Town Hall

2-3 pm, Feb. 15, 2024

Agenda

- Welcome
- Leadership Update
- Stories from the field
- Donor Feedback
- Strategic Focus
- ANR in the News
- New Hires
- Other Updates

Chat warmup Learning about each other:

What's your love language?



Leadership Update

Vision & News - (10-15 mins)









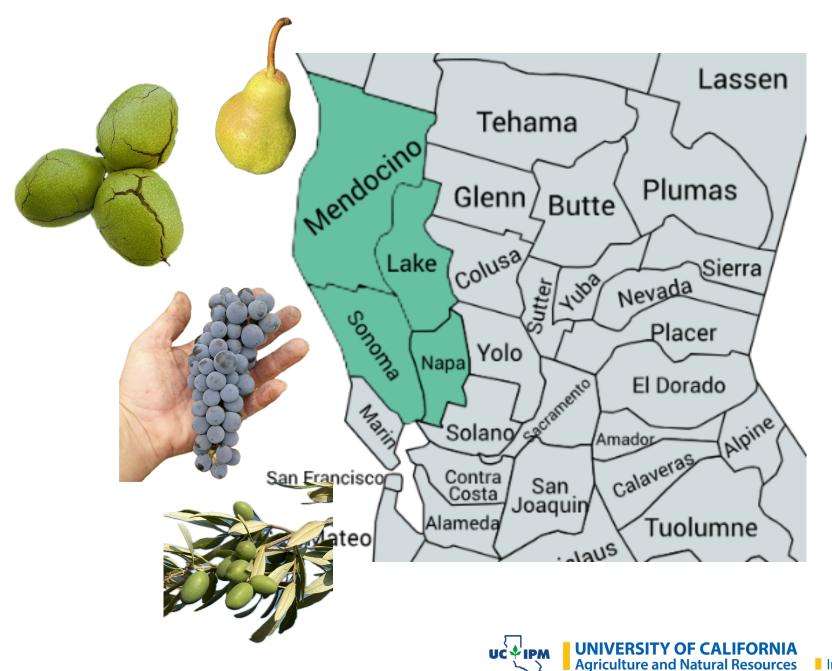


Story from the field

Cindy R. Kron¹, Clebson G. Gonçalves², Broc Zoller³, Axel David Gonzalez Murillo⁴, J. Kevin Moulton⁴, Karla Addesso⁵, William E. Klingeman⁴

¹University of California Agriculture and Natural Resources, Santa Rosa, CA; ²UCANR, Lakeport, CA; ³The Pear Doctor, Inc., Kelseyville, CA; ⁴University of Tennessee, Knoxville, TN; ⁵Tennessee State University, McMinnville, TN





August 2023







Flatheaded borer infested fruit in the orchard



Flatheaded borer infested fruit in the orchard





Flatheaded borer damage



No frass at entrance hole

Codling Moth damage



One or more holes plugged with frass



Entomologist: Flatheaded borer in fruit?!?!





Phylum: Arthropoda

Class: Insecta (Insects)

Order: Coleoptera (Beetles)

(400,000+ species)

Family: Buprestidae (Metallic wood-boring beetles)

(15,500+ species)(larvae called flatheaded borers)

Genus: *Chrysobothris* (CDFA Identified)

(690+ species – at least 69 species in California)

Species: ?



What are the possible scenarios

- This was a weird year, and we don't see this behavior again
 - But it was not just one confused female that laid her eggs in the wrong spot supporting that this is a behavior change
- A native agricultural species of pear or walnut that moved to pear fruit
- A native forest species that moved to pear fruit
- Invasive species without preferred host species present

