

February 2017 – Events and Announcements

Dear Growers and Friends,

As spring arrives, so do some of the more common pests on fruit and nut trees in Hawaii. Recently, I visited a citrus orchard where the trees were nearing the end of harvest. Many of the branches were flowering and producing new vegetative growth, also called flushes. Young, immature fruit were also observed on these trees. Pests commonly found affecting the leaves or shoots of citrus are scales, aphids, Asian citrus psyllid, whiteflies, citrus swallowtail caterpillar, citrus blackfly, and citrus leafminer. Aphids and scales can be found on flowers and fruit, respectively, in high populations. In Hawaii, these pests affect plant health by:

- **Sucking plant sap and reducing plant vigor** - scales, aphids, Asian citrus psyllid, whiteflies, citrus blackfly
- **Exuding honeydew which increases the presence of sooty mold and reduces photosynthesis** - scales, aphids, mealybugs, whiteflies, citrus blackfly
- **Reducing leaf surface area and photosynthesis** - citrus swallowtail caterpillar
- **Reducing photosynthetic abilities of the plant** - citrus leafminer
- **Potentially vectoring pathogens and viruses (such as CTV, citrus tristeza virus) from one plant to another** – aphids (vectors CTV), Asian citrus psyllid (vectors citrus greening disease or Huanglongbing – not known to occur in Hawaii)



Mites and thrips can be found damaging young fruit and new growth. Citrus fruit are most susceptible to these pests shortly after petal-fall, when the petals fall from the flower and a tiny fruit appears. As the fruit matures and increase in size, these damages, which have already been caused by the pest, become more evident. Growers may notice scar lines or patches, stippling, and/or a dulling, silvering, or bronzing discoloration of the rind. New growth and leaves may also look stunted or curled.

If you observe any of these symptoms on your citrus trees or observe problems on other horticultural crops, consider submitting samples to the UH Agricultural Diagnostic Service Center by bringing your samples to your nearest Cooperative Extension Service Office. If you are home gardener, the UH Master Gardener Program is also available and may be able to provide in-person assistance during their office hours.

Visit the link below to learn more about growing citrus in Hawaii. http://www.ctahr.hawaii.edu/oc/freepubs/pdf/F_N-14.pdf

Coffee Journal at the Kona Research Station:

99.8% of our coffee flowers did not develop into berries from the early Dec. rains. However, when I walked the field yesterday (1/31) afternoon, I saw that our station's coffee trees were starting to flower again. As I look back on my calendar, I see that it must have been from the light rains we had in Kainaliu on Jan. 18 and then again on Jan. 25th. It's not a big, spectacular bloom, but a bloom that is likely part of my main crop. I've noted the recent flowering on my calendar as well as reminders (30, 60 and 90 days from yesterday) to begin monitoring CBB activity in the field using the 30 trees sampling method. Also, I will be scheduling an early season strip pick of the 0.2% fruit from the early flowering and any remaining raisins. I will need to do the early season strip pick when my main crop is less than 120 days old (age from bloom) and before CBB can exit these berries/raisins and damage the beans of my main crop.

How are your coffee trees doing? I'd love to hear from you about your current coffee activities.

New CTAHR Publications:

Evaluation of pot size for greenhouse production of 'Misty' Southern highbush blueberry in Volcano, Hawaii
Reflective Guide to Growing Olives for Oil Production in Hawaii

-Andrea

UH CTAHR Cooperative Extension Offices will be closed on the following day:

Monday, February 20th, in observance of Presidents' Day

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

Big Island CBB Workshops - February

KONA – CBB Update Workshop

Friday, February 10, 2017
10:00 am – 12:00 pm
Kona Research and Extension Center
79-7381 Mamalahoa Highway
Kealahou, HI 96750

KEA'AU – CBB Update Workshop

Thursday, February 16, 2017
5:30 pm - 7:30 pm
Kea'au Community Center
16-186 Pili Mua Street
Kea'au, HI 96749

