

## **August 2015 Events and Announcements**

### **Reminder for Coffee Growers: Continue to Spray for CBB During Harvest**

CBB populations will explode if you stop spraying during the harvest season. Continue to sample, monitor and spray for CBB throughout the harvest season and especially after picking, as CBB tends to be actively moving around the coffee trees and farm because of the shaking of trees and removal of cherry. Completely enclose picking bags and line them on the inside with a plastic trash bag, if possible, to reduce CBB escapes.

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#### **Contacting Me:**

Just a friendly reminder that if you need to get a hold of me, please call 808-322-4892. If I am not available, please leave a message with Gina or email me at andreak@hawaii.edu. I will call or email you back as soon as I am able to. I apologize for not being in the office to directly receive your calls as I have many meetings, on-going field projects, as well as have state-wide responsibilities in coffee and island-wide responsibilities for fruit and nut clientele that take me away from the office.

Thank you,  
Andrea Kawabata  
Kona Cooperative Extension Service  
Assistant Extension Agent for Coffee and Orchard Crops

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**UH CTAHR Cooperative Extension Offices will be closed on Friday, August 21 in observance of Statehood Day.**

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**There are new Events and Announcements for Oahu Extension and Maui County at the [hawaiicoffee.weebly.com](http://hawaiicoffee.weebly.com) site.**

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

- Proceedings of the 2015 CBB Summit
  - New CBB publication
  - EPA's Proposal to Mitigate Exposure to Bees from Acutely Toxic Pesticide Products - Send Your Comments
  - CTAHR's Sustainable and Organic Agriculture Program (SOAP) Newsletter
  - Hawaii Macadamia Nut Association - Mac Facts Newsletter - Fall 2015
  - USDA Farm Service Agency Hawaii & Pacific Basin Newsletter July 2015
  - Hawaii Macadamia Nuts, Final Season Estimates
  - The Hawaii Tropical Fruit Growers Association East Hawaii Chapter is Looking for a New President
  - Interesting article about *Pseudomonas fulva*, a bacteria in Coffee Berry Borer gut
  - 2015 Hawaii Coffee Association Conference Highlights
  - Brazil and the Important Impacts and Lessons Learned
  - Hawaii Coffee Association's 2015 State-wide Cupping Competition!!!
  - Kona Coffee Farmers Association's Annual Fundraiser Dinner
  - Grower group monthly meetings
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#### **Proceedings of the 2015 CBB Summit**

On May 14, 2015, thirty-three researchers, educators, government representatives, project investigators, and support personnel involved with coffee berry borer (CBB) research and education/outreach gathered at the United States Department of Agriculture-Agricultural Research Service Daniel K. Inouye Pacific Basin Agricultural Research Center (USDA-

ARS DKI PBARC) in Hilo, at the Kaua'i Cooperative Extension Service, and on the University of Hawai'i Mānoa campus to participate in the 2015 CBB Summit. This meeting was co-hosted by UH CTAHR coffee and orchard crop Extension agent Andrea Kawabata, UH CTAHR Extension economist Dr. Stuart Nakamoto, and HDOA entomologist Rob Curtiss. Unlike in previous years, when CBB Summit meetings were utilized to update the CBB integrated pest management (IPM) recommendations provided to industry, the goal of the 2015 CBB Summit was for participants to learn about ongoing CBB research projects and extension efforts and to provide networking opportunities. Fifteen speakers conducted PowerPoint presentations followed by question-and-answer sessions. The abstracts and presentations provided by the speakers are compiled into the following 2015 CBB Summit Proceedings.

The 2015 CBB Summit Proceedings can be downloaded at  
[http://www.ctahr.hawaii.edu/oc/freepubs/pdf/CBB Summit 2015 Proceedings.pdf](http://www.ctahr.hawaii.edu/oc/freepubs/pdf/CBB_Summit_2015_Proceedings.pdf)

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**New CBB Publication: A new and highly effective sampling plan using attractant-baited traps for the coffee berry borer (*Hypothenemus hampei*)**

