ABOUT THE NEWSLETTER

Welcome to Alabama Cooperative Extension System (ACES) where we are committed to providing you research-based information. The main purpose of this newsletter is to provide readers information about critical crop production and pest management information for field crops grown in Alabama. This newsletter promotes sustainable agriculture, i.e., successful farming without depleting natural resources so that future generations can have productive land for food production. Currently, there are over 1,200 subscribers (as of June 2013) and many commercial websites that cross-post this newsletter online resulting in a wider readership. Readers can also download or view the newsletter at ACES Store (https://store.aces.edu/ListItems.aspx?CategoryID=180). There is a multi-institutional editorial board that works swiftly each week to electronically deliver the newsletter every FRIDAY during the summer months (typically from May to September). Research and Extension personnel from all educational institution in Alabama can submit crop production and protection articles of high relevance for immediate release to the audience; authors should pay attention to the guidelines for format and submission deadlines (Wednesdays) on the last page of this newsletter. Readers from States beyond Alabama should check with their university Extension before using any recommendation. To subscribe, please email a short request to bugdoctor@auburn.edu. Once your name is added to the list, you will get a welcome message from the IPM COMM Listserv.

Editorial Board:
Chief Editor: Ayanava Majumdar “Dr. A” – Extension Entomologist & State Sustainable Agricultural Research and Education Coordinator, Auburn Univ.
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Cathy Sabota – Professor of Horticulture, Alabama A&M Univ.
Rudy Pacumbaba—Ext. Specialist, Alabama A&M Univ.
Conrad Bonsi – Professor and Associate Dean, Tuskegee Univ.

Author guidelines are provided on the last page of this newsletter. Articles may be delayed for publication if they are not in the recommended format.

NEWSLETTER ARCHIVE: https://store.aces.edu/ListItems.aspx?CategoryID=180

A Comprehensive Pest Management Newsletter for Farmers across Alabama!

IN THIS ISSUE...
New or updated horticulture publications
AFVGA Conference Promotional Video
Peanut insect pest update
Vegetable insecticide training module now online
Vegetable insect pest update
Recorded IPM webinars now available
Cotton IPM update (IPM blog)
Weed control webinars
Soybean rust update
SARE biennial report available

AG TRAINING EVENTS (FLYERS INCL.)
Row crop & stored grain workshops (4 events)
Specialty crops (fruits/vegetable—7 events listed)

Click on the links above to see the events in details.
ALABAMA PEANUT & VEGETABLE IPM PROGRAMS

The Agronomy & Commercial Horticulture Extension Teams are constantly working to provide you updated information for profitable farming. Now you can get pest information quickly and interact with the Extension Team using social media apps on your smartphone.

PROJECT WEBSITES
Peanut IPM: www.aces.edu/go/88
Vegetable IPM: www.aces.edu/go/87

FACEBOOK CHANNELS TO ‘LIKE’:
Peanut producers: ‘ALABAMA PEANUT IPM PROGRAM’
Vegetable producers & gardeners: ‘ALABAMA VEGETABLE IPM’

Make sure you sign-up for Extension IPM workshops and field days close to you for hands-on crop production and pest management training.

ALABAMA MASTER GARDENER HELPLINE

When you want to know how to get that colorful annual bed installed and growing, to whom do you turn for advice? Are you at a loss for solutions to disease and insect problems? If you’ve got gardening questions, we’ve got answers! Call the Master Gardener Helpline. Trained volunteers are ready, willing, and waiting to help! There are 15 Helpline locations throughout the state of Alabama and calls are answered at least one location year-round. In fact, as you read this, Master Gardeners are manning the phone lines in the Southwest and North Central regions of the state. Give ‘em a call! They’d love to help you with all your gardening needs.

Dial 1-877-252-GROW (4769) and select your location from the short menu to receive the most accurate, local information. Below is a list of the menu options so you will be prepared when you call. If you do not hear your location option in the menu, please select “3” and a Master Gardener will assist you.