KONA – CBB 101 Workshop

Thursday, February 23, 2017
5:30 pm - 7:30 pm
Kona Research and Extension Center
79-7381 Mamalahoa Highway
Kealahou, HI 96750

KAU – CBB Update Workshop

Tuesday, February 7, 2017
6:00 pm – 8:00 pm
Pahala Community Center
96-1149 Kamani Street
Pāhala, HI 96777

CBB 101 Workshop – This class will cover the basics of CBB biology and ecology, as well as current CBB Integrated Pest Management (IPM) techniques used by coffee farmers in Hawaii. It will include presentations from:

- Andrea Kawabata - CTAHR – CBB basics and IPM recommendations
- Suzanne Shriner - SHAC Beauveria Subsidy Program
- Gwen Hicks - HDOA Beauveria Subsidy Program

CBB Update Workshop - CBB Update workshops are geared toward farmers who have already attended a basic CBB IPM or 101 class, but would like to learn about CBB research updates in Hawaii and the recent changes made to the newest 2016 CBB IPM document. It will include presentations from:

- Andrea Kawabata - CTAHR - Changes to the IPM
- Luis Aristizabal - SHAC – On-farm CBB Research on the Big Island
- Andrea and Rob Curtiss (HDOA) - Updates on CTAHR and Kona Station's Research
- Robbie Hollingsworth - USDA PBARC - PBARC Research Update
- Suzanne Shriner - SHAC Beauveria Subsidy Program
- Gwen Hicks - HDOA Beauveria Subsidy Program

Registration is required. RSVP online at <http://hawaiicoffee.weebly.com/2017-cbb-workshops.html> or by contacting Gina at 808-322-4892 at least 2 days before the workshop.

KCFA - Coffee Pruning Workshop - Kona

Saturday, February 11, 2017
Registration 8:30 am
Class starts at 9:00 am
Lehu'ula Farms
79-7350 Mamalahoa Hwy
Kealahou, HI 96750

Coffee Pruning Workshop: Registration opens at 8:30 and the class starts promptly at 9 am at Lehu'ula farm, 79-7350 Mamalahoa Hwy in Kainaliu. Topics covered are pruning techniques, agronomic practices for CBB reduction as well as soil and leaf sampling for tree health.

Free to KCFA members, \$10 to non-members (which can be applied to the \$25 association dues)

Job Announcement - CTAHR – Junior Extension Agent for Coffee Berry Borer - Kona

Position #: 0085500T
Position Title: Junior Extension Agent
Closing date: February 14, 2017

This full time position is located in Kona and will involve extension and outreach on Coffee Berry Borer. To view the job announcement, go to <http://bit.ly/2jS3OIG>.

Questions, please contact Andrea Kawabata at 808-322-4892 or andreak@hawaii.edu.

HDOA - Public Hearings on Coffee Standards - Statewide

Hawaii Department of Agriculture will hold public hearings on the extension of the standards for three more years. The temporary rules were set to expire June 30.

Tuesday, February 21, 2017 (OAHU) 9:00 am Quality Assurance Division Conference Room 1851 Auiki Street Honolulu, HI 96819	Friday, March 3, 2017 (KAUAI) 9:00 am Department of Agriculture Conference Room 4398A Pua Loke Street Lihue, HI 96766
Wednesday, February 22, 2017 (MAUI) 9:00 am Department of Agriculture Conference Room 635 Mua Street Community Meeting Hale Building G Kahului, HI 96732	Tuesday, March 7, 2017 (KONA) 9:00 am West Hawaii Civic Center 74-5044 Ane Keohokalole Hwy. Kailua-Kona, HI 96740
Thursday, February 23, 2017 (KA'U) 5:00 pm Pahala Park and Community Center 96-1131 Kamani Street Pahala, HI 96777	

To read the Public Notice, go to <http://bit.ly/2kRiCRx>. You can also read the West Hawaii Today article at <http://bit.ly/2jRNLXC>, for more information.