Fernandes et.al

The reported study was performed in 27 coffee fields using berry damage-assessment techniques and capture of adult borers applying attractant-baited (methanol:ethanol 3:1 (v/v) with 1 % benzoic acid) traps made of PET-bottles (polyethylene terephthalate bottles). The relationship between trap capture and berry damage was significant allowing the use of the former to estimate coffee loss caused by the borer. The trap capture data from the coffee fields were adjusted to a negative binomial distribution suitable for establishing a single conventional sampling plan for all investigated fields. The required trap density varied from 14 to 355 traps/10 ha (25 ac), depending on the precision error selected. The sampling plan developed using spatial interpolation (kriging and inverse weighted-distance methods) indicated that using 22 traps/10 ha for sampling of the coffee berry borer, costing US\$ 303.24/10 ha and requiring 49.14 min/10 ha for the sampling procedure, was suitable and resulted in cheaper, faster, and more reliable estimates compared to present recommendations.

[http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/cbb\\_trapping.pdf](http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/cbb_trapping.pdf)

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**EPA's Proposal to Mitigate Exposure to Bees from Acutely Toxic Pesticide Products - Send Your Comments**

**UPDATE** - EPA has extended the deadline to comment on their "Proposal to Protect Bees from Acutely Toxic Pesticides." This is the second (and probably last) extension.

This issue may be very important to stakeholders concerned with crops that require insect pollination. Please note that the comment period for this issue is short. If you would like to send comments for me to submit, send them to me by **Friday, August 14**.

You and any stakeholders are welcome to submit comments directly to EPA (URL below and other instructions in the attached Federal Notice). **Comments must be received by EPA no later than August 28, 2015.** (This extension is for an additional 30 days). I would appreciate being notified if any comments are submitted directly to EPA or Regulations.gov.

Please be aware that, for the proposed label changes:

- While the proposed prohibitions are for "SITES (crops) WITH BEES ON-SITE FOR COMMERCIAL POLLINATION SERVICES," EPA intends that "contracts" will be interpreted broadly, including written and oral agreements.
- The "onset of flowering" and "completion of flowering" limitations refer to the target crop of the pesticide application (not other crops, cover crops, other vegetation, weeds, etc. within the area of application).
- There is no definition of "completion of flowering."

To further explain the details of the proposal, EPA held a webinar and Q&A on June 23. A PDF of the slides from the webinar and a recording of the webinar can be accessed by clicking on the links at [http://www.epa.gov/oppfead1/cb/csb\\_page/updates/2015/bees-webinar.html](http://www.epa.gov/oppfead1/cb/csb_page/updates/2015/bees-webinar.html)

The docket for this issue can be found at Regulations.gov: <http://www.regulations.gov/#!docketDetail;D=EPA-HQ-OPP-2014-0818> You may submit comments by clicking on the blue "Comment Now!" button on this page.

A summary of EPA's proposed action is available at: <http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OPP-2014-0818-0003>

The full Proposal is available at: <http://www.regulations.gov/#!documentDetail;D=EPA-HQ-OPP-2014-0818-0002>

A fact sheet about the proposal is available at: <http://www2.epa.gov/pollinator-protection/proposal-protect-bees-acutely-toxic-pesticides>

Questions? Contact Cathy Tarutani  
Extension Pesticide Programs  
Plant & Environmental Protection Sciences  
University of Hawaii  
voice: [808-956-2004](tel:808-956-2004)  
[cathy@hpirs.stjohn.hawaii.edu](mailto:cathy@hpirs.stjohn.hawaii.edu)

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#### **CTAHR's Sustainable and Organic Agriculture Program (SOAP) Newsletter**

The newest issue is available here:  
<http://www.ctahr.hawaii.edu/SustainAg/news/index.html>

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#### **Hawaii Macadamia Nut Association - Mac Facts Newsletter- Fall 2015**

For the HMNA Mac Facts and the President's Message, go to  
[http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/mac\\_facts\\_2015.pdf](http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/mac_facts_2015.pdf)

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#### **USDA Farm Service Agency Hawaii & Pacific Basin Newsletter July 2015**

For the newsletter, go to [http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/usda\\_newsletter\\_july\\_2015.pdf](http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/usda_newsletter_july_2015.pdf)

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#### **Hawaii Macadamia Nuts, Final Season Estimates**

Larger Crop and Favorable Prices Increase 2014-2015 Value

Hawaii 2014-2015 macadamia nut utilized production is estimated at 46.0 million pounds (net, wet-in-shell basis), up 12 percent from the previous season according to a survey conducted by the National Agricultural Statistics Service. A larger crop combined with favorable prices contributed to this season's higher crop value.

