecpantheria scribonia</i> (Stoll)	Burnett	Namekagon Barrens	16 May 1998	RJB
8162	<i>Platarctia parthenos</i> (Harr.)	Burnett	Namekagon Barrens	16 May 1998	RJB
8187	<i>Grammia celia</i> (Saund.)	DANE	Mazomanie Bluff Prairie	15 May 1998	TR
NOCTUIDAE					
8329	<i>Idia diminuendis</i> (B. & McD.)	WAUSHARA	White River Wildlife Area	17 Jul 1998	TR
8359	<i>Macrochilo bivittata</i> (Grt.)	Marquette	Comstock Bog SNA	10 Jul 1998	LAF
8366	<i>Tetanolita mynesalis</i> (Wlk.)	DANE	Middleton	17 Sep 1998	LAF
8368	<i>Tetanolita floridana</i> (Sm.)	GREEN	Brooklyn State Wildlife Area	10 Sep 1998	TR
8412	<i>Melanomma auricinctaria</i> Grt.	DANE	Walking Iron Park	29 Jul 1998	TR
8574	<i>Anticarsia gemmatalis</i> Hbn.	MARQUETTE	Comstock Bog SNA	16 Oct 1998	LAF
8592	<i>Cissusa spadix</i> (Cram.)	COLUMBIA	Rocky Run Oak Savanna SNA	19 May 1998	TR
8592	<i>Cissusa spadix</i> (Cram.)	Trempealeau	Trempealeau	24 Apr 1998	LAF
8699	<i>Zale obliqua</i> (Gn.)	Burnett	Namekagon Barrens	16 May 1998	RJB
8745	<i>Mocis texana</i> (Morr.)	Marquette	Comstock Bog SNA	16 Oct 1998	LAF
8792	<i>Catocala vidua</i> (J. E. Smith)	MARQUETTE	Comstock Bog SNA	18 Sep 1998	JCP
8796	<i>Catocala nebulosa</i> Edw.	Green	Albany	14 Aug 1998	RJB