CTAHR - Junior/Assistant Extension Agent for Sustainable Agriculture - Candidates Seminars - Oahu

Three candidates for the CTAHR Oahu Junior/Assistant Extension Agent for Sustainable Agriculture position will present on the topic, "Developing an extension outreach program in sustainable agriculture in support of the edible crop industries on Oahu."

Monday, February 6, 2017 – Joshua Silva
Tuesday, February 14, 2017 – Kylie Wong
Friday, February 17, 2017 - Frederick Reppun

9:00 am - 10:00 am – Seminar
11:00 am – 12:00 pm – Faculty Meeting
University of Hawaii at Manoa, St. John 106, 3190 Maile Way, Honolulu, HI 96822

Here you can meet the candidates, ask questions, and learn about their intended programs. For more details, please see the flyer at <http://bit.ly/2kiuddh>. Connections via Zoom (online) will be made available at the weebly site.

CTAHR - Junior/Assistant Extension Agent for Sustainable Agriculture and Food Safety - Candidates Seminars - Maui

Three candidates CTAHR Maui Junior/Assistant Extension Agent - Sustainable Agriculture and Food Safety position will present on the topic, "An Extension Program Vision for Sustainable Agriculture and Food Safety in Maui County." Here you can learn about the candidates intended programs and ask questions. For more details, please see the flyer at <http://bit.ly/2kTVgvE>.

Tuesday, February 7, 2017 - Chandrappa Gangaiah
Monday, February 13, 2017 - Kylie Wong
Monday, February 27, 2017 - Marcia Croft

All Seminars will be held in the Community Services Building on the campus of UH Maui College at 9:00 am – 10:00 pm on each day. Also available to view by Zoom at Meeting ID: 808 352 4414 <https://zoom.us/j/8083524414>

HDOA CBB Pesticide Subsidy Program - Update

Have you received a reimbursement check? Applications are accepted through 6/30/17 to receive a subsidy on Botanigard® and Mycotrol® purchases made 7/1/15 through 6/30/16. Gwen *may* be able to verify purchases if you are missing your original receipts. Let her help you receive some money back! Call Gwen at 323-7578 or email hdoa.cbb@hawaii.gov.

Gwen Hicks
Hawaii Department of Agriculture
CBB Subsidy Program Coordinator
Phone: [808-323-7578](tel:808-323-7578)

Mailing address: P.O. Box 226
Captain Cook, HI 96704
Physical address:
82-6130 Mamalahoa Hwy, Room # 4, Captain Cook, HI 96704

2017 Cacao Survey

Our Hawaii cacao to chocolate industry is growing. The University of Hawaii CTAHR needs your help to estimate the size of Hawaii's Cacao industry and to understand the issues. This information is important to document cacao acreage and growth to the legislature, state and federal agencies like the DOA and USDA. Below is a link to the 2017 Cacao Survey covering the cacao harvest from January to December 2016 and plans for future plantings. Since 2010 this survey

annually reports the growth of our cacao to chocolate industry.

<https://www.surveymonkey.com/r/XYHBZ53>

Please note, information about individual farms is held confidentially. The summary of the survey will be sent to everyone on the email list, the DOA and other agencies. It will be presented at the Hawaii Chocolate and Cacao Assn annual meeting in March 11-12, 2017 (www.hawaiiichocolate.org). A copy will be sent to others on request by email.

Questions or request of survey summary, please contact H.C. 'Skip' Bittenbender at HCBitt@Hawaii.edu.

Article - C&I - World Coffee Research Expands Multi-Location Variety Trials To 23 Countries

Four new countries have committed to participate in World Coffee Research's (WCR's) International Multi-location Variety Trial (IMLVT), which WCR describes as the largest, collaborative, global coffee research platform and variety exchange in coffee industry history. One of the newest WCR's partners for the **new trial includes the Hawaii Agriculture Research Center (HARC)**. To view the article, go to <http://bit.ly/2kNhJKS>.