Both in crop acreage and harvested acreage remained unchanged from last crop year at 18,000 acres and 16,000 acres, respectively. About 1.3 million trees were estimated for in crop acreage. Yields averaged 2,875 pounds per acre (net, wet-in-shell basis) for the 2014-2015 season, 315 pounds more than the 2013-

2014 season. Average moisture content for the overall crop this season was 19.3 percent compared with 20.3 percent from last season.

Farm value for the 2014-2015 crop is estimated at \$40.0 million (net, wet-in-shell basis), up 12 percent from 2013-2014 season. The average farm price remained unchanged at 87.0 cents per pound. The last time prices were this high was in 1989-1990 at 89.0 cents per pound (net, wet-in-shell basis). The record high farm price was in 1988-1989 crop year at 90.0 cents per pound (net, wet-in-shell basis). See Table 3 on page 3 for the macadamia nut historical data series.

For a copy of this report, go to <http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/201507macadamia.pdf>

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### **The Hawaii Tropical Fruit Growers Association East Hawaii Chapter is Looking for a New President**

The time has come for the East Hawaii HTFG chapter to elect a new president.

Current president, Mr. Dave Longacre, promotes the volunteer position as "absolutely wonderful for the stunning number of incredible people you will meet, from scientists working on emergent diseases, to malihini just trying to grow their first tropical fruits." He hopes that the new president will be more inclined towards get-togethers and monthly meetings. He also hopes that the president will be energized to best reflect and cultivate the primary interests of our membership. One of the greatest aspects of the current world of East Hawaii tropical fruit growers is the sheer number of "backyard" growers now represented; not to suggest that "backyard" growers are any less important for sustainability than other growers. Dave will remain on board for a couple of more weeks, but welcomes hands-ups for this position asap!

A president is necessary to influence matters relevant to your fruit-growing needs. Please send emails and inquiries to Dave at [htfg.east@gmail.com](mailto:htfg.east@gmail.com).

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### **For an interesting article about *Pseudomonas fulva*, a bacteria in Coffee Berry Borer gut, visit:**

<http://www.economist.com/news/science-and-technology/21657765-novel-approach-pest-control-beetles-and-bugs?frsc=dg|d>

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### **2015 Hawaii Coffee Association Conference Highlights**

For highlights of the HCA conference, visit [http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/hca\\_highlights.pdf](http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/hca_highlights.pdf)

*Thank you all for your participation at the 2105 HCA Conference and thank you to the HCA and all event hosts for taking the time to put together such an educational and interactive conference. – Andrea*

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### **Brazil and the Important Impacts and Lessons Learned**

Impacts of the Brazil Educational Explorations on Hawaii Coffee Farmers for CBB Control:

1. Confirmation of the extreme importance of tree and ground sanitation and the removal of all coffee cherry and raisins between seasons.
2. Confirmation of the need for effective chemical control to kill CBB.
  - Brazil farms use Chloropyrifos and are testing Benevia.
  - Brazil farms do not use *Beauveria bassiana* for CBB control.
  - Important to control CBB when flying.
3. Confirmation of the importance of field monitoring to detect CBB infestations.
  - Researchers at EPAMIG use a 30 tree sampling system. A total of 60 berries, selected randomly at 2-3 levels of the tree are visually monitored for CBB infestation on 30 trees throughout plots between 2 and 20 hectares. This sampling method was taught to the team.
  - Sampling and monitoring begins 90 days after flowering in Brazil. If the coffee bean is <86% water, CBB will