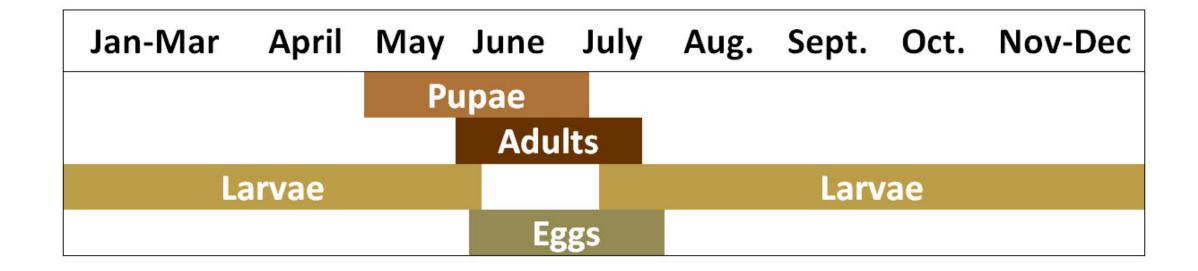
Rearing on artificial diet

- Spoke with Jhalendra Rijal, Area IPM Advisor working with flatheaded borer on walnut
- Received an artificial diet recipe from Karla Addesso, Associate Professor at Tennessee State University
- Sent sample to CDFA and received a Chrysobothris spp. ID
- Sent samples for DNA analysis to William Klingeman, Professor at University of Tennessee

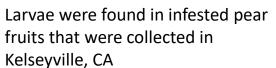
The process could take 5+ months to get an adult



Flatheaded Borer Life Cycle



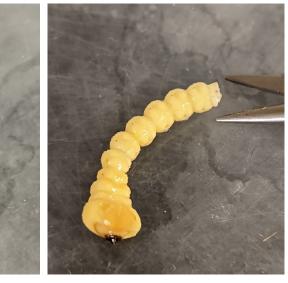




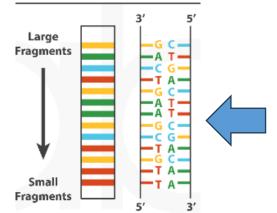


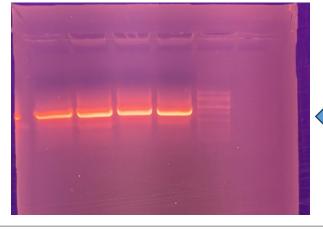
A subsample of larvae were preserved in molecular-grade, non-denatured ethanol



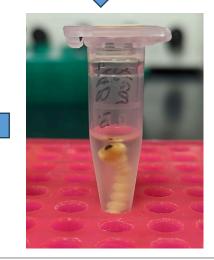


The last larval segment was removed & then a hole was made in the second thoracic segment to give access to soft tissue for better DNA extraction





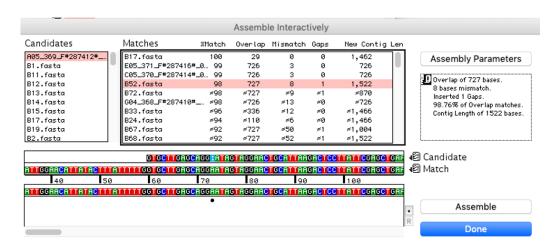




The whole larvae was exposed to lysis buffer & proteinase K for 4 hrs, and then placed in a heat block at ~52C°.

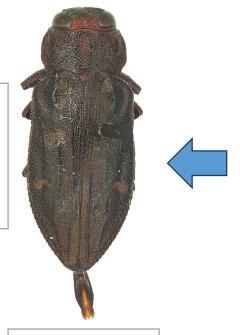
PCR was completed using a customized (730 bp) COX I primer that amplifies coding regions of Chrysobothris species. Finally, DNA samples were sent for DNA sanger sequencing

DNA was obtained using an extraction protocol designed by Dr. Kevin Moulton (University of Tennessee)



Analysis of returned Sanger Sequencing data were completed using Sequencher v.5.4

Based on database resources, we determined that DNA extracted from the larva from pear fruit is 98.75% similar to (homologous with) the COX I mitochondrial region for Chrysobothris mali (658 bp match)



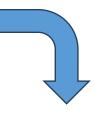
Chrysobothris mali 🖯

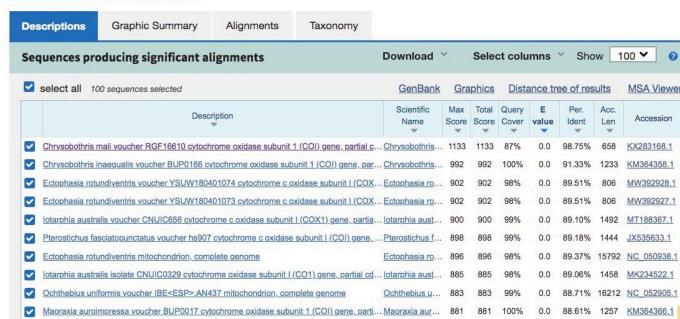


Distance tree of results MSA viewer ?