<table>
<thead>
<tr>
<th>Option</th>
<th>Location</th>
<th>Included area</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Southwest</td>
<td>from the Gulf Coast to Grove Hill and Greenville</td>
</tr>
<tr>
<td>2</td>
<td>Central and East</td>
<td>from Anniston to Phenix City; metro Montgomery</td>
</tr>
<tr>
<td>3</td>
<td>North Central/West</td>
<td>from Clanton to Birmingham; Hamilton &amp; Carrollton</td>
</tr>
<tr>
<td>4</td>
<td>Northwest</td>
<td>from Decatur/Huntsville to the Shoals &amp; Russellville</td>
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<td>5</td>
<td>Northeast</td>
<td>from Pell City &amp; Gadsden to Cullman and Scottsboro</td>
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<tr>
<td>6</td>
<td>West</td>
<td>area of Demopolis, Greensboro, Selma, &amp; Lowndesboro</td>
</tr>
<tr>
<td>7</td>
<td>Southeast</td>
<td>area of Andalusia, Dothan, Troy, &amp; Eufaula</td>
</tr>
</tbody>
</table>

AFVGA WEBSITE & FACEBOOK PAGE FOR SPECIALTY CROP PRODUCERS

The Alabama Fruit & Vegetable Growers Association (AFVGA, www.afvga.aces.edu) now has a dynamic Facebook page! Please login to Facebook and then enter ‘Alabama Fruit & Vegetable Growers Association’ in the search tool. Once on the page, click on the LIKE button.

Some benefits of joining the AFVGA Facebook page include rapid access to potentially hundreds of crop producers and gardeners across the state, updates regarding upcoming educational workshops with partnering institutions, and direct communication with AFVGA Board members. For more information about the AFVGA, sponsorship of events and memberships, please contact Jackie Cooper, Exec. Sec., AFVGA. (jjcoop61@bellsouth.net).

ALABAMA SUSTAINABLE AGRICULTURE WEBSITE

Organic producers and transitioning farmers can bookmark this website to stay informed of SARE programs, especially grants and special publications. You can also subscribe to the ALABAMA VEGETABLE IPM channel on FACEBOOK.

NEW OR UPDATED EXTENSION HORTICULTURE PUBLICATIONS FOR PRODUCERS AND GARDENERS

Please take note of these new horticultural publications that are now available on ACES website. These have been developed by ACES members from the Commercial Horticulture and Home Grounds Teams. Please click on the links below to know more about the publications and to download free PDF versions. Free copies of these publications are distributed during Extension events.

Commercial Horticulture—Programs and People (EX-0162): [click here]

Growing Herbs (ANR-1164): [click here]

Commercial Muscadine and Bunch Grape Production Guide (ANR-0774): [click here]

Pheromone Traps for Managing Insect Pests (ANR-1431): [click here]

Trap Crops for Managing Insect Pests (ANR-1430): [click here]

Buying Organic—What Does it mean? (ANR1425): [click here]

Insecticides for Organic Commercial and Backyard Vegetable Production (ANR-1428): [click here]

Organic Pest Management Bookmark (ANR-1440-B): [click here]

For more information about Extension publications, visit www.store.aces.edu and type in key words of your query in the “Search” box. Contact a Regional Extension Agent for more information and proper plant or pest identification. Stay in touch with your Regional Extension Agent or County Extension Office for training events near you.

Ayanava Majumdar
Ext. Entomologist

ALABAMA FRUIT AND VEGETABLE GROWERS PROMOTIONAL VIDEO FOR 2014 CONFERENCE

Click on the image to see the new promotional video for the 2014 AFVGA Conference. Visit the www.afvga.aces.edu for more information.
PEANUT INSECT PEST UPDATE

At Headland, we detected 3 *tobacco budworm* moths in pheromone traps during the last 10 days and same number of *corn earworm* moths. We have extensively scouted peanut plots at the Wiregrass Research and Extension Center and not found caterpillars in the peanut foliage. We have seen some early instars of corn earworm 10 days back but nothing this week. We have noticed a high number of *brown stink bugs* under the peanut canopy in several test plots and the numbers have been consistently high in the past two weeks of scouting. This is worth monitoring as we have cotton plated close to our dryland peanut plots.

Starting July, we can expect the first migration of *burrower bugs*, *Pangaeus sp.*, that feed on peanut pods. Right now we found several specimens of the *white-margined burrower bug*, *Sehirus cinctus* (picture on right), in peanut fields and also in vegetable fields that had white plastic on them. These insects are attracted to white, hence the accumulation. Notice the white border to the wings of the latter species that is NOT damaging to peanuts.

