

September 2016 – Events and Announcements

Dear Growers and Friends,

Please welcome our new Hawaii County Administrator, [Dr. Ted Feitshans](#), who will be located in Hilo at the Komohana Research and Extension Center. He officially begins his appointment on Sept. 1, 2016. Dr. Feitshans previously specialized in Ag-Economics-Ag and Environmental Law at North Carolina State University's Cooperative Extension Service.

Recently, a farmer brought to my attention the use of [Aqua-Reslin](#) by the Hawaii County Department of Health during the [dengue outbreak](#) of 2015-2016. This product, which is used to kill adult mosquitoes, contains permethrin and piperonyl butoxide (PBO). PBO is the product being scrutinized by inspectors in Japan. In the recent past, PBO was found in shipments of green coffee exported from Hawaii to Japan at rates that the Japanese government did not allow. As a result, shipments were rejected. Please contact your processor if you are using Aqua-Reslin to control mosquitoes on your property or other products containing PBO (e.g. Evergreen, pyronyl, etc.).

As you walk through your coffee farm, you may notice that coffee trees with crop have berries and leaves that are turning yellow. The berries may not be ripening properly and the leaves may also have a brown edge and tip and in severe cases, be abscising from the laterals. Over-bearing dieback is likely occurring and your plants are starving.

Fertilization recommendations are generally based on the nutrients removed during harvest and may include nutrients removed from pruning. In the case of coffee, a harvested crop of 10,000 pounds of cherry contains about 63 pounds of nitrogen (N), 13 pounds of phosphorus (P), and 68 pounds of potassium (K). The trees producing that much cherry contain 250 pounds of N, 60 pounds of P, and 200 pounds of K in their leaves, stems, and roots ([Bittenbender et al., 2008](#)). Other nutrients removed from the plant include phosphorous, calcium, magnesium, sulfur, boron, copper, iron, manganese and zinc, which are also important to plant health.

During development and ripening, coffee cherry require **more nitrogen and potassium** than any other nutrient, although the other nutrients are still vital to coffee tree health. Following general recommendations provided in the [Growing Coffee in Hawaii](#) booklet, will help to alleviate leaf yellowing and fall during the mature green to ripening berry stages. Providing enough nutrients, the correct amount and timing of each nutrient, will help to ensure that leaves remain on the tree to assist with [photosynthesis](#), which is important for overall plant health and fruit production.

Think of your tree as a checking account without overdraft protection. You have to deposit money (fertilizer) into the account (plant) before you can make withdrawals (fruit). If you write too many checks and overspend, you end up paying for additional fees and may have your account closed. In other words, if you don't provide enough fertilizer, your fruit yield and quality may be negatively affected and your plants could ultimately die. If your plants die, you will need to spend money to replace it. Make sure there's enough money in the bank before you start spending.

If your plants continue to decline with adequate fertilization, there may be another underlying problem. Please contact me for assistance.

I will be out of the office from Sept. 19-23. If you are in need of farm assistance while I am away, please contact Gina (ginab@hawaii.edu or 808-322-4892) and she will be able to contact another agent for their help.

-Andrea Kawabata
Associate Extension Agent

UH CTAHR Cooperative Extension Offices will be closed on Monday, September 5th, in observance of Labor Day.

Visit <http://hawaiicoffee.weebly.com/events-and-announcements.html> for additional information on the following events, announcements and more.

Hurricanes Madeline and Lester - Be Ready!

The National Weather Service and State officials are monitoring Hurricane Madeline and Hurricane Lester.

Please follow the National Weather Service (<http://www.prh.noaa.gov/cphc/>), other official agencies and local media for the latest weather news. Take precautions to minimize farm, home and property damage from the upcoming storm/hurricane systems and keep yourself, your pets and animals safe.

If your farm (including structures, crops or trees) sustains damages from high winds and/or rain, please contact your insurance agent, crop insurance agent, and/or your local USDA Farm Service Agency County Office (<http://tinyurl.com/HawaiiFSA>) immediately. **BEFORE YOU BEGIN CLEAN UP**, document all damages with (clear and focused) photos. Review your inventory and take note of anything damaged or missing.