Annotated sequences were blasted against the National Institute of Health's NCBI GenBank database





Pear damage



Pear damage





Funding provided by the Pear Pest Management Research Fund

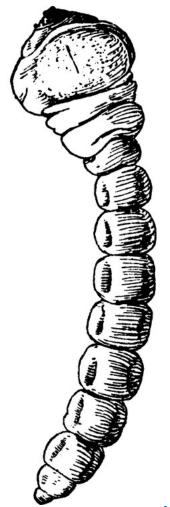




Unknown flatheaded borer pest found in Pear Fruit

Cindy R. Kron¹, Clebson G. Gonçalves², Broc Zoller³, Axel David Gonzalez Murillo⁴, J. Kevin Moulton⁴, Karla Addesso⁵, William E. Klingeman⁴

¹University of California Agriculture and Natural Resources, Santa Rosa, CA; ²UCANR, Lakeport, CA; ³The Pear Doctor, Inc., Kelseyville, CA; ⁴University of Tennessee, Knoxville, TN; ⁵Tennessee State University, McMinnville, TN



ckron@ucanr.edu





Strategic Focus



UC Environmental Stewards* & You

Opportunities to collaborate with our team, instructors, naturalists, and climate stewards.

*The program formerly known as UC California Naturalist

Presented by Greg Ira
Director, UC Environmental Stewards

Date: February 15, 2024



First: What's in a name, change?

Before:

UC California Naturalist (Program)

Courses:



Now:

UC Environmental Stewards (Program)





What is Environmental Stewardship?

- An Ethic: principles that address our relationship with our environment (e.g., respect, responsibility, reciprocity)
- An Action: a set of civic engagement strategies (e.g., conservation, restoration, education)
- A Goal: a desired result or future vision (e.g., resilience, equity, health & wellness)



Why Do We Need Stewardship?

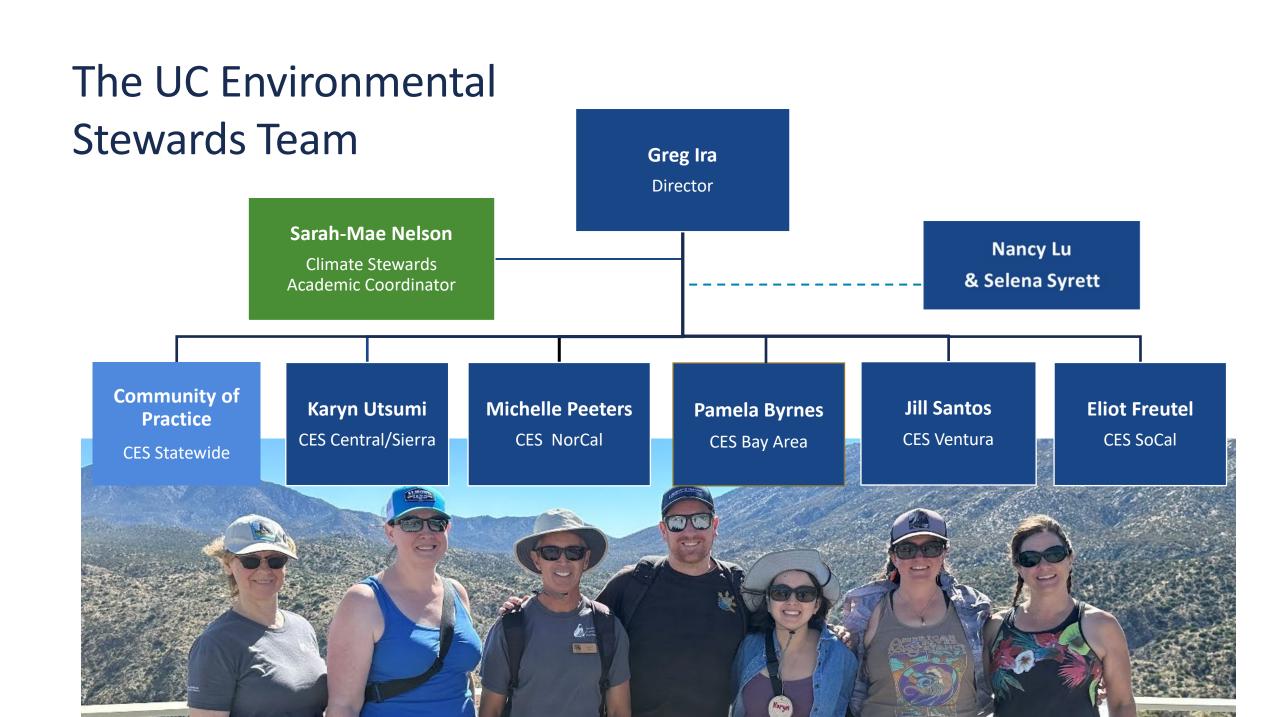
To address the pressing challenges that affect . . .