- damage the bean.
  - Chemical control of CBB is triggered at 3% in Brazil.
4. Confirmation that there is currently no CBB resistant coffee tree.
  5. Repeated message from Brazilian coffee farms about the need to move towards mechanization.
    - Hawaii farmers, particularly with mechanized farms, were introduced to farm and processing equipment for field sanitation, harvesting, more effective and efficient spray coverage, labor reduction, and water and electricity savings.
    - There is a possibility that Mr. Fernando Augusto Vicentini, coffee processing and field equipment efficiency designer and owner of Vicentini Co., will be invited to Hawaii to introduce coffee farmers state-wide, to cost-saving designs for coffee farms and processing equipment and to potentially assist in the implementation of these designs.
  6. Hot and dry conditions are not conducive to CBB survivability.
  7. Adult CBB do not reinfest coffee parchment or green beans.
    - Initial cherry and bean damage is caused by female CBB; however, subsequent bean damage is caused by CBB larvae.
    - <12% parchment/bean moisture content is important to eliminate continued CBB damage to the bean.
  8. Importance of maintaining and improving coffee quality with CBB control.
  9. Importance of increasing yield per unit area and/or to increase revenue to offset costs incurred with CBB control and inflation.

Kimo Falconer, president of the Hawaii Coffee Growers Association provided a trip report during the Hawaii Coffee Association Conference in July. His report can be viewed at

[http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/2015\\_coffee\\_growers\\_report.pdf](http://hawaiicoffee.weebly.com/uploads/2/6/7/7/26772370/2015_coffee_growers_report.pdf)

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**Congratulations to ALL Winners of the Hawaii Coffee Association's 2015 State-wide Cupping Competition!!!**

**DISTRICT WINNERS OF THE CUPPING COMPETITION**

<http://hawaiicoffeeassoc.org/Resources/Cupping/2015/2015-HCA-District-Winners.pdf>

**TOP 10 COMMERCIAL SCORES**

<http://hawaiicoffeeassoc.org/Resources/Cupping/2015/2015-HCA-Commercial-Top10.pdf>

**TOP 10 CREATIVE SCORES**

<http://hawaiicoffeeassoc.org/Resources/Cupping/2015/2015-HCA-Creative-Top10.pdf>

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**Kona Coffee Farmers Association's Annual Fundraiser Dinner**

Thursday, August 13, 2015, 5:00-9:00 pm  
Daylight Mind Coffee Company  
Kailua-Kona, Hawaii

For more information and to view the dinner menu, go to <http://www.konacoffeefarmers.org/happenings/dinner-menu/>

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## **Grower Group Monthly Meetings**

### **Ka'u Coffee Growers Cooperative Monthly Meeting**

Tuesday, August 4, 2015 (first Tuesday of the month)  
6:00 PM – 8:00 PM  
Pahala Community Center  
96-1149 Kamani Street Pāhala, HI)

### **Kona Coffee Council Board Meeting**

Thursday, August 6, 2015 (first Thursday of the month)  
4:00 PM to 5:30 PM  
Kona Cooperative Extension Service  
(79-7381 Mamalahoa Hwy, Kealahou, HI)

### **Natural Farming Monthly Meeting**

Tuesday, August 11, 2015 (second Tuesday of the month)  
6:00 PM – 8:00 PM  
Komohana Research and Extension Center  
(875 Komohana Street, Hilo)

### **Hawaii Coffee Association Board Meeting**

Wednesday, August 12, 2015 (second Wednesday of the month)  
9:00 AM to 2:00 PM  
Kona Cooperative Extension Service

### **Hawaii Tropical Fruit Growers Monthly Meeting**

Monday, August 17, 2015 (third Monday of the month)  
7:00 PM – 9:00 PM  
81-6393 Mamalahoa Hwy, Kealahou, HI 96750

If headed south, turn right after the white house/building that is across the street from the thrift store. If headed north, turn left after the mock orange hedge and before the white house/building.

### **Hawaii Macadamia Nut Association Monthly Meeting (date change for Aug.)**

Tuesday, August 25, 2015 (usually the third Tuesday of the month)  
10:30 AM - 12:30 PM  
Wainaku Executive Center (Old C. Brewer building just past the airplane/singing bridge)  
(26-238 Hawaii Belt Rd, Hilo, HI)

### **Kona Coffee Farmers Association Board Meeting**

Tuesday, August 18, 2015 (third Tuesday of the month)  
3:00 PM to 5:00 PM  
Kona Cooperative Extension Service

### **Kona Young Farmers Monthly Meeting**

Wednesday, August 26, 2015 (last Wednesday of the month)  
7:00 PM – 9:00 PM  
Teshima's Restaurant (Honalo)  
(797251 Mamalahoa Hwy, Holualoa, HI)