

CAPCA ADVISER

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California Association of
Pest Control Advisers

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A Spring Summit Thank You

Thank you to everyone who attended, sponsored, and participated in the Spring Summit in April! With over 250 attendees, we had great member engagement from the Central Valley to San Diego! Turn to page 33 to see event photos and a complete list of sponsors.

For the third time, we piloted the new QR code scanning app for attendees. Our goal is to ditch the scantrons and easily swipe in and out of CE for credit. The QR code allows for more efficient reporting and a more streamlined approach toward tracking large scale CE events with multiple speakers.

The program developed for this event was built around our commitment to bringing quality education to the membership! For those who missed out in person, we will be making the recorded CE program available on-demand online at CAPCA.com/onlineCE.

Our members will be receiving the Label Update and Product Profile for free. We hope it will be of value to you, regardless of where you are in your career!



Ruthann Anderson, Editor
ruthann@capca.com

CAPCA EDITORIAL STAFF

Ruthann Anderson - Editor
Joyce Basan - Deputy Editor
Alexis Silveira - Communications Director
Crystelle Turlo - Chief Operations Director
Katelyn Greening - Events & Partnership Director
Ashley Hinson - Content Curator
Carrie Kihlthau - Technical Project Mgmt Specialist
Carol Aldous - Accounting Manager
Jennifer Hassouna - Office Manager
Briana Love - Office Assistant

Graphic Design - Rosemary N. Southward
southwardr@comcast.net

MISSION & PURPOSE

California Association of Pest Control Advisers (CAPCA) is a non-profit voluntary mutual benefit association that represents 75% of the 4,000 California EPA licensed pest control advisers. *CAPCA's purpose is to serve as the leader in the evolution of the pest management industry through the communication of reliable information.* CAPCA is dedicated to the professional development and enhancement of our members' education and stewardship which includes legislative, regulatory, continuing education and public outreach activities.

PUBLISHING INFORMATION

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TAKE CONTINUING EDUCATION WITH CONFIDENCE



The CE Hours Reported mark was created in an effort to ensure that CAPCA members are registering for continuing education that will be reported and appear on their official printout in a timely manner. Your CE hours and renewal are important to CAPCA; you will start to see this mark appear for sponsors who have committed to report your attendance to CECPM within seven business days of the meeting/online CE completion. We hope this allows you to register with the assurance that your Official Cert will include all your CE hours when you are ready to renew.

For questions, please contact the CAPCA office at support@capca.com.

Current Partners:

- Association of Applied IPM Ecologists
- Buttonwillow Warehouse
- California Farm Bureau Federation
- Fruit Growers Laboratory, Inc.
- Oro Agri
- UC IPM Webinars

CFBF: Webinar - 2023 Pest Pressures

May 25, 2023 | 9:30 - 10:30 AM

Anna Genasci - annag@stanfarmbureau.org

1.0 Total DPR Hours (1.0 Other)



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Holding up the bar of professionalism

By Paul W. Crout, CAPCA Chairman

Continuing Education (CE) has been the foundation of the Pest Control Adviser (PCA) license since its inception. The fact that PCAs are required to obtain 40 hours of CE every two years allows us to stay up to date on the latest information in the pest industry, provides a foundation for our professional standing, and is proof to others outside the industry that PCAs are the only recognized AND licensed Integrated Pest Management experts in the State.

One of the primary benefits of CAPCA Membership over the past 28+ years has been CE support (access to view current hours tracked and official certificate – the DPR accepted hours summary you attach to your renewal). To provide this support to members, CAPCA partnered with PAPA to create and run CECPM in 1993 to capture attendance hours directly from CE Sponsors (scantrons) and hours tracking for all licensees regardless of membership. (Please see page 9 for an explanation of the roles of CAPCA, CECPM, and DPR.)

Every member survey conducted over the last 25 years has highlighted the importance of CE hours tracking for our membership, as it is overwhelmingly the most acknowledged benefit by survey takers. Because of this, the CAPCA board has continued to prioritize efforts to make CE hours tracking and reporting as easy as possible.

As I mentioned earlier, CAPCA has had a historical focus on professionalism for CE and supporting CE hours reporting compliance for our membership and the industry. With that said, profound and serious changes are coming on January 1, 2024, to the process in which our licenses are renewed, how CE meeting hours are tracked and reported. The CAPCA Board and I are very aware of the changes coming, triggered by changes to the federal requirements from EPA under the Certification & Training Requirements for Pesticide Handlers. We are taking proactive steps with our CEO to ensure that your CE hours continue to be tracked, reported, and available for your timely license renewals.

With all the changes coming, CAPCA continues to prioritize quality education for its membership and ensure sponsors who you are taking education with have the tools to comply with changing standards. Things will look different next year, but you can be confident that CAPCA is holding up the bar of professionalism for the industry and will strive to ensure you continue to have the tools to successfully renew your license in a timely fashion. I hope you will continue to support CAPCA in this transition.

One of the key ways to know that your hours will be reported and tracked in a timely manner is the CE Hours Reported mark. CAPCA rolled out this mark during the pandemic to highlight and feature those CE sponsors who are committed to reporting in-person and online CE hours in a timely manner to CECPM. With the new reporting requirements, choosing meetings that feature this mark will ensure that the course sponsors are committed to reporting hours as required and your hours show up on your summary as quickly as possible. We hope you engage with this program by using your buying power to support CE Hours Reported sponsored education ensuring your CE certificate includes all your hours.