- Biodiversity
- Climate
- Health & Wellness
- Equity & Justice
- Sustainable Development









What We Do?

Working with local partner organizations, we combine community education with civic engagement to advance environmental stewardship through two courses:





Now, how can you get involved?

Here are some examples of how to create, collaborate and coordinate with UC Environmental Stewards.





Take a course for professional development

- Tracy Celio: Program Manager Southwest Regional **Food Business Center**
- Marcel Horowitz: Community Nutrition and Health Adviser, **Capitol Corridor**
- Mimi Enright: Program Manager UC Master Gardener, Sonoma
- Amber Butland: Climate Smart Agriculture Program, Fresno-Madera











Help us identify local partners to host a course

- Susie Kocher (Forestry) and NR advisor, Central Sierra) Helped launch several new CalNat courses in the Central Sierra
- Rita Clemons (Area County Director San Bernardino, Riverside & **Orange Counties) Initiated** connections with local Community College District













Present a CalNat or Climate Stewards session

- Sheila Barry (County) Director, Santà Clara) Presented and hosted field trips on rangeland management
- Tapan Pathak (Specialist in Climate Adaptation, UCM) Presented climate change impacts on Ag in CA
- Safeeq Khan (Cooperative Extension Specialist, Water UCM) Presented "Integrated Management of Forests and Groundwater to Mitigate Climate Whiplash"











Engage our volunteers in "citizen" science

 Beatrice Nobua-Behrmann (Urban Forestry Advisor, Orange & LA) Trained Naturalists on Invasive Shot Hole Borer monitoring



 Max Moritz (Specialist in Cooperative Extension, UCSB) Trained Naturalist on the protocols for monitoring Live Fuel Moisture

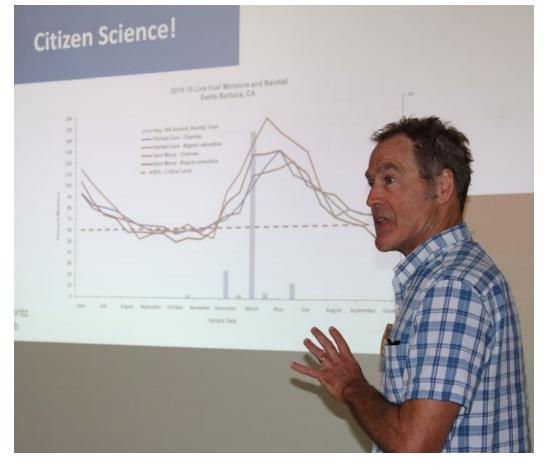




Conduct an advanced training session

- Sam Sandoval (Cooperative Extension Specialist, Water, UCD) Presented a session on water at our statewide conference and webinar series
- Max Moritz (Specialist in Cooperative Extension, UCSB) Conducted a citizen science session during an instructor training
- Igor Lacan (Interim County Director and Urban Forestry Advisor) Conducted an urban forestry session during an instructor training











Collaborate on grants & other projects

- Ricky Satomi (Forestry) Advisor, Sutter-Yuba) PI for the "Into the Forest Curriculum" mini grant project
- Austin Roughton (Forestry Youth Education Coordinator, Sutter-Yuba) **Project instructor**
- Katie Reidy (Post-Fire Academic Coordinator, Central Sierra) Project coinstructor











Serve on our Program Advisory Committee (PAC)

PAC Members (past & present):