Be Prepared - Resources

Sea Grant Homeowner's Handbook to Prepare for Nature Hazards: <http://seagrant.soest.hawaii.edu/homeowners-handbook-prepare-natural-hazards>

Hawaii Emergency Management Agency (<http://www.scd.hawaii.gov/>) recommends residents take the following actions to prepare for any possible hurricane or tropical cyclone:

- Talk with family members about what you plan to do if a hurricane or tropical storm threatens. Make an action plan that includes details such as whether or not your family plans to evacuate.
- Download the Ready Hawaii app from the iTunes or Google Play store. This app can aid in your emergency planning and will list shelters if they are opened for evacuation.
- **Walk your property and check for potential flood threats. If time and conditions permit, clear your gutters and other drainage systems.**
- **Identify small outdoor items that could be picked up by high winds. Make a plan to bring these items indoors if a hurricane/tropical storm watch or warning is issued.**
- Prepare your pets by checking or purchasing a carrier and other preparedness items. A pet carrier is necessary for your pet's safety if you plan to evacuate to a pet-friendly shelter. Don't forget seven days of food and water for your furry family members.
- Set aside an emergency supply of any needed medication and keep a copy of your prescriptions in case you run out of medication after a disaster.

USDA Farm Service Agency Hawaii & Pacific Basin - Program Reminders

2017 Noninsured Crop Disaster Assistance Program (NAP) - Application deadline is 9/1/2016 for nursery, floriculture, propagation stock non-ornamental nursery, aquaculture, Christmas trees, ginseng, turf grass sod, mushrooms and other crops.

Reimbursement of Transportation Cost Payment Program - Application deadline is 9/9/2016.

For more information, go to <http://tinyurl.com/h6fybj6>

New iPhone App - Landscape MD

Scot Nelson (TPSS), Arnold Hara (PEPS Emeritus), and Ruth Niino-Duponte (PEPS) have created a new app for iPhone that allows users to diagnose common diseases and insect pests affecting Hawai'i landscape plants. Landscape MD, which includes symptoms, IPM recommendations, pictures, and links to more information, is now available from the App Store

<http://tinyurl.com/h6vufzm>).

The app was also featured in Hawaii News Now's **Geek Beat**, where it's already proven to be very helpful—it allowed Burt Lum to diagnose sooty mold caused by aphids' honeydew on his gardenias, and explained how to solve the problem. Got a garden problem? **Get Landscape MD** today—it's useful, and it's free!

From CTAHR Notes - Issue 269 and 273

Hawaii's International AgriTourism Symposium

Saturday, October 15, 2016

8:30 am - 4:30 pm

University of Hawaii, Hilo

College of Hawaiian Language: Ka Haka 'Ulu O Ke'elikolani

200 West Kawili Street

Hilo HI 96720

For more information on the event and speakers, view the flyer at <http://tinyurl.com/hzmy737> or register at hiagtourism.org

USDA Farm Service Agency Hawaii & Pacific Basin Newsletter August 2016

For the newsletter, go to <http://tinyurl.com/hbm8nga>. This issue includes the following articles:

- September 9th Deadline to Apply for Reimbursement of Transportation Cost Payment Program
- Youth Loans - Supporting Our Youth Now
- Emergency Loans Still Available in Multiple Counties
- Disaster Assistance for Ranchers
- Emergency Assistance for Livestock, Honeybee, and Farm-Raised Fish
- Guaranteed Conservation Loans
- Dates to Remember

Coffee Moisture Meter Calibration Workshop - Kona

Wednesday, September 7, 2016

5:00 pm – 6:00 pm

Kona Cooperative Extension Service Conference Room

79-7381 Mamalahoa Highway

Kealahou, HI 96750

This class is full. If you would like to be placed on a waiting list, please contact Gina at 808-322-4892 or at ginab@hawaii.edu.

Workshop: The Plant and Soil Doctor is In! - Hilo

September 15, 2016

9:30 am - 12:00 pm

Komohana Research & Extension Center - Conference Room D202

875 Komohana Street

Hilo, HI 96720

A workshop on soil health, and soil and plant tissue sampling for nutrients and pests. For more information or to register, go to <http://tinyurl.com/PlantsSoil>. Questions, contact Marisol at marisolq@hawaii.edu.

Coffee & Cocoa International - Newsletter - Issue 36

For the newsletter, go to <http://eepurl.com/cbFr-X>. This issue includes the following topics:

1. SCAA Votes 'Yes' for Unification
 2. Mexican Replanting Programme Aims to Combat Effects of Leaf Rust
 3. GMO Labelling Becomes Law
 4. Coffee Consumption Could Help Reduce Risk of Gastric Cancer
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USDA NASS - Pacific Region Farm News

The USDA National Agricultural Statistics Service (NASS), Pacific Regional Office released the crop production forecast for August. To view the report, go to <http://tinyurl.com/zvau3rk>.