Article - ScienceDaily - Arabica coffee genome sequenced

The sequencing of the genome of *Coffea arabica*, the species responsible for more than 70 percent of global coffee production, has now been announced by researchers. To view the article, go to <http://bit.ly/2iUkbO1>.

USDA Farm Service Agency Hawaii & Pacific Basin - Annual Policy Reminders

For the bulletin, go to <http://bit.ly/2kdN5dA>. This issue includes the following:

- Administrative Policy Reminders
- Farm Program Policy Reminders
- Farm Loan Policy Reminders

CTAHR Notes

Go to <http://bit.ly/2kotoSh> to check out CTAHR Notes: Issue 290 December 21, 2016.

Go to <http://bit.ly/2jzUPoi>, to check out CTAHR Notes: Issue 293, January 19, 2017.

HDOA News Release

Here is a news release from the Hawaii Department of Agriculture on a coffee pest found on Maui:
<http://hdoa.hawaii.gov/blog/main/nr17-1-cbbonmaui/>

Here is a link to a news release on the Hawaii Interagency Biosecurity Plan:
<http://hdoa.hawaii.gov/blog/main/nr17-02biosecurityplan/>

Here is a link to a news release about a snake that was turned in over the weekend:
<http://hdoa.hawaii.gov/blog/main/nr17-03snaketurndin/>

HMNA Newsletter - January

To view the Hawaii Macadamia Nut Association January Newsletter, go to <http://eepurl.com/cwOAZX>. This issue includes:

- 2016 Crop Update
- Grafting Best Practices
- (an)Thesis on Flowering

If you would like to receive HMNA online newsletter, sign up at <http://www.hawaiimacnut.org/newsletter.html>. They periodically provide updates on the Hawaii industry, and supply helpful information to growers and processors of macadamia nuts.

CTAHR - Beginning Farmers Quarterly Newsletter - New Archives

The CTAHR Sustainable and Organic Agriculture Program (SOAP) Website has a new cache for the Molokai Native Hawaiian Beginning Farmers Newsletters, from January 2013 to December 2016. Check it out! It's archived at:

<https://cms.ctahr.hawaii.edu/soap/Resources/MolokaiBeginningFarmersNewsletter.aspx>

CTAHR - Hanai'Ai - SOAP Newsletter

To view the SOAP Newsletter, Volume 28: Dec 2016, Jan, Feb 2017, go to <http://bit.ly/2kXTSXY>.

In this issue:

- Research & Outreach News
 - Comparing Physical Barriers and Organic Pesticides for Controlling Cabbage Webworm on Daikon
 - Flat Head Cabbage Variety Trial
 - Cover Crops and Solarization for Nematode Control
 - 'Onipa'a Group Restores Taro Over Past Two Decades
- CRATE - DIY Screenhouse for Insect Management in the Tropics
- Publications, Agribusiness Update, Organic Update, Grants and Loans, FMI/FYI, WSARE
- Featured Farmer and Hot Tip: Christian Zuckerma, Kahumana Farm, Waianae, Oahu

USDA NASS - Pacific Region Farm News

Local Foods Sales Reach \$84.4 Million in Hawaii. For more information, view the news release from USDA National Agricultural Statistics Service (NASS), Pacific Regional Office at <http://bit.ly/2jrVGfB>.

P&A Coffee Newsletter - Confidential

To view the newsletter, go to <http://bit.ly/2kXiBeO>.

Topics that may be of interest in this issue:

- Green Coffee Imports Into Brazil Raise Fresh Debate
- Drought May Affect Coffee Market For Another Two Years
- Smaller Brazilian Coffee Exports In 2016?
- New Pruning Technique Attracts Growers