- Keith Nathaniel
- Lynn Schmitt-McQuitty
- Fadzayi Mashiri
- Jeremy James
- Susie Kocher
- Claudia Diaz Carrasco
- Jim Downing
- Jairo Diaz
- Tapan Pathak
- Sam Sandoval Solis

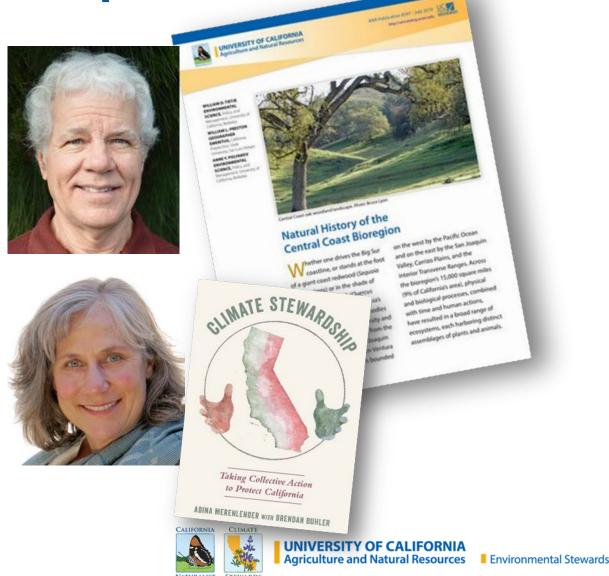






Author a program related publication

- Bill Tietje (Area Natural Resource Specialist UCCE San Luis Obispo) Author of the Natural History of the Central Coast Bioregion
- Adina Merenlender,
 (Professor of Cooperative
 Extension, UC Berkeley) Author
 of both course handbooks



Host a course at your REC or other location

- John Bailey, Director, Hopland REC
- Hannah Bird, Community Educator, Hopland REC
- Todd Merrifield, Business Officer, Hopland REC











Join us in Discovery, Service, & Stewardship

Together we can transform the way people see their environment, and their role in protecting it.











In the Media

- Maurice Pitesky talked about avian flu in hundreds of news outlets including <u>The Yeshiva World</u>, <u>US News and World Report</u>, <u>The Guardian</u>, <u>Los Angeles Times</u>, <u>The Hill</u>, <u>NPR</u> and <u>Fortune</u>.
- **Jennifer Smilowitz** was quoted in <u>Comstock</u> saying breast milk is an "awe-inspiring bio-fluid."
- Dan Macon was quoted in <u>LA Times</u> on packs of dogs killing livestock.
- Helen Dahlke was quoted in <u>Grist</u> about global groundwater depletion
- Brent Holtz was featured by <u>Australian Broadcasting Corporation</u> about orchard recycling
- **Edith de Guzman** told the <u>LA Times</u> our flood management isn't keeping up with the changing flood risk.
- Florent Trouillas warned Bakersfield <u>Californian</u> readers that almond plant disease thrives in wet weather



Louise Ferguson on table olive harvesting

New Hires: Welcome to UC ANR! January 16 – February 12, 2024

Bhandari UCCE TULARE COUNTY

Leonard Clark UCCE RIVERSIDE COUNTY
Austin Dalmasso UCCE SAN MATEO COUNTY

Elsa Jimenez IMM OFFICE OF HR

Gagandeep Kaur UCCE FRESNO MADERA MCP

Tadeo Kaweesi KEARNEY REC

Santosh

Karina Lundahl UCCE MARIN COUNTY

Sara Qadiree UCCE FRESNO MADERA MCP

Jorge Quinonez-Neri UCCE CAPITOL CORRIDOR MCP

Angel Rubalcava UCCE RIVERSIDE COUNTY

Harmanpreet Sharma UCCE FRESNO MADERA MCP

Alison Smith HOPLAND REC

Danny Vang UCCE SAN JOAQUIN COUNTY

Adam Yandel COMMUNITY NUTRITION AND HEALTH

Michelle Zavala UCCE RIVERSIDE COUNTY





Other Updates

- New Covid Policy Duwon Choi
- Theft prevention Matt Rapperlie
- Distinguish Service Award nominations
- My Favorite Extension Methods Webinar from The Sustainable Food Systems Strategic Initiative Panel
- Celebrate Black History Month with Black and Allied Employees (BAE)

COVID-19 Guidelines

UC ANR Risk & Safety



Infectious Period

Infectious Period, for the purpose of cases the Cal/OSHA COVID-19 Prevention Non-Emergency Standards, is now defined as:

- For COVID-19 cases with symptoms, it is a minimum of <u>24 hours</u> from the day of symptom onset:
 - COVID-19 cases may return if 24 hours have passed with no fever, without the use of fever-reducing medications, AND
 - Their symptoms are mild and improving.
- For COVID-19 cases with no symptoms, there is no infectious period for the purpose of isolation or exclusion. If symptoms develop, the criteria above will apply.