The CAPCA Staff and the Board will continue to keep our members updated as the regulations become more concrete, and we know exactly how these changes will affect us next year. ■



CE HOURS REPORTED

Understanding how your PCA License Continuing Education Requirements are Tracked and Reported

CURRENT FRAMEWORK FOR CE HOURS TRACKING

CAPCA

CAPCA provides members a printout of hours (Official Certificate) for license renewal.

CAPCA encourages and directs sponsors to report hours to CECPM. (use scantrons/report hours of attendees)

CECPM

CECPM provides and processes scantrons from Sponsors for easy hours tracking.

CECPM maintains a master database of all CE hours for PCAs, QAL, and QACs reported by Sponsors through scantrons or Excel upload.

CECPM provides a total hours summary to DPR to streamline renewals and audits. DPR uses this total hours report to outreach to licensees who have achieved their hours early to renew early.

CECPM is a third-party database.

DPR

DPR approves all DPR CE course hours for sponsors.

DPR renews license utilizing CECPM total hours report and Official Certificate for CAPCA members.



Look for the CE Hours Reported seal to ensure your hours are being reported and appear on your official certificate.

More than a Membership Association

By: Gary Silveria, CAPCA Advocacy Committee Co-Chair



As we sit and write this, we both fight the urge to tell you all the reasons why you should be a member from the apparent angles of advocacy and continuing education. While these should be enough, you can read about them from several different contributors in this magazine. The reason you should get involved which is rarely discussed and can't come from California Association of Pest Control Advisers (CAPCA) staff, is what being a CAPCA member can do for your career.

It is extremely easy to begin the cycle of starting your career, gaining clients, coworkers, and an immediate network, and thinking, "This is enough." While we agree that you can have a fulfilling career in this bubble, we are here also to burst it. The Pest Control Adviser (PCA) industry is far and wide. There are over 4,000 licensed PCAs in California. While our careers are what could connect us, we all have our own specialties, areas of expertise, and workflows that have the potential to keep us fragmented. CAPCA is the common denominator for over 75% of us across the state.

As an industry, CAPCA allows us to learn and network with PCAs across the state. Through conversation alone, we can broaden our thought processes, techniques, approaches to issues, and regulatory knowledge. The diversity and information this provides PCAs at any point in their career are invaluable to them and their employer.

We can both speak personally to the regulatory knowledge we gained during our tenure in the Association. As a young PCA, you take the test, pass, complete 40 hours of education as needed, and do your job. That should be enough. In fact, for any industry, that may be enough; however, the regulatory climate in California is brutal. Factors that impact our license change frequently, and most of the industry does not see it coming, no matter how often CAPCA staff attempts to inform the PCA community. Getting involved has given us an edge; we know what is coming down the pipeline well ahead of most of our colleagues. While hard work, determination, and skill have provided us with much success in our careers, this has been the cherry on top.

If we had one piece of advice for a young PCA just starting their career: join a CAPCA chapter, get involved at the

state level, and join a committee. It will provide invaluable opportunities to expand and grow beyond what you thought necessary.

We have been fortunate enough in our careers to work for companies that offer us the time and space to get involved. This is our message to employers across California who have PCAs under their direction. The knowledge you allow your PCAs to gather from their involvement will come back to your company and help inform how you do business and keep you ahead of the regulatory curve. Keep your employees engaged; CAPCA is a tool for you too.

If you read CAPCA Chairman Paul Crout's article at the beginning of this issue, you can see that there are huge changes coming our way. Our advocacy staff works tirelessly to get ahead of those changes and influence our regulators. While we have seen much success, we also know that sometimes there is not an opportunity to advocate or seek change because the decision has been made behind closed doors. It has never been more imperative to try and have a seat at the table.

In the next year, you will see a new CAPCA program start across the state called the Chapter Advocacy Leadership (CAL) Program. We have amazing lobbyists in Sacramento who already have relationships with legislators and regulators, including their Sacramento staff. What we are building through the CAL Program is relationships with PCAs and local/state elected officials in the district. This homes in and builds on constituent to representative relationships. When we establish those relationships naturally without direct lobbying, they are available to us when we need them most. PCAs chosen to participate in this program will have direct training, many times in small cohorts or one-on-one. This is a learning opportunity for PCAs at all stages of their career.

There are big things happening to assimilate to the new regulatory era we are in and you never know how you and your story can be impactful to the entire industry. Therefore, we urge you one last time to join a CAPCA chapter, get involved at the state level, and join a committee. Your career and your industry will thank you!

For more information on how to get involved, please visit capca.com/chapters or contact support@capca.com. ■

CAPCA MEMBERS-ONLY BENEFITS

Membership with CAPCA is the best way to take your involvement, education, and skill set to the next level.

CAPCA PROVIDES THREE LEVELS OF MEMBERSHIP FOR INDIVIDUALS:

ACTIVE MEMBER

Only California State licensed Pest Control Advisers are eligible for Active Membership in the Association.



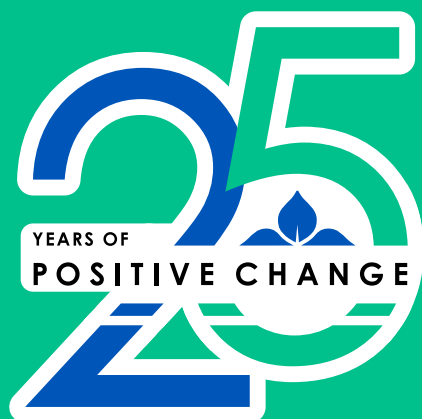
ASSOCIATE MEMBER

An associate member is any person not licensed as an agricultural Pest Control Adviser, but may hold other licenses issued by the State of California, and wants to promote the purpose of the Association.