Monitoring systems: The best way to look for burrower bugs is to scout directly at the plant base, examine the pods, and collect actual insect samples in a Ziploc bag for identification. Pit fall traps put in the ground using a plastic cup placed near the pegging zone also traps moving bugs. Adults are also attracted to light.

Another insect that looks like burrower bug but is actually a beneficial insect—it is the *big-eyed bug*. This insect is slightly smaller than burrower bugs but may be seen hurrying away from peanut plants when disturbed. Catch a specimen and look for the large eyes that protrude out of the head. Email or text a high resolution image to a Regional Extension Agent, or send a sample to your county Extension office for correct insect identification. To read more about peanut soil pests, download ANR-1351 or click https://store.aces.edu/ItemDetail.aspx?ProductID=13653&SeriesCode=&CategoryID=&Keyword=peanut.

For insect control recommendations, refer to the peanut IPM guide ANR-0360 (https://store.aces.edu/ItemDetail.aspx?ProductID=17105&SeriesCode=&CategoryID=&Keyword=peanut) or contact a Regional Extension Agent immediately.

Article by Ayanava Majumdar and Brandon Dillard

VEGETABLE INSECTICIDE TRAINING MODULE NOW AVAILABLE FOR GARDENERS AND PRODUCERS

The Alabama Vegetable IPM website now has a new training module on alternative insecticides. This training module will have three short videos on botanical insecticides, microbial insecticides, and correct application timing of biological insecticides. Right now the botanical insecticide video is available along with links to new insecticide publications. Other videos will be completed in July and made available to everyone. For details, visit www.aces.edu/go/87 and click on the “IPM Training Modules”. For direct access to the insecticide training module, visit https://sites.aces.edu/group/commhort/vegetable/SitePages/alternative_insecticides.aspx. Please share this information with family and friends!

Ayanava Majumdar, Ext. Entomologist
This update is suitable for vegetable producers and gardeners. This year, ACES Commercial Horticulture Vegetable IPM Team has established nearly four small plot and three large plots at commercial fields (Thomaston, Muscle Shoals, Dothan, and Fairhope) and experiment stations (Brewton, Cullman, and Clanton). These studies range from conventional to organic insecticides and mechanical pest control in vegetables. Preliminary data and results will be made available in this newsletter. Here are some vegetable insect pest updates based on field observations.

Moth counts in pheromone traps: We have found a steady but low numbers of **beet armyworm** moths (3-4 moths per trap per week). We have seen some early instar caterpillars in Fairhope vegetable plots. **Fall armyworms** moths were almost undetectable at this point in vegetables. Most of these armyworms will continue to rise as the season progress and the moth numbers are not a true indicator of caterpillar activity in the crop. **Corn earworm** moth activity was also low in vegetables but July and August are typically the peak insect activity months in Alabama. So stay alert of caterpillars because crop deterioration is rapid if the caterpillars or egg masses (armyworms) are not removed from plants or when plants are untreated with insecticides. **Squash vine borer** activity is high at many locations, up to 12 moths per trap per week. This is a soil pest and is a major insect problem in squash production on organic farms.

Scouting report: We have established several trap crop sites this year which serve not only to deter insect pests from feeding on the main crop but also serve as sites for early detection of pests. This year we are experimenting with sorghum and sunflower trap crops for leaffooted bug reduction in tomatoes. We have started to notice **stink bug** feeding on tomato fruits that were not adequately protected against the insect. **Leaffooted bugs** are still a rarity in vegetable fields but they usually arrive and become established in July and August causing major problems with fruit quality.

We also established two large research plots for studying trap crops for squash production to manage **cucumber beetles** and **squash bugs**. At Cullman, the hubbard trap crop (photo above) had 144 cucumber beetles in 97 plants. This calculates to ~1.5 cucumber beetles per plant. There is a mix of striped and spotted cucumber beetles in research plots. The trap crops are separated from the main crop (“Destiny” squash) by a 30 ft alley. The main crop had only three striped cucumber beetles—far less than the trap crop. We also found 7 squash bugs and one egg mass on the hubbard trap crop only. We may be treating the trap crop next week to destroy the increasing pest numbers and we will keep you informed about the progress with this new study. In the meantime, do not forget to scout for cucumber beetles and squash bugs in your field or garden. **Look under the plastic or near the drip line for hiding insects.** For control recommendations, refer to the vegetable production handbook or contact a Regional Extension Agent.