If you test **positive** for COVID-19:

- Report to your supervisor and the UC ANR COVID-19 Safety Team by completing the Screening Survey on https://ucanr.edu/covidscreening
- STAY HOME IF YOU HAVE COVID-19 SYMPTOMS
- You may return to working in-person when all of the following conditions are met:
 - 1. More than **24 hours** have passed since the onset of symptoms
 - 2. You have **NO FEVER** without the use of fever-reducing medication
 - 3. Symptoms are mild and improving
- If you have symptoms other than fever, you may coordinate with your supervisor to isolate until symptoms improve or until after Day 10.

 As a reminder, Day 0 is the onset of symptoms.
- Wear a well-fitting mask around others through Day 10 after the start of symptoms or testing positive. You may remove your mask sooner than 10 days if two sequential negative tests are at least one day apart.

If you had Close Contact with Someone with COVID-19:

- ANR EH&S will continuously reach out to the employees who were listed as Close Contact.
- Wear a well-fitting mask or respirator around others (at your worksite, indoors, in vehicles, in the field when working near others) for at least 10 Days after exposure.
- Monitor yourself for COVID-19 symptoms. If you develop new symptoms, testing is recommended.
- If you are at a higher risk of severe disease or if you've had contact with someone at higher risk of severe disease, testing is recommended.
- You may still voluntarily get tested after the exposure.

Exception for Close Contact: if you or the Close Contact were wearing a respirator or an N95 mask at the time of interaction.

The updated Quarantine, Isolation, and Return to Work Guidelines and Quarantine, Isolation, and Return to Work Summary Chart can be found on the ANR Environmental Health & Safety website



Avoiding Vehicle Break-Ins

Presented by: Matt Rapparlie Title: Risk Management Analyst

Date: February 15, 2024



Vehicle Break-Ins By The Numbers

- In 2022, 203,018 vehicle break-ins/thefts were reported across California.
- Total value of break-ins and thefts estimated at \$1.7 billion.
- Largest percentages by area were: 53.7% in Southern California, 17.9% in the Bay Area, 12.7% in the Central Valley
- The average car break-in takes less than 10 seconds.



What Coverage Is Available Through ANR

- Insurance overage is available through the University's Self Insurance program only for Vehicles and University Property.
- Insurance overage is <u>unfortunately not</u> available for personal property within the vehicle.
- Some insurance coverage may be available through our additional travel insurance policy for out of country travel.



Coverage Continued

- Property claims are subject to a \$1,000 deductible.
- The UC Travel Policy allows for deductible reimbursement up to \$500 when personal vehicles are being used for University business. Note: This is for physical vehicle damage, not lost contents within it.
- More information can be found at: https://ucanr.edu/sites/risk/Insurance/Automobile Liability Insurance/



What Can You Do?

- Ensure belongings are NEVER left within the vehicle, even for short periods of time.
- If transporting University Equipment, whenever possible, do not store the items within the vehicle overnight.
- Report all incidents and thefts to ANR Risk Management at: risk@ucanr.edu



Questions?

Other Updates

Distinguish Service Award nominations

Celebrate Black History Month with Black and Allied Employees (BAE)

Topic: Black Reconstruction in America

Wednesday, Feb. 28, 10 am-12 pm

https://ucanr.zoom.us/meeting/register/tJcpdOCtrjgtHdwfCZa5k7kjhinhGEjwP5I4#/registration

My Favorite Extension Methods Webinar from The Sustainable Food Systems Strategic Initiative Panel

Wednesday, March 27, 11 am-1 pm https://surveys.ucanr.edu/survey.cfm?surveynumber=42298



THANK YOU!

The next town hall will be Thursday, March 21, 2024