STUDENT MEMBER

A student member is a student regularly enrolled in a college or university, majoring in biological or agricultural sciences and preparing for a career in pest management. A student member may not hold a DPR license.

To join, visit <https://capca.com/membership/>



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Summertime calls for updating your CAPCA membership

Crystelle Turlo, Chief Operations Director

<https://capca.com/membership/>

Members renewing at the end of 2023 are urged to take the time now to ensure their membership is up to date.

2023 Membership is currently available online at capca.com. Members expecting to renew their license before December of 2023 should confirm their current membership information, including mailing address, email address, and phone number. CAPCA staff can help members log into their accounts and update their information, if needed. To receive help, reach out to support@capca.com.

The CAPCA state office moved in 2021 to: 555 University Avenue, Suite 250, Sacramento, CA 95825.

Members who plan to pay their dues with a personal check

should send the check to the CAPCA State Office with a completed member application. Member applications can be found at capca.com or requested at support@capca.com. Companies that pay for Individual Membership should also include completed applications with each membership.

For general Individual Membership questions regarding hours or member benefits, don't hesitate to contact Briana Love at briana@capca.com or (916) 928-1625 extension 1.

Finally, CAPCA staff would like to thank every member for their patience as we transition to the new CAPCA Member Dashboard. This dashboard was created with the member feedback in mind, and we hope you find it easier and more intuitive to use. ■

CAPCA Welcomes New Office Manager

Meet the new CAPCA Office Manager, Jennifer Hassouna. Prior to joining the CAPCA team, Jennifer served as the Accounting and Human Resource Manager for a local commercial printing company. In her role, she oversaw and improved the company's internal Standard Operating Procedures.

Throughout her 20-year career, Jennifer has served as an office manager and paralegal. She is currently pursuing a degree in Business Management - Accounting from Strayer University. She is focusing on becoming a Certified Public Accountant.

Jennifer uses her passion for volunteer work to serve her community in a variety of ways. She has worked as a General Education Tutor for Boaz & Ruth, Inc. in Richmond, VA, and as a Court Appointed Special Advocate Guardian Ad Litem for at-risk youth in Fulton County, GA. Additionally, she served as an event photographer for the Atlanta Children's Shelter and volunteered her paralegal skills for Kentucky State Representative (Ret. Colonel) Pamela Stevenson, Esq. Jennifer's father served in the Marines and her mother in the Navy, inspiring Jennifer to volunteer for 180° Comprehensive Veteran Services (180CompVets) in Conyers, GA as a Business Advisor. This organization serves the needs of U.S. Armed Forces Veterans and offers guidance through the Veterans Administration. During her free time, Jennifer enjoys hiking, fishing, traveling, and photography.

"It is my pleasure to serve the members of CAPCA," said Jennifer. "My goal as Office Manager is to provide efficiency for CAPCA Staff, Chapters, Members and Volunteers." Welcome to the team Jennifer, we look forward to working with you! ■



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NRDC attempts a watered-down ban on treated seeds

Brad Hooker, Agri-Pulse

Assemblymember Rebecca Bauer-Kahan of Orinda has filed several measures this year sponsored by the Natural Resources Defense Council (NRDC) and aimed at the agricultural community. The progressive Bay-Area Democrat has revived her attempt at banning pesticide-treated seeds in California, though with a more indirect avenue.

Advocates have targeted treated seeds, particularly with neonicotinoids, for several years. In 2017 an environmental coalition petitioned the U.S. EPA to regulate treated seeds. Frustrated at the pace to respond, the coalition followed up with a lawsuit in 2021, arguing the agency was ignoring the petition. EPA rejected the petition last fall but pledged to examine the issue in more detail.

The Department of Pesticide Regulation denied a similar petition in 2020, citing insufficient data. Months later Bauer-Kahan filed legislation to ban neonic-treated seeds, pulling the bill later amid a shortened session due to the pandemic. DPR held an informational hearing the same year to further examine the existing research, which primarily focused on Midwest row crops. Last February NRDC followed up with a lawsuit claiming DPR must regulate neonic-treated seeds.

The department, meanwhile, has been moving forward on regulations to further limit the use of other forms of neonicotinoids and to expand its budget by increasing the mill assessment, enabling it to broaden regulations for products like treated seeds.

Bauer-Kahan also shifted her focus, authoring a measure last year to ban the use of neonics on lawns and gardens. Gov. Gavin Newsom later vetoed the bill, reasoning DPR “has already taken significant steps to restrict neonicotinoid uses, based on scientific review and documented uses” and said the agency will begin the process of evaluating non-agricultural uses in 2023.

Less than four months later Bauer-Kahan decried DPR’s pace and blasted Newsom for not following through on his commitment to examine backyard use. She revived the legislation “to ensure that the administration does as they promised.”

In March she also returned to her effort to regulate treated seeds with Assembly Bill 1042. State lawmakers in New York have introduced legislation as well to ban the use of neonic-treated seeds.

“We’re in the middle right now of what many are calling an insect apocalypse,” said Laura Deehan, state director for Environment California, testifying in support of AB 1042 during a policy committee hearing in April. “We’re seeing dramatic biodiversity loss happening, which really threatens the web of life in which we all rely on.”