CTAHR - Hanai'Ai - SOAP Newsletter

Hanai'Ai - A newsletter from the Sustainable and Organic Agriculture Program (SOAP) at the College of Tropical Agriculture and Human Resources. To view this summer's newsletter, go to <http://conta.cc/29p2m45>. In this issue:

- Sustainable & Organic Research & Outreach News - News from Hawaii's researchers & extension professionals
 - Publications for sustainable and organic production systems
 - CRATE: Center for Rural Agricultural Training and Entrepreneurship
 - Citizen Science
 - Agribusiness Incubator
 - Organic Update
 - New Faces - CTAHR Hires Five New Junior Agents in 2016
 - SARE bulletins and brochures on innovative sustainable agriculture practices available on-line
 - Western Region Sustainable Agriculture and Education Program
 - Featured Farmer
 - Hot Tips from Kahanu Aina
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Western Apicultural Society Conference & Tradeshow - Oahu

October 13-15, 2016
Ala Moana Hotel, Waikiki Beach
Honolulu, Hawaii

The theme of this year's conference, New Insights into Old Questions, focuses on looking, with a fresh pair of eyes, at the health problems that affect honey bees and the pollinator community as a whole. We plan to have 4 main topic sessions including: Bee Health, Honeybee Queen Health, Hawaiian Bees, and an Education – Outreach Workshops Day: Bees and Us.

For more information, visit <http://www.westernapiculturalsociety.org>.

USDA FSA - Coming to Visit Us - Please Make an Appointment

Aloha Everyone!

If you're coming down to visit us to sign up for a program, please make an appointment with one of our staff members. You are welcome to walk in, but waiting time has been 1-2 hours – not a good experience. Phone 933-8381. Extension 1.

Thank you for your help!

Lester Ueda

County Executive Director

USDA, Farm Service Agency

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HCA - August Newsletter: Conference Presentations, Marketing Opportunities, Events & More

For the Hawaii Coffee Association August Newsletter, go to http://eepurl.com/b_csDH. This month's issue:

- HCA Annual Conference Review
- President's Message
- List of 2016 - 2017 HCA Board of Directors
- Introduction to Juli Burden
- Conference Presentations available online
- List of HCA Conference 2016 Sponsors
- Coffee Quality Workshop with Sunalini Menon – September 27th
- Marketing Opportunity: Meet New Clients
- 2016 Hawaii Coffee Association Meeting Schedule

New FBB Publication: Predation by flat bark beetles (Coleoptera: Silvanidae and Laemophloeidae) on coffee berry borer (Coleoptera: Curculionidae) in Hawaii coffee

Follett et al.

To view the publication, go to <http://tinyurl.com/jbbbef2>

Highlights from the article:

- The flat bark beetles *Leptophloeus* sp. and *Cathartus quadricollis* feed on coffee berry borer (CBB) in Hawaii coffee.
- Adult and larval predators can feed on all CBB life stages.
- *C. quadricollis* was not susceptible to infection by the biopesticide *Beauveria bassiana* used for CBB control in coffee.
- These predators can be reared easily and inexpensively for augmentative releases.

Article - Growing Produce - Tree Cover Product Created To Help Fight Citrus Scourges

Citrus Greening Disease is not yet here in Hawaii, although we have the vector. This disease is devastating the citrus industry in FL and affecting citrus in CA. See how some researchers are trying to help farmers defend their young trees from the vector, Asian Citrus Psyllid. HI has this vector, but not the disease it transmits. For the article, go to <http://tinyurl.com/hvm6zrz>.

CBB on Oahu Update

I followed up on a comment that was made during my presentation at the Hawaii Coffee Association conference. It was about additional areas CBB has been found on Oahu. HDOA lists the general locations of these other infested areas on Oahu below:

Kaneaki Heiau
Makaha Valley
Waianae Kai Forest Reserve
Residence in Wahiawa
HARC Kunia and Maunawili (Aug. 2016)

For more details on HDOA's CBB survey on Oahu, view the map at <http://tinyurl.com/zhreavm>. This map does not yet include the HARC sites.

- Andrea

Want to Know What UH CTAHR is Doing These Days?

Check out CTAHR News and find out who is doing what at CTAHR: <http://www.ctahr.hawaii.edu/site/News.aspx>