**Article by Ayanava Majumdar and Mike Reeves**
RECORDED IPM WEBINARS FOR HOME VIEWING

If you are interested in any of the topics that are listed below, then please type in the short URL (in blue) in your browser and click enter. This should take you to links to the recorded webinars that are worth viewing.

**Mosquito Prevention and Management**
[https://learn.extension.org/events/1095](https://learn.extension.org/events/1095)

**Don't Bug Me – Bed Bugs**
[https://learn.extension.org/events/846](https://learn.extension.org/events/846)

**Gardening for Pollinators**
[https://learn.extension.org/events/1077](https://learn.extension.org/events/1077)

**Protecting Gardens from Voles, Moles and More**
[https://connect.extension.iastate.edu/p7dhy6ekz79/](https://connect.extension.iastate.edu/p7dhy6ekz79/)

**Don't Bug Me Webinar: Fire Ant Home Remedies - What Works, What Doesn’t**
[https://learn.extension.org/events/826](https://learn.extension.org/events/826)

**Don't Bug Me Webinar: Ants! Ants! Ants!**
[https://learn.extension.org/events/836](https://learn.extension.org/events/836)

**Don't Bug Me Webinar: Protect Your Loved Ones From Fire Ants**
[https://learn.extension.org/events/844](https://learn.extension.org/events/844)

**Don't Bug Me Webinar: You Have Fire Ants Where?**
[https://learn.extension.org/events/841](https://learn.extension.org/events/841)
COTTON IPM UPDATES (IPM BLOG—JUNE 24, 2013)

After going weeks with light to moderate thrips pressure, damage was heavy on 4-7 leaf cotton in early June, especially in SW Alabama. Cotton was growing rapidly but thrips damage on true leaves was showing heavy damage from about the 4th to 7th true leaf. (Peanuts also were taking heavy damage during this same period.)

The thrips window is over now and we need to shift our focus to spider mites, aphids and the plant bug complex which includes tarnished plant bugs, fleahoppers and an occasional clouded plant bug.

Mites are primarily found in the TN Valley region of North Alabama and some treatments were being applied last week.

I noticed the first aphids on April planted cotton in central Alabama last Friday (June 21).

Plant bug numbers (adults) were down last week but nymphs are beginning to appear in our earliest planted cotton (mid-April). I would suggest using a sweep net to sample adults for the next 2-3 weeks, depending on the age of the cotton. As we approach first bloom I would switch to a drop cloth and concentrate on the presence of immature plant bugs.

Also, field men should now be looking at pinhead square set. Fields surveyed on June 21 were setting about 90% of the fruit. However, some plants had up to 30% square loss at that point. I believe you will find that migrating adult tarnished plant bugs will seek out the earliest planted and most lush cotton fields. My thought is that this cotton provides the best shade from the 95 degree temperatures, and is the best host for plant bugs. While looking for pinhead square set I noticed a number of white eggs, likely tobacco budworms. They would not be a concern now, but in the old days it would have created a real predicament. Spraying for plant bugs during a budworm moth flight would have been expensive and also put the grower on a treatment treadmill for the remainder of the season. Sometimes we forget how well we have it compared to the pre-Bollgard years. On another insect – a few stink bugs are already present in cotton. Normally we do not worry about stink bugs until about the third week of bloom, when we have bolls that are 10-12 days old. However, when stink bugs are present at bloom they will attack thumb sized bolls as soon as the bloom tag sheds. Any feeding to bolls this size will cause the boll to abort. Therefore, fieldmen need to be alert for adult stink bugs in early bloom cotton as they monitor for plant bugs with a sweepnet. Stink bugs will not damage squares or blooms but will seek out these first small bolls.

Since some of our corn was planted later than desired, stink bugs will likely remain with that host until the post roasting ear stage when the kernels become hard. At that time we may have a large movement into other crops such as cotton, soybeans and peanuts.