MONA No.	SPECIES NAME	COUNTY	SITE NAME	DATE	CONTR
8841	<i>Catocala abbreviatella</i> Grt.	Waushara	Wedde Creek SFA	1 Jul 1998	TR
8844	<i>Catocala amestris</i> Stkr.	Jackson	Black River Falls	19 Jul 1998	JCP
8844	<i>Catocala amestris</i> Stkr.	Waushara	Wedde Creek SFA	17 Jul 1998	TR
8865	<i>Catocala praecleara</i> G. & R.	WAUSHARA	Lunch Creek Fen	17 Jul 1998	TR
8890	<i>Pseudoplusia includens</i> (Wlk.)	Dane	Middleton	25 Sep 1998	LAF
8895	<i>Rachiplusia ou</i> (Gn.)	Dane	Middleton	6 Sep 1998	LAF
8909	<i>Autographa rubida</i> Ottol.	Burnett	Danbury	16 May 1998	JCP
8946	<i>Syngrapha microgamma</i> (Hbn.)	Marathon	Hatley	19 Jun 1998	JCP
9061	<i>Cerma cora</i> Hbn.	Burnett	Danbury	16 May 1998	JCP
9061	<i>Cerma cora</i> Hbn.	Burnett	Namekagon Barrens	16 May 1998	RJB
9061	<i>Cerma cora</i> Hbn.	Columbia	Rocky Run Oak Savanna SNA	14 May 1998	TR
9085	<i>Tarachidia semiflava</i> (Gn.)	WAUSHARA	White River Wildlife Area	17 Jul 1998	TR
9085	<i>Tarachidia semiflava</i> (Gn.)	WAUSHARA	Wedde Creek SFA	17 Jul 1998	TR
9089	<i>Tarachidia binocula</i> (Grt.)	COLUMBIA	Rocky Run SNA	19 May 1998	TR
9343	<i>Apamea apamiformis</i> (Gn.)	WAUSHARA	Bass Lake Fen SNA	26 Jul 1998	TR
9344	<i>Apamea plutonia</i> (Grt.)	WAUSHARA	Lunch Creek Wildlife Area	17 Jun 1998	TR
9380	<i>Apamea relicina</i> (Morr.)	WAUSHARA	White River Wildlife Area	11 Sep 1998	TR
9396	<i>Eremobina claudens</i> (Wlk.)	VILAS	Boulder Junction	31 Jul 1998	JCP
9415	<i>Oligia bridghami</i> (G. & R.)	LANGLADE	Summit Lake	25 Aug 1998	JCP
9415	<i>Oligia bridghami</i> (G. & R.)	VILAS	Boulder Junction	2 Aug 1998	JCP
9415	<i>Oligia bridghami</i> (G. & R.)	WAUSHARA	Bass Lake Fen SNA	17 Jul 1998	TR
9427	<i>Meropleon diversicolor</i> (Morr.)	BURNETT	Kohler-Peet Barrens SNA	24 Aug 1998	LAF
9427	<i>Meropleon diversicolor</i> (Morr.)	GREEN	Brooklyn State Wildlife Area	28 Aug 1998	TR
9427	<i>Meropleon diversicolor</i> (Morr.)	PRICE	Fifield Twp.	21 Aug 1998	LAF
9427	<i>Meropleon diversicolor</i> (Morr.)	WAUSHARA	Wild Rose	26 Aug 1998	TR
9428	<i>Meropleon ambifuscum</i> (Newman)	Marquette	Comstock Bog SNA	28 Aug 1998	LAF
9428	<i>Meropleon ambifuscum</i> (Newman)	WAUSHARA	Wild Rose	11 Sep 1998	TR
9428	<i>Meropleon ambifuscum</i> (Newman)	WAUSHARA	Lunch Creek Fen	26 Aug 1998	TR
9428	<i>Meropleon ambifuscum</i> (Newman)	WAUSHARA	Bass Lake Fen SNA	31 Aug 1998	TR
9429	<i>Lemmeria digitalis</i> (Grt.)	WAUSHARA	Wild Rose	18 Sep 1998	TR
9429	<i>Lemmeria digitalis</i> (Grt.)	WAUSHARA	Lunch Creek Fen	29 Sep 1998	TR
9435	<i>Spartiniphaga inops</i> (Grt.)	MARQUETTE	Comstock Bog SNA	28 Aug 1998	JCP
9439	<i>Chortodes basistriga</i> (McD.)	PRICE	Fifield Twp.	21 Aug 1998	LAF
9443	<i>Chortodes defecta</i> (Grt.)	WAUSHARA	Bass Lake Fen SNA	1 Jul 1998	TR