Deehan alleged that the nation’s agricultural landscape is 48 times more toxic than 25 years ago and blamed pesticides applied to seeds for colony collapse disorder in bees and declining populations of migrating songbirds.

Bauer-Kahan described AB 1042 as “an incredibly simple bill” that ensures DPR “actually regulates all the pesticides.” She charged that banned pesticides are coming into California on the seeds and putting farmworkers, the environment and the food system at risk. She believed the measure did not pose any sort of ban.

Lucas Rhoads, an NRDC staff attorney, added that growers “would have plenty of options available to them,” since 210 seed treatment products are already registered for use in California.

A coalition of nearly two dozen farm groups, however, viewed it as a ban, since the legislation would prohibit the sale, delivery or use for treated seeds not registered with DPR for that use. Starting next January, no treated seeds would be available for several years while DPR performs an extensive regulatory review across multiple products, according to an opposition letter.

“Treated seeds and pesticide-treated seeds are very important for both organic and conventional agriculture,” said Dennis Albani, a lobbyist for the California Seed Association, during the committee hearing.

The treatment protects plants from pests, disease and fungi in infancy, the most vulnerable stage, providing “the

best chance to develop into healthy, high-quality plants,” according to the bill’s opponents. It maximizes the harvest potential and reduces the amount of foliar applications later in the lifecycle. Albani added that it also minimizes the number of passes by tractors and the amount of labor needed, reducing the carbon footprint as well as the potential for human exposure to pesticides.

Albani rejected Bauer-Kahan’s assertion that treated seeds are “an incredibly huge” loophole in California regulations.

“Treated seeds are regulated,” he stressed. “Like all pesticides, the active ingredients are approved by US EPA. They are given a label that strictly controls how those materials are used as treated seeds.”

California also regulates them as treated articles, as it does with treated wood, firefighter garments and marine paints.

Albani worried that adding yet another layer of regulations would deter some manufacturers from going through the lengthy review process to register the products for niche commodities like kale, bok choy and cauliflower.

“It’s upending your business. It’s changing your business fundamentally,” added Taylor Roschen, a lobbyist for various agricultural associations. “It’s death by a thousand cuts with issues like this that really impact the small, diversified farms in California.”

Roschen struggled to understand what California’s new regulatory structure for the existing treated seeds would look like under the limited description presented in the bill.

The committee nevertheless approved the measure along party lines, passing it to the Assembly Appropriations Committee. A fiscal analysis found AB 1042 could result in increased costs for subsequent regulations and to county agricultural commissioners for the additional local enforcement. Yet it would also bring more revenues to DPR. Opponents charged it would add a significant expense to the department and commissioners, whose budgets are already structurally imbalanced.

If the bill survives Appropriations, it would have a strong chance at passing the rest of the Democratic-controlled Legislature and land on Newsom’s desk in September.

For more news, visit Agri-Pulse.com



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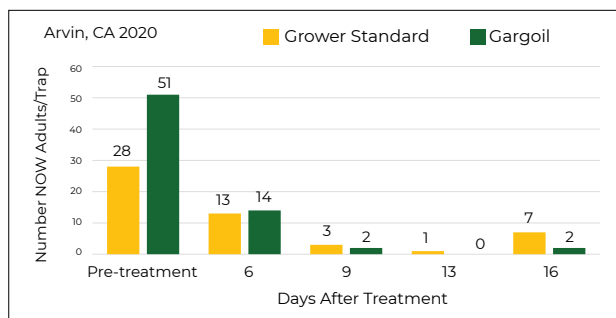
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HAPPY RETIREMENT

Joyce Basan, 17 Years of Service

This May 2023, CAPCA said farewell and happy retirement to Joyce Basan. Joyce has been with CAPCA since 2006, providing her skill and expertise for over seventeen years.

Joyce received her Associate's in Agricultural Plant Science from Consumnes River College in 1991. She began her career in the viticulture field immediately following her education. In 1994, she was hired to manage Continuing Education Center for Pest Management (CECPM). CECPM is a cooperative effort between CAPCA and Pesticide Applicators Professional Association (PAPA).

In 2006, after twelve years with CECPM, she was offered a position with CAPCA as the Programs & Communications Director. She has managed the Adviser, marketing, administrative support, CE event planning, chapter outreach, and CCA certification training. Her position eventually grew to include HR management, staff support, and serving on various committees.

"Joyce has been a critical piece to the success of CAPCA; in her seventeen years, she has been a servant to the industry and a wonderful team member," said Ruthann Anderson, CEO. "Our team will surely miss her; however, we are excited for the next season in her life."

In September 2021, Joyce relocated and began working remotely in Syracuse, NY, to be closer to her son and his family, including her granddaughter Glynis.

"As I reflect on my almost 30 years serving the pest management licensees, I feel I have been very privileged to contribute support to such a fine group of professionals who provide such a vital service to California's food and fiber industry." Upon retirement, Joyce is excited to spend more time with family and travel more frequently.

Joyce, the CAPCA staff, and our members are extremely grateful for all the years you have dedicated to the PCA industry. We hope you enjoy your retirement; it is certainly well-deserved.