Ron Smith
Ext. Entomologist

WEED CONTROL WEBINARS

A blog post for Stephen Enloe’s webinar on soil applied herbicides for woody plant control in pastures:
https://sites.aces.edu/group/asf/blog/Lists/Posts/Post.aspx?ID=77

A blog post for Jennifer Johnson’s and Walt Prevatt’s webinar on stockpiling forages:
https://sites.aces.edu/group/asf/blog/Lists/Posts/Post.aspx?ID=76

On Pinterest:

August 7: http://pinterest.com/pin/479633429035615306/

PDF flyers for each webinar can be downloaded from: http://www.aces.edu/~flandkl/temp/
SOYBEAN RUST UPDATE

Soybean rust survived the winter on kudzu in multiple sites in Baldwin and Mobile counties this year. I observed that the disease is slowly increasing at these sites but does not appear to be spreading rapidly from these points of infection.

Because of the presence of active soybean rust sites in the Mobile Bay area, we suggest soybean growers in southwest Alabama be prepared to apply a fungicide later this growing season to avoid the severe yield losses observed last year in unsprayed fields in the area.

The mild winter also allowed the disease to survive the winter on kudzu in the cities of Dothan, Selma and Montgomery. However, disease inoculum levels are extremely low and do not pose an immediate risk to soybeans grown in the region.

At this time the disease has been found in a total of 25 counties across Alabama, Florida, Georgia and Louisiana.

We are currently monitoring 20 soybean rust sentinel plots, along with multiple kudzu patches, in over 35 counties across the state on a bi-weekly basis.

For more information please view the soybean rust website at sbr.ipmpipe.org. When viewing the national map, click on Alabama to read my commentary and suggested management practices for the state.

The Soybean Rust Hotline has also been updated and is available at 1-800-446-0388. This will be updated weekly or as new information regarding the disease becomes available.

Ed Sikora
Ext. Plant Pathologist

SARE NEWS RELEASE: BIENNIAL REPORT AVAILABLE ONLINE

Two brothers in Nebraska boosted corn yields by 10 percent in non-irrigated conditions with moisture-conserving cover crops, and have launched a cover-crop seed business.

Within a year, knowledge gained from a three-day renewable energy training benefited more than 2,600 farmers across the South.

Former tobacco farmers in Kentucky are now cashing in on sweet potatoes—grossing up to $7,000 per acre—thanks to new research and outreach from University of Kentucky Extension.

A Cornell University Extension specialist developed new techniques for onion growers that can increase their net profit by up to $258 per 100-foot bed.

A landmark curriculum that helps USDA professionals better serve American Indians is being widely adopted throughout the West, and garnered its writers USDA’s 2011 National Extension Diversity Award.

These are some of the stories to be found in SARE's 2011/2012 Report from the Field, a collection of 12 profiles that illustrates the impact SARE has had in recent years through its research and education grants, awarded to farmers and ranchers, researchers, educators and nonprofits across the country.

For downloading a free copy of the report, please visit http://www.sare.org/Learning-Center/SARE-Biennial-Reports/2011-2012-Report-from-the-Field?

ARCHIVE
AG TRAINING EVENTS

For further information about the events listed below, please check the subsequent pages for agenda. Also call the nearest Extension Office in your county and talk to an Extension Agent. Visit www.alabamacrops.com for more row crop field events around the state.

**Row Crops & Stored Grains Events**

July 8, 2013: Field Corn Variety Tour, Univ. of FL IFAS Extension, Jay, FL (details included)

July 11, 2013: Sunbelt Ag Expo Field Day, Moultrie, GA (http://sunbeltexpo.com)

July 18-20, 2013: Southern Peanut Growers Conference, Panama City, FL (http://www.southernpeanutfarmers.org/spgc.asp)


**Specialty Crops Events (Fruits/Vegetables)**

July 17, 2013: 3rd Annual Small Farm & Organic Vegetable Production Field Day, Muscle Shoals, AL (agenda & registration form included)

July 25, 2013: Vegetable Production Field Day, Montgomery, AL (agenda included)

July 30, 2013: Pollinator Conservation Planning Short Course, Cullman, AL (agenda included)

August 1, 2013: Pollinator Conservation Planning Short Course, Troy, AL (agenda included)

August 2-4, 2013: Florida Small Farms and Alternative Enterprises Conference, Kissimmee, FL (website included; for details visit http://conference.ifas.ufl.edu/smallfarms/agenda.html)

November 13-15, 2013: Mississippi Fruit and Vegetable Growers Conference, Choctaw, MS (details at http://www.msfruitandveg.com)