9450	<i>Archanara subflava</i> (Grt.)	Waushara	Bass Lake Fen SNA	15 Aug 1998	TR
9450	<i>Archanara subflava</i> (Grt.)	Waushara	Bass Lake Fen SNA	17 Jul 1998	TR
9450	<i>Archanara subflava</i> (Grt.)	WAUSHARA	Bass Lake Fen SNA	26 Jul 1998	TR
9451	<i>Archanara laeta</i> (Morr.)	GRANT	Blue River	14 Aug 1998	LAF
9464	<i>Papaipema cerina</i> (Grt.)	Richland	Richwood Twp.	16 Sep 1998	JCP
9464	<i>Papaipema cerina</i> (Grt.)	Waukesha	Eagle	13 Sep 1998	JCP
9464	<i>Papaipema cerina</i> (Grt.)	WAUSHARA	Wild Rose	11 Sep 1998	TR
9464	<i>Papaipema cerina</i> (Grt.)	WAUSHARA	Wild Rose	31 Aug 1998	TR
9466	<i>Papaipema cataphracta</i> (Grt.)	RICHLAND	Richwood Twp.	16 Sep 1998	JCP
9472	<i>Papaipema harrisii</i> (Grt.)	WAUSHARA	Lunch Creek Fen	11 Sep 1998	TR
9472	<i>Papaipema harrisii</i> (Grt.)	WAUSHARA	Wild Rose	26 Aug 1998	TR
9482	<i>Papaipema speciosissima</i> (G. & R.)	Marquette	Comstock Bog SNA	28 Aug 1998	LAF
9482	<i>Papaipema speciosissima</i> (G. & R.)	WAUSHARA	Bass Lake Fen SNA	26 Aug 1998	TR
9485	<i>Papaipema baptisiae</i> (Bird)	Columbia	Rocky Run Oak Savanna SNA	10 Aug 1998	TR
9485	<i>Papaipema baptisiae</i> (Bird)	WAUSHARA	White River Wildlife Area	18 Sep 1998	TR
9486	<i>Papaipema birdi</i> (Dyar)	Green	Brooklyn State Wildlife Area	10 Sep 1998	TR
9490	<i>Papaipema nepheleptena</i> (Dyar)	RICHLAND	Richwood Twp.	16 Sep 1998	JCP
9490	<i>Papaipema nepheleptena</i> (Dyar)	WAUSHARA	Wild Rose	18 Sep 1998	TR
9490	<i>Papaipema nepheleptena</i> (Dyar)	WAUSHARA	Bass Lake Fen SNA	31 Aug 1998	TR
9493	<i>Papaipema appassionata</i> (Harv.)	LANGLADE	Summit Lake	25 Aug 1998	JCP
9493	<i>Papaipema appassionata</i> (Harv.)	Marquette	Comstock Bog SNA	28 Aug 1998	JCP
9493	<i>Papaipema appassionata</i> (Harv.)	WAUSHARA	Bass Lake Fen SNA	31 Aug 1998	TR
9495	<i>Papaipema furcata</i> (Sm.)	WAUSHARA	Wild Rose	11 Sep 1998	TR
9497	<i>Papaipema necopina</i> (Grt.)	Green	Brooklyn State Wildlife Area	28 Aug 1998	TR
9500	<i>Papaipema maritima</i> Bird	WAUSHARA	White River Wildlife Area	18 Sep 1998	TR
9500	<i>Papaipema maritima</i> Bird	WAUSHARA	Wild Rose	5 Sep 1998	TR
9501	<i>Papaipema eupatorii</i> (Lyman)	OCONTO	Pensaukee	12 Sep 1998	LAF
9501	<i>Papaipema eupatorii</i> (Lyman)	RICHLAND	Richwood Twp.	16 Sep 1998	JCP
9501	<i>Papaipema eupatorii</i> (Lyman)	WAUSHARA	Lunch Creek Fen	18 Sep 1998	TR
9501	<i>Papaipema eupatorii</i> (Lyman)	WAUSHARA	Wild Rose	29 Sep 1998	TR
9502	<i>Papaipema nelita</i> (Stkr.)	WAUSHARA	Wild Rose	26 Aug 1998	TR
9503	<i>Papaipema rigida</i> (Grt.)	Marquette	Comstock Bog SNA	28 Aug 1998	LAF
9503	<i>Papaipema rigida</i> (Grt.)	WAUSHARA	Wild Rose	11 Sep 1998	TR
9503	<i>Papaipema rigida</i> (Grt.)	WAUSHARA	Lunch Creek Fen	26 Aug 1998	TR