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Retired Monterey County
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Juan Hildago

New Monterey County
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David Robinson

Retired Merced County
Agricultural Commissioner



Sean Runyon

New Merced County
Agricultural Commissioner



Cathy Fisher

Retired Santa Barbara
County
Agricultural Commissioner



Jose Chang

New Santa Barbara County
Agricultural Commissioner

& HELLO COMMISSIONERS



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Tim Pelican

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Kamaljit Bagri

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Agricultural Commissioner



Carlos Ortiz

Retired Imperial County
Agricultural Commissioner



Jolene Dessert

New Imperial County
Agricultural Commissioner

**The Department of
Pesticide Regulation
is seeking nominations
for the
2023 IPM
Achievement
Awards.**



www.cdpr.ca.gov



Achieve@cdpr.ca.gov

Farmers, producers, growers, and urban applicators in California are working hard to effectively use integrated pest management (IPM) to safely grow our food and safeguard green spaces. Our members should be recognized for abiding by IPM principles.

We're urging members to apply for the Department of Pesticide Regulation's IPM Achievement Award. The award recognizes individuals and organizations who are leaders in the use of safe, sustainable, and reduced-risk pest management practices.

To nominate an individual or organization for the award, go to www.cdpr.ca.gov and fill out the online nomination form.

Anyone can submit a nomination. The deadline for submissions is June 30, 2023. DPR will announce award recipients in 2024. For additional information on the IPM Achievement Award, go to www.cdpr.ca.gov.

We hope you consider nominating your own organization or another to recognize our industry's efforts to promote safe, sustainable, and reduced-risk pest management methods in California. ■





CAPCA
AT THE CENTER OF PLANT HEALTH

STUDENT NETWORK EVENT

SUNDAY, OCTOBER 15, 2023

11:45 a.m. - 4:30 p.m.

**CAPCA's Annual Conference
in Reno, NV**

CAPCA is thrilled to be hosting the Student Network Event again! This is THE event for students interested in a career as a Pest Control Adviser. At the CAPCA Annual Conference, we connect students from throughout California with professionals in all aspects of the industry to provide career insights, share their real-life experiences on the job, and provide training specific to the agricultural sector.

Student Registration Information

1-Day Student Network Event (Sunday Only) \$100

Companion Pass for Conference Program (including Student Networking Event) \$395

Sponsor Information

Contact Katelyn Greening for information
Conference@CAPCA.com

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THROWBACK ●●● PHOTO CONTEST

Eligibility:

Entrants must be eighteen (18) years or older, must be amateur photographers (one who does not regularly receive income from photography), and must be current 2023 CAPCA members.

Important Dates:

Submission Deadline – September 1, 2023

Winner Announcements at CAPCA Annual Conference – October 2023.

Winning Photos Published – 2024 in the Adviser magazine as part of CAPCA's 50th Anniversary celebration, on the CAPCA website, and throughout CAPCA Social Media platforms.

Prizes:

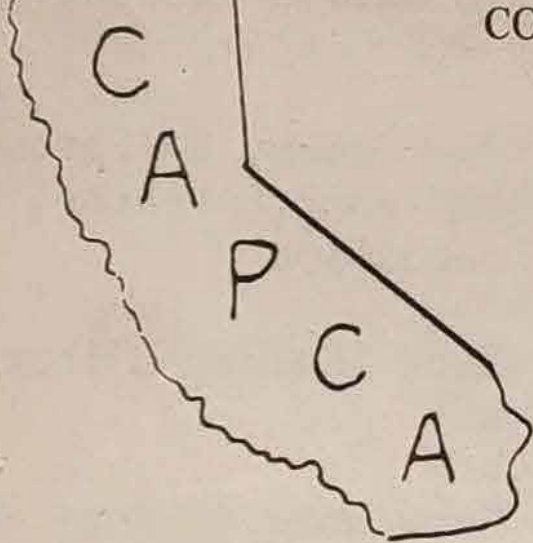
Each entrant may enter as many photos as they would like but is eligible to win only one (1) prize.

Winners will be chosen for each of the following prizes:

- One Grand Prize winner - Complimentary Annual Conference Admission for 2024 in Anaheim, CA
- One First Place winner - SWAG bundle including a \$200 Disney gift card
- One Second Place winner - SWAG bundle including a \$150 Disney gift card

Honorable Mentions - The committee will make decisions about Honorable Mentions based on the content submitted and may choose 2-3 winners. Honorable Mention winners will receive a SWAG bundle, including a Disney gift card, and may be featured in issues of the Adviser magazine.

CONFERENCE PROGRAM



Judging:

Judging will be held by committee/panel review. All decisions are final. CAPCA reserves the right to disqualify any entry deemed inappropriate or not conform to stated contest rules.

Rules & Submission Specifications:

- All photos must be original work taken by the entrant. No third party may own or control any materials the photo contains, and the photo must not infringe upon the trademark, copyright, moral rights, intellectual rights, or rights of privacy of any entity or person.
- The photo must be in its original state and cannot be altered in any way, including but not limited to removing, adding, reversing, or distorting subjects within the frame.
- The prize must be collected by the winner and is non-transferable.
- Entrants must submit photo(s) in digital format. If you are submitting a photo that was taken with film, please take a digital photo of it for submission. If it wins, CAPCA will work with you to get a higher-resolution scan done.
- Photos may not contain any product placement or promotional material (e.g. company logo).
- Entrants must submit photo credit information, title of photo, and caption/description for each photo submitted.
- Photo subject matter must be from any previous CAPCA event (i.e. Annual Conference, chapter events, CE meetings, Spring Summit, etc.).
- A completed entry form must accompany all photo submissions.
- Images not meeting the contest submission specifications will be ineligible for prize selection. However, they may be selected to be viewable on an online gallery on the CAPCA website.

Photo Usage Agreement:

By entering the contest, entrants agree that any photo(s) submitted can be used by CAPCA for public relations, advertising, marketing, and/or promotional purposes across all CAPCA platforms (website, social media, print, etc.).