February 7 & 8, 2014: AFVGA Annual Conference at Auburn, AL (www.afvga.aces.edu)

Stay tuned for more Extension events around the state. These events are multifaceted and provide an excellent opportunity to interact with researchers and Extension personnel. Please contact the county Extension office immediately regarding crop meetings that may not be listed above.
REGIONAL VEGETABLE PRODUCTION MEETING IN MONTGOMERY

On July 25th there will be a vegetable production meeting at the Montgomery County Extension Office. The meeting will begin at 8:00 a.m. and will end around 12:00 noon. This meeting is hosted by the Montgomery County Extension Office but you do not have to be from Montgomery County to attend.

The topics to be discussed at this meeting include calculating fertilizer needed using a soil test report, high tunnel production, vegetable irrigation, fall crop production, insect monitoring using pheromone traps, insecticide update, and alternative pest control.

If you would like to attend this meeting please contact the Montgomery County Extension Office at 334-270-4133. There is a registration fee of $5.00 per person to attend the meeting.

The Montgomery County Extension office is located at the Eastmont Plaza Shopping Center on the Atlanta Highway. The address is 5340 Atlanta Highway, Montgomery, Alabama 36109. If you have any questions about this meeting contact the Montgomery County Extension Office at 334-270-4133 or Chip East at 256-846-0314.

Please mail this registration form and fees to the following address:
Montgomery County Extension Office
5340 Atlanta Highway
Montgomery, Al. 36109

Name___________________________________________________________________
Address_________________________________________________________________
Phone Number__________________________ e-mail ____________________________
How many attending_________ Amount enclosed ($5.00 per person)____________
FIELD CORN
Variety Tour

UF/IFAS WEST FLORIDA
RESEARCH AND EDUCATION CENTER
JULY 8, 2013 • 10-NOON

4253 Experiment Road
Highway 182
Jay, Florida 32565

For meal planning purposes, please call
Janis at the Jay County Office (675-3107) or
Libbie at the Escambia County office (475-5230)
if you plan on attending.

FEATURED VARIETIES
6640 VT3P   P1636YHR
6960 VT3P   P1690YHR
7087 VT3P   DKC68-05
8621 VT2P   DKC66-96
8410 VT3P   DKC67-88
D57VP51     N68B-3111
D56RR10     N79A-3111
P1319HR     N79T-3111
P1498YHR
Thanks to Our Industry Sponsors

3rd Annual Small Farm & Organic Vegetable Production Field Day

July 17, 2013
Location:

Many Thanks to Jack-O-Lantern Farms for hosting us!
REGISTRATION FORM FOR THIS EVENT IS PROVIDED ON THE EARLIER PAGE.
The Xerces Society for Invertebrate Conservation

POLLINATOR CONSERVATION PLANNING SHORT COURSES

Cullman Alabama
July 30, 2013
9:00 am to 4:00 pm CDT

Troy, Alabama
August 1, 2013
9:00 am to 4:00 pm CDT

The Xerces Society for Invertebrate Conservation, the USDA Southern Sustainable Agriculture Research and Education (SARE) program, and the USDA Natural Resources Conservation Service (NRCS) are pleased to announce two upcoming Pollinator Conservation Planning Short Courses in Alabama.

These full day trainings will provide you with the latest science-based approaches to reversing the trend of pollinator declines, and will equip you with the recipes necessary to protect and manage habitat for these vital insects.

SHORT COURSE DETAILS:

Cost:
Thanks to support from Southern SARE, we are able to offer 15 scholarships to each course on a first-come first-served basis. Registration is $45 per person thereafter.

Lunch is not included. Please plan on bringing a sack lunch with you to the course.

Continued on next page.
Cullman Short Course on July 30th

Troy Short Course on August 1st

*Continuing Education Credit Available*
Certified Crop Adviser (5 CEUs)
Society of American Foresters (5 CFE credits)
The Wildlife Society (5.5 contact hours)

Contact:
Ashley Minnerath
The Xerces Society for Invertebrate Conservation
shortcourses@xerces.org or (855) 232-6639 ext. 102.