MONA No.	SPECIES NAME	COUNTY	SITE NAME	DATE	CONTR
9506	<i>Papaipema sciata</i> Bird	WAUSHARA	Lunch Creek Fen	18 Sep 1998	TR
9509	<i>Papaipema unimoda</i> (Sm.)	BURNETT	Kohler-Peet Barrens SNA	24 Aug 1998	LAF
9509	<i>Papaipema unimoda</i> (Sm.)	DOUGLAS	Superior	23 Aug 1998	LAF
9509	<i>Papaipema unimoda</i> (Sm.)	OCONTO	Pensaukee	12 Sep 1998	LAF
9509	<i>Papaipema unimoda</i> (Sm.)	WAUSHARA	Lunch Creek Fen	11 Sep 1998	TR
9509	<i>Papaipema unimoda</i> (Sm.)	WAUSHARA	Bass Lake Fen SNA	31 Aug 1998	TR
9516	<i>Hydraecia stramentosa</i> Gn.	MARQUETTE	Comstock Bog SNA	28 Aug 1998	JCP
9522	<i>Iodopepla u-album</i> (Gn.)	MARQUETTE	Comstock Bog SNA	21 May 1998	LAF
9523	<i>Bellura gortynoides</i> Wlk.	WAUSHARA	Bass Lake Fen SNA	15 Aug 1998	TR
9524	<i>Bellura brehmei</i> (B. & McD.)	PRICE	Fifield Twp.	19 Jun 1998	LAF
9548	<i>Conservula anodonta</i> (Gn.)	Marquette	Comstock Bog SNA	10 Jul 1998	LAF
9548	<i>Conservula anodonta</i> (Gn.)	WAUSHARA	Lunch Creek Fen	1 Jul 1998	TR
9551	<i>Enargia mephisto</i> Franc.	WAUSHARA	Lunch Creek Fen	1 Jul 1998	TR
9557	<i>Chytonix sensilis</i> Grt.	WAUSHARA	Wedde Creek SFA	17 Jul 1998	TR
9629	<i>Fagitana littera</i> (Gn.)	Marquette	Comstock Bog SNA	10 Jul 1998	LAF
9629	<i>Fagitana littera</i> (Gn.)	WAUSHARA	Bass Lake Fen SNA	17 Jun 1998	TR
9629	<i>Fagitana littera</i> (Gn.)	WAUSHARA	Lunch Creek Wildlife Area	17 Jun 1998	TR
9637	<i>Magusa orbifera</i> (Wlk.)	Dane		25 Oct 1998	LAF
9640	<i>Amphipyra glabella</i> (Morr.)	WAUSHARA	Lunch Creek Fen	17 Jul 1998	TR
9649	<i>Athetis mendosa</i> (McD.)	DOUGLAS	Superior	23 Aug 1998	LAF
9754	<i>Plagiomimicus pityochromus</i> Grt.	Dane	Walking Iron Park	29 Jul 1998	TR
9887.1	<i>Lithophane franclemonti</i> Metzler	Dane	Festge Park	28 Mar 1998	TR
9887.1	<i>Lithophane franclemonti</i> Metzler	GRANT	Cassville	28 Mar 1998	LAF
9887.1	<i>Lithophane franclemonti</i> Metzler	TREMPEALEAU	Trempealeau	26 Mar 1998	LAF
9891	<i>Lithophane amanda</i> (Sm.)	TREMPEALEAU	Trempealeau	24 Apr 1998	JCP
9892	<i>Lithophane disposita</i> Morr.	Dane	Festge Park	28 Mar 1998	TR
9892	<i>Lithophane disposita</i> Morr.	TREMPEALEAU	Trempealeau	26 Mar 1998	LAF
9946	<i>Epiglaea decliva</i> (Grt.)	MARQUETTE	Comstock Bog SNA	16 Oct 1998	LAF
9946	<i>Epiglaea decliva</i> (Grt.)	TREMPEALEAU	Trempealeau	24 Oct 1998	JCP
9946	<i>Epiglaea decliva</i> (Grt.)	WAUSHARA	Wild Rose	29 Sep 1998	TR
9967	<i>Hillia iris</i> (Zett.)	OCONTO	Pensaukee	12 Sep 1998	LAF
9999	<i>Brachylomia discinigra</i> (Wlk.)	LANGLADE	Summit Lake	26 Aug 1998	JCP
10008	<i>Feralia comstocki</i> (Grt.)	TREMPEALEAU	Tamarack Creek Bog SNA	24 Apr 1998	LAF
10059	<i>Homohadena badistriga</i> (Grt.)	GRANT	Cassville	26 Jun 1998	LAF
10108	<i>Oncocnemis viridincta</i> Sm.	BURNETT	Kohler-Peet Barrens SNA	24 Aug 1998	LAF
10434	<i>Faronta rubripennis</i> (G. & R.)	Green	Albany	14 Aug 1998	RJB
10440	<i>Leucania linita</i> Gn.	WAUSHARA	Bass Lake Fen SNA	17 Jun 1998	TR
10694	<i>Eucloptocnemis fimbriaris</i> (Gn.)	MARQUETTE	Comstock Bog SNA	18 Sep 1998	JCP
10738	<i>Euxoa mimallonis</i> (Grt.)	WAUSHARA	White River Wildlife Area	11 Sep 1998	TR
10755	<i>Euxoa declarata</i> (Wlk.)	MARQUETTE	Comstock Bog SNA	28 Aug 1998	LAF
10755	<i>Euxoa declarata</i> (Wlk.)	WAUSHARA	White River Wildlife Area	15 Aug 1998	TR
10801	<i>Euxoa ochrogaster</i> (Gn.)	DOUGLAS	Superior	23 Aug 1998	LAF
10817	<i>Euxoa obeliscoides</i> (Gn.)	Columbia	Rocky Run Oak Savanna SNA	10 Aug 1998	TR
10831	<i>Euxoa niveilinea</i> (Grt.)	MARQUETTE	Comstock Bog SNA	28 Aug 1998	LAF
10863	<i>Euxoa manitobana</i> McD.	Columbia	Rocky Run Oak Savanna SNA	7 Jul 1998	TR
10869	<i>Richia grotei</i> (Franc. & Todd)	COLUMBIA	Rocky Run Oak Savanna SNA	10 Aug 1998	TR
10869	<i>Richia grotei</i> (Franc. & Todd)	GREEN	Albany	14 Aug 1998	RJB
10997	<i>Cerastis fishii</i> (Grt.)	BURNETT	Webb Lake Twp.	16 May 1998	LAF
11012.1	<i>Noctua pronuba</i> (L.)	GRANT	Cassville	29 Aug 1998	JCP
11012.1	<i>Noctua pronuba</i> (L.)	VILAS	Boulder Junction	2 Aug 1998	JCP
11012.1	<i>Noctua pronuba</i> (L.)	WAUSHARA	Wedde Creek SFA	1 Jul 1998	TR
11012.1	<i>Noctua pronuba</i> (L.)	WAUSHARA	Bass Lake Fen SNA	26 Jul 1998	TR
11063	<i>Pyrrhia umbra</i> (Hufn.)	COLUMBIA	Rocky Run Oak Savanna SNA	7 Jul 1998	TR
11072	<i>Heliothis phloxiphagus</i> G. & R.	Dane	Walking Iron Park	15 May 1998	TR
11072.1	<i>Heliothis acesias</i> F. & R.	Dane	Walking Iron Park	15 Jul 1998	TR
11072.1	<i>Heliothis acesias</i> F. & R.	WAUSHARA	White River Wildlife Area	17 Jul 1998	TR
11072.1	<i>Heliothis acesias</i> F. & R.	WAUSHARA	Bass Lake Fen SNA	26 Jul 1998	TR
11095	<i>Schinia indiana</i> (Smith)	Jackson	Jackson CF & Black River SF	02-Jun-98	SAS
11148	<i>Schinia oleagina</i> Morr.	Columbia	Rocky Run Oak Savanna SNA	10 Aug 1998	TR
11149	<i>Schinia trifascia</i> Hbn.	Marquette	Comstock Bog SNA	28 Aug 1998	JCP
11174	<i>Schinia lucens</i> (Morr.)	Waushara	Wedde Creek SFA	1 Jul 1998	TR
11177	<i>Schinia nundina</i> (Drury)	Columbia	Rocky Run Oak Savanna SNA	22 Jul 1998	TR