Annual CAPCA Conference & Agri-Expo

Show us your Ag Tech

October 15-17, 2023 | Grand Sierra Resort | Reno NV



REGISTRATION OPENS MID MAY

The California Association of Pest Control Advisers (CAPCA) Annual Conference and Agri-Expo is the major continuing education meeting for CAPCA and for the state's PCAs. Members generally obtain one-third of their state continuing education requirements at this meeting. Continuing education credits are applied for with the California Department of Pesticide Regulation, Golf Course Superintendents Association of America, Arborist Association, California Certified Crop Adviser Program, California Certified Nurseryman's Program, and the state departments of agriculture in Oregon, Arizona and Nevada.

Conference Schedule

Sunday, October 15, 2023:

Student Network Event
Welcome Reception

Monday, October 16, 2023

General Session
Membership Luncheon
Monday Night Fun Night

Tuesday, October 17, 2023

General Session
Exhibitor Presentations

Discounts for CAPCA Members (Active & Associate) CE Hours and Program Information:

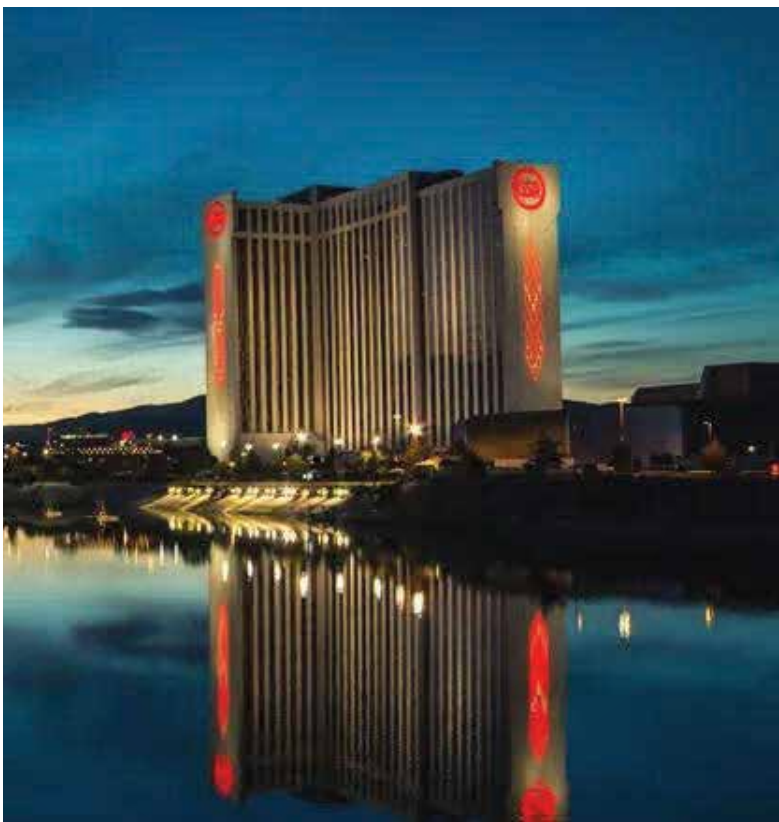
DPR Hours Total TBA (Laws & Other)

Please note: No Label Update session will be held in Reno.

Pre-Recorded Label Update Program

Pre-recorded Label Updates will only be available online. Label Update sessions will be included with the Pre-Registration purchase of Member or Non-Member registration through August 30, 2023. This preconference program will be available to pre-registered Members and Non-Members starting in September and accessible through December 31st. Label Update Only will be available online for purchase in October 2023.

For More Information: capca.com/conference



Want to show us your AgTech, become a sponsor or exhibit at our 49th Annual Conference? Please contact conference@capca.com.



CAPCA Annual Financial Report

INCOME TOTAL: \$2,673,033

	Advertising	\$198,950	7.4%
	Events	\$1,377,440	51.5%
	Membership	\$879,935	32.9%
	Technology & Online CE	\$50,605	1.9%
	Misc./Reimbursements	\$166,103	6.2%

Organization:

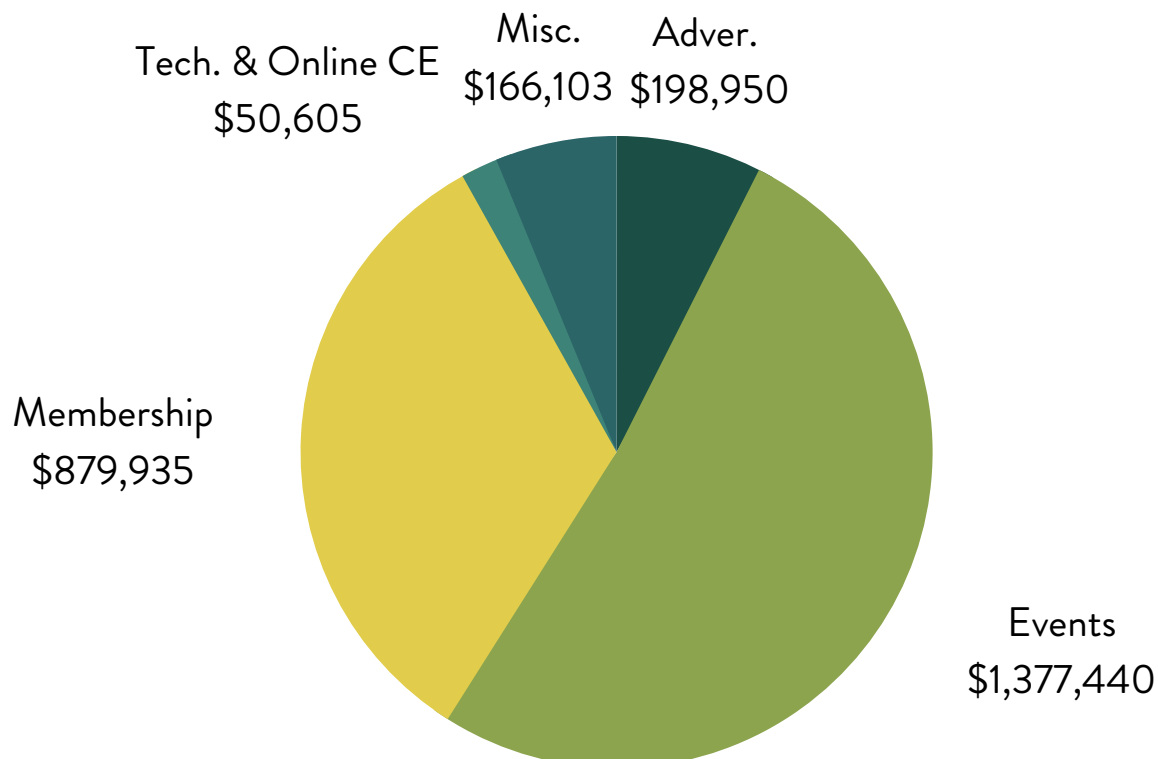
CAPCA is a California non-profit 501(c)(6) mutual benefit corporation.

Base of Reporting:

2022 financial statements were prepared using an accrual basis of accounting. Property and equipment purchased were capitalized and depreciated over their useful lives.

Income Tax Status:

CAPCA and Regional Chapters, Stanley W. Strew Educational Fund, and the CAPCA Political Action Committee are exempt from income taxes under IRS code sections 501(c)(6), 501(c)(3), and 527, respectively.



January - December 2022

EXPENSE TOTAL: \$2,638,892

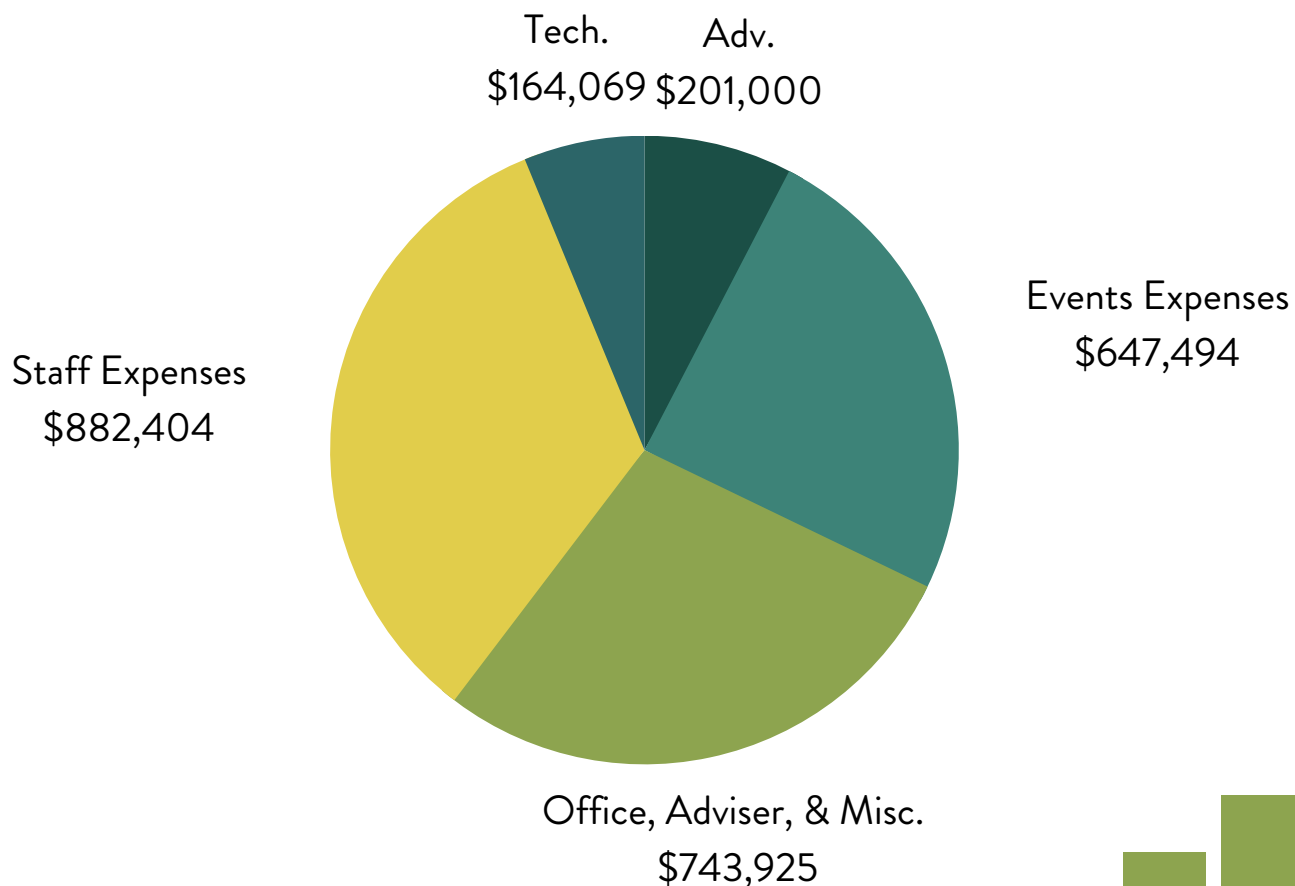
Functional Expense Allocation:

87.3% of expenses are directly related to CAPCA's purpose and mission. Only 12.7% is spent on general administration.

