



The glowworm



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Katrina has filled our minds and taken our attention of late! The passing of this storm has truly overshadowed almost everything else in the last few weeks. There are many faithful readers of the *Gloworm* hurting today. Our hearts reach out to each person as we struggle to recover our normal lives. Remember we are in this together and let's lean on one another as we carry on.

A number of people have noted that insects have also responded to the aftermath of the storm. We are currently seeing more butterflies in the garden here at MSU than at any other time this year. This is also the time of year that bees and wasps begin to become aggressive. As they prepare for cold weather they change their eating habits from worms and caterpillars to high energy sugar products, thus they may try to take your soft drink if you are outside. This is also a time in which we must be aware of mosquitoes and other biting insects. Usually after major storms we have increased numbers of these pests. Many of the mosquito species will reproduce in temporary water areas, i.e. ditches and or containers. Often they can cycle in less than a week. It would be good as we clean up after the storm to pay close attention to emptying containers (even small cans) in which water has collected.

We have reports on the 2nd camp to share in this *Gloworm*. We really had a great camp season this year and enjoyed finding some neat 'critters.' Dr. John Guyton has compiled the buggy statistics on the camp and the remainder of this issue will review those items.

Happy Buggin'

Michael R. Williams, PhD
Extension Entomologist

2nd Entomology Camp - Kings Arrow Ranch, Lumberton, MS July 2005

Insect Report

On the *First Collector of Insects* record, Mystina with 26 and Ms LeAnna with 17 are clearly the campers to collect with! LeAnna gets special consideration for submitting 6 insects using their scientific names! Dr. Mike recorded 10 first and was closely followed by his wife, Jan, and TreyLAN each of who reported 9 first. Ryan reported 7 first collected insects. Reporting fewer than 7 first were Dr. David, Dr. John, Micah, Virginia, Triston, Alex, Jackie, Blaze, Ben, Brad, Sean, James, Shery, John Peter., Kriston, Cameron, Christine (our EMT), David H. and Maggie. We began collecting this information as a fun way to generate a list of the insects collected, albeit by common name. The first time we collected the common names of insects was at the Wood Institute camp earlier this summer where 15 campers reported collecting 71 different insects in 18 orders. At the Kings Arrow Ranch we had 25 campers report collecting 131 different insects in 22 orders.

We appear to be breaking our insects reported collected record at each camp. However, Dr. Collison has delicately pointed out that we are not collecting more we are just doing a better job of identifying and quantifying the insects collected - and of course he is correct. I should mention this is due, in large part, to Ms Karen's and group leaders assistance and the entomologists who work individually and patiently with the campers helping them identify their insects. Thanks to all those who have helped us improve our record keeping. At Wood Institute this summer, 1,755 insects were reported collected in 21 orders breaking our prior record from the Tombigbee State Park camp in 2004 and we broke that record at King's Arrow Ranch in July.

Kings Arrow July 2005	1,847 insects reported in 22 orders
Wood Institute June 2005	1,755 insects reported collected in 21 orders
Tombigbee State Park July 2004	1,667 insects reported collected in 17 orders

A camp success story may be in the orders collected, though. At Tombigbee last summer we made a concerted effort to look at the orders not being collected on daily reports and suggested places or techniques to collect those orders. We have continued that practice and it seems to be working very well. Thanks to our group leaders help and campers reports, we are getting a better idea of how many insects we are collecting and we are collecting insects in more orders.

Insects Collected at King's Arrow Ranch, Lumberton MS July 2005

<p>Blattaria green cockroach American Cockroach Oriental Cockroach German Cockroach</p> <p>Coleoptera Bess beetles brown prionius click beetle (3 species) darkling beetle dung beetle ground beetles (3 species) Hercules beetle June beetle (3-5 species) ladybird beetle</p>	<p>lightning bugs longhorn beetle (4-5 species) May beetle (3-5 species) net winged beetle predacious diving beetle prionus beetle rhinoceros beetle rove beetle (2 species) soldier beetle tiger beetle (2-3 species) water beetle water scavenger beetle wax beetle whirly bug beetles</p>	<p>Collembola (not yet sorted) Dermaptera earwig ringed-leg earwig</p> <p>Diptera beefly deerfly fleshfly horsefly apple maggot fly housefly & maggots humpback fly syrphid fly Midas fly</p>
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Diptera cont'd

robber fly
 stable fly
 mosquito
 gnat
 Ephemeroptera
 Mayfly and nymph
 golden mayfly

Hemiptera

ambush bugs (3 species)
 assassin bug
 box elder bug
 coreid bug
 creeping water bug
 giant wheel bug
 green stink bug
 leaf footed bugs
 milkweed bugs
 damsel bug
 plant bugs
 seed bug
 shield back bug
 shore bugs
 soldier bug
 stink bugs
 toad bugs
 water scorpion
 water striders

Homoptera

3 cornered alfalfa hopper
 3 lined leaf hopper
 buffalo tree hopper
 cicadas
 fulgorid leaf hopper
 leaf hopper
 plant hoppers
 sharp shooter
 spittle bug
 stripped spittle bug

Hymenoptera

velvet ant
 black ant
 carpenter ant
 bumble bee

carpenter bee
 honey bee
 mud dauber
 hunter wasp
 paper wasp
 spider wasp
 thread-waisted wasp
 paper wasp
 yellow jacket
 white face hornet
 bald faced hornet

Isoptera

Formosan termite
 subterranean termite

Lepidoptera

black swallowtail
 tiger swallowtail
 spicebush swallowtail
 palamedes swallowtail
 monarch
 Gulf fritillary
 sulfur
 white checkered skipper
Misogata unicolor
Carolyn satye
Darapsa pholus
Euxoa obeliscoides
Hypopia bertholdi
 gray leopard moth
 Hebrew moth
 IO moth
 luna moth
 noctuids (various)
 red spotted purple
 royal (polyphemus) moth
 sphinx moths
 white cabbage

Mantodea

Chinese mantis
 Carolina mantis

Neuroptera

mantid fly
 ant lion
 green lacewing

brown lacewing

Odonata

amberwing dragon fly
 blue darner
 black winged damselfly
 damselfly
 dragonfly larvae
 elise skimmer
 green darner
 narrow wing damsel fly
 striped dragonfly

Orthoptera

field cricket
 camel cricket
 snowy tree cricket
 house cricket
 katydid
 true katydid
 SE lubber grasshopper
 short horned grasshopper
 slant faced grasshopper
 banded winged grasshopper

Phasmida

walking stick

Plecoptera

stoneflies (2 species)

Psocoptera

bark louse

Siphonaptera

dog flea

Thysanoptera

thrips

Thysanura

silverfish
 bristletail

Trichoptera

caddisfly

Non-insect arthropods

pseudoscorpion
 Roly polies
 Millipedes
 centipedes
 numerous spiders

Noteworthy was the very large number of June bugs (4 possibly 5 species) and tiger beetles. Few aquatic insects were noted for the large amount of water.

Announcements

- We also had an adult camp on August 26 and 27. There were 42 campers in attendance. We will also try to get a report out on that one, as well. Dr. John has been somewhat `displaced' because of the storm, but he is OKAY!!! He will have a report to make on the Adult camp soon.
- There will be a `bug night out' collecting activity on Saturday September 17 with Savannah and Robbie Duckworth in Union county, New Albany. Contact Savannah or Ms Robbie at 662-534-7934 duckworth@dixie-net.com to let them know you are coming or to ask for directions to the location. If you have a blacklight and a sheet let Savannah know and plan to bring it. You'll need to come early enough to set it up.
- Fall garden day at Verona on September 17. We'll have a butterfly tent up and be sharing information about butterfly gardens, Come help us spread the good word about BUGS!
- Mid-South - 4-H Entomology Linnaean Games - September 24 at the Mid South Fair in Memphis. This is a part of 4-H day at the fair, so insect collections should be getting final touches and be submitted through your county office earlier that week. The award is good, so let's go!
- Mississippi Bee Essay contest is due January 15, 2006. Title of the essay is **Honey bees in Art and Culture**. Rules for the contest may be seen at http://msucares.com/4h_Youth/4hentomology/bee_essay_contest.html
- If you have entomological artwork and would like to show it off, we will have an entomological art exhibition at the Clay Lyle Building on campus at Mississippi State during the Mississippi Entomological Association meeting during the first week in November. Send or bring it to Dr. M. Williams, Entomology Department, by October 28, 2005. Insect photographs will also be accepted. We'll also take adult submissions.