Address Correction Requested

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Wisconsin Entomological Society Newsletter — March 1999

Page 8

MONARCH, from Page 1

With 3,000 volunteers, Urquhart had been tagging and monitoring the annual flights south but had not learned exactly where the Monarchs spent the winter. Brugger recalled that he had once driven through a sudden storm of Monarch butterflies during a trip through the volcanic mountains west of Mexico City. He related this experience to Urquhart by letter and, ultimately, was talked into returning to the area to search for the butterflies. THEN IT HAPPENED! On January 2, 1975,

Brugger, along with his wife, Catalina, were making their way through a forest of Oyamel Firs. When they reached the 10,000 ft. level, all of a sudden they became aware that the trees were covered with Monarchs. Later estimates indicated that there were as many as 4 million butterflies per acre.

Brugger's discovery opened the flood gates for tourists, as they



flocked to see the beauty of the massed orange and black Monarchs in their winter sanctuary. This was a colorful splendor which was not to be visualized by Brugger, however. He was totally color-blind and could only see the Monarchs in shades of gray.

Unfortunately, we all suffered a great loss when Brugger died at his home in Austin, Texas on November 25, 1998 at the age of 80. ☹

Although Kenneth Brugger never obtained a college degree, his mathematical genius and mechanical aptitude served him well. He was chief engineer for Jockey International's worldwide knitting operations, which involved designing, installing and working with innovative textile machines. One of the machines was the compactor, which compressed cotton fibers so that when they would spring back in the wash, the machine compensated for the inevitable shrinkage. If Brugger had not picked up that Mexican newspaper on that momentous day in 1973, his achievements might have been limited to underwear.

BUG BYTES

Backyard and Field Observations

An e-mail was received from Pat Seawell, in San Antonio, Texas on March 5, 1999. Compared to our climate, where we are still looking at prospects of more snow before we actually can say spring is here, she has butterflies nectaring on blooming plants in her yard. Here is a paragraph from her e-mail:

"Yesterday, while clipping the dead Passion vines, I spied three- or four-day-old Gulf Fritillary caterpillars on fresh new sprouts. There are also about 40 Fritillary eggs on the outside of the net-covered protective custody cage I built last summer. I'm going to have my hands full when they all hatch and must be transferred to plants!" ☹*

**Host plant for Gulf Fritillaries.*

Please send any observations for our future BUG BYTES column to: Janice Stiefel, W6311 Mullet Lane, Plymouth, WI 53073 or e-mail: jstiefel@excel.net