ACKNOWLEDGMENTS
This Pollinator Conservation Planning Short Course is made possible with the support of the Southern Sustainable Agriculture Research and Education (SARE) program and the USDA Natural Resources Conservation Service (NRCS). Additional support for this training is provided by the following: Cinco, CS Fund, Disney Worldwide Conservation Fund, Endangered Species Chocolate, The Metabolic Studio, Turner Foundation, Whole Foods Market and its vendors, and Xerces Society members.

Special thank you to Alabama NRCS, Alabama Soil and Water Conservation Districts, Alabama Cooperative Extension, A&M University, Auburn University, Longleaf Alliance, Dorrill Farm, Red Root Farm, and Cullman Electric Cooperative for supporting these courses.

INTENDED AUDIENCE
The content of this course is tailored to the needs of NRCS, SWCD, Cooperative Extension, and state department of agriculture employees, as well as crop consultants, natural resource specialists, non-governmental conservation organization staff, and producers of bee-pollinated crops.

INSTRUCTOR
Nancy Lee Adamson PhD, Pollinator Conservation Specialist – East Region, The Xerces Society for Invertebrate Conservation

GUEST SPEAKERS
Carol Denhof, Understory Coordinator, Longleaf Alliance
Jeff Thurmond, Wildlife Biologist, Alabama NRCS
Gary Weil, Owner, Red Root Farm

ADDITIONAL TRAINING OPPORTUNITIES
The Xerces Society is offering similar Pollinator Conservation Planning Short Courses across the country. Visit our online pollinator conservation program page to view up-to-date short course information.

PHOTO CREDIT
Sweat bee on blanket flower by Nancy Lee Adamson
The purpose of the annual Florida Small Farms and Alternative Enterprises Conference is to provide farmers with up-to-date, research-based, in-depth educational information. The conference aims to facilitate solutions-based collaboration by encouraging networking and open dialog among members of Florida’s small farms community. Additionally, the conference is an excellent vehicle for increasing awareness of Florida’s small farms industry, which organizers accomplish by including participation from decision makers and supporting institutions, and partners from the public sector. Through concurrent educational sessions led by industry experts and noted researchers, the annual Florida Small Farms and Alternative Enterprises Conference provides opportunities for attendees to learn about groundbreaking research and access educational support about topics such as operating sustainable and profitable enterprises, integrating cost-effective methods to meet state regulations, and applying the latest research to real-world problems. Attendees also participate in workshops, hands-on demonstrations, and organized networking activities, enabling them to share their knowledge while interacting with peers from all over the state.

Who Should Attend:

- Small family farms
- Transitional farmers
- Beginning farmers
- Allied-industry representatives
- Educators and researchers
- Agricultural associations
- Policy-makers
- Foundations
- Anyone interested in becoming a part of, and strengthening, the small farm community in Florida.
Florida Small Farms and Alternative Enterprises

CONFERENCE August 2-4, 2013
Kissimmee, Florida

Informing and Inspiring Agricultural Innovators

http://www.conference.ifas.ufl.edu/smallfarms/index.html

Sessions include:
- Specialty Crops and Production
  (Blackberry, Tropical Root Crop, etc.)
- Organic and Sustainable Farming
  (Seed Production and Saving,
  Farmscaping for Beneficial Insects,
  Grafting Transplants, etc.)
- Greenhouse and Hydroponics
  (Hydroponic Trends, Renewable Energy, etc.)
- Livestock Systems (New Poultry Roles,
  Goat Operation, Grazing Resources, etc.)
- The Business of Farming
  (Marketing, Agribusiness Management, etc.)
- Technology for Innovation
  (Internet, Social Media, etc.)
- Tours (Livestock, Fruit and Vegetable)
- And Much More! (Beeskeeping, Permaculture,
  Irrigation Management, Aquaponics, etc.)

Additional Highlights:
- Friday evening trade show opening and reception
- Trade show packed with suppliers and resources
- Keynote address
- Innovative Farmer Awards
- Livestock arena with live animal exhibits
- Educational posters
- Saturday evening networking social
- Delicious locally-grown food

Register Today!
(Early bird registration ends July 12th)

Visit the website for details

http://www.conference.ifas.ufl.edu/smallfarms/index.html

Sponsored by

Hosted by

University of Florida
IFAS Extension
ABOUT IPM COMMUNICATOR (contd. from page 1)

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CALL FOR EXTENSION ARTICLES

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