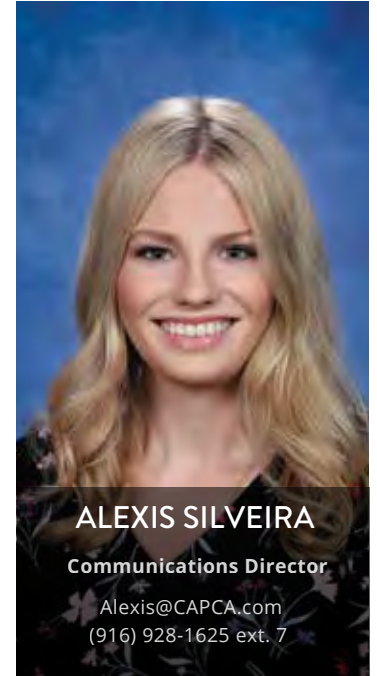
The CPA firm of Boden Klein & Sneesby performed a financial audit of CAPCA, Stanley W. Strew, Regional Chapters, and the CAPCA PAC accounts. They found all financials to be in order.

CAPCA is dedicated to the professional development and enhancement of our members' education and stewardship, which includes legislative, regulatory, continuing education, and public outreach activities.

	Advocacy	\$201,000	7.6%
	Office, Adviser, & Misc.	\$743,925	28.2%
	Staff Expenses	\$882,404	33.4%
	Events Expenses	\$647,494	24.5%
	Technology	\$164,069	6.2%



OUR TEAM



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DIAMOND LEVEL



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Pinion

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Southern Valley Chemical Company

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Summit Agro USA

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Teleos Ag Solutions

The Morning Star Company

Tiger-Sul Products, LLC

Western Region Certified Crop Advisers

CAPCA Spring Summit

Spring Summit put the *Spring* in CAPCA's step

The 2023 CAPCA Spring Summit was one for the books. With record attendance, unforgettable speakers, and QR scanning with ease, we will surely never forget this year. With our sincere gratitude, the CAPCA Board of Directors and staff would like to thank all our sponsors, exhibitors, volunteers, and speakers for your part in bringing this event to fruition.

When CAPCA starts planning an event, we keep in mind one particular goal: how can we make this an informative, fun, educational networking event for our members and the Pest Control Adviser (PCA) industry? A robust planning approach ensures we can achieve this goal for our members. Katelyn Greening, Events and Partnership Director for all CAPCA events, led this effort.

Spring Summit kicked off on Tuesday, April 25, 2023, with a half-day program. The program included six topics, from Label Updates to a panel with three county agriculture commissioners featuring 4.5 DPR/CCA hours and 2.5 AZ hours.

One of the presentations on Tuesday was Spray Safe 101 with Riverside County Agricultural Commissioner Ruben Arroyo. The Spray Safe program started in 2005 to avoid legislation and communicate lessons surrounding the safe use of pesticides. Arroyo best summed up the program by saying that the program goal is to commit to communication, outreach, and education about pesticide use. This includes where and how it will be applied between growers, PCAs, farm labor contractors, and the surrounding areas to increase the safety of pesticide use.

Attendees, sponsors, and exhibitors closed Day 1 of the Spring Summit with exhibitor presentations and a social hour. This time is so crucial to the networking atmosphere since so much of the day is spent in continuing education courses. It is an opportunity for discussion and idea-sharing between colleagues while having an appetizer or two.



When speaking with sponsor Douglas Snyder of SQM about why the CAPCA event is important for his business, he said: “This is a great venue for us to interact with the PCAs and CCAs we see on a normal basis. This event allows us to gather with 200 PCAs in one setting and capture time with them that we may not be able to if they are out in the field.”

The second and final day of the Spring Summit began bright and early with breakfast and the opportunity to chat with other industry members. Attendees then started a long but informative day in the general session, collecting up to 7.5 DPR hours, 7.0 CCA hours, and 6.0 Arizona hours. With over fifteen different speakers, attendees were able to diversify their knowledge across commodities, specialties, and regulations.

One continuing education topic was “*Why is Weed Management So Difficult?*” by Dan Wickham, “Being prepared to tell our story as a PCA in whatever perspective or environment you work in is crucial; this topic happens to be vegetation management,” said Wickham. “We (PCAs) need to be able to communicate with who we work for and respond to public concerns that we are, in fact, working within the guidelines of CEQA and that we have environmental stewardship at our core.”

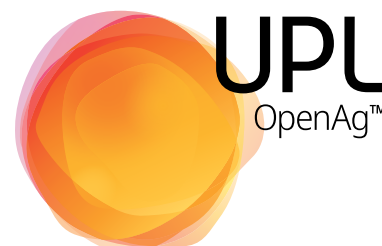


At CAPCA, we seek to provide as much professional diversity as there is in the industry. We believe this helps foster a well-rounded and balanced atmosphere for all who attend. In addition, it is CAPCA’s hope that events such as Spring Summit and Conference are opportunities to grow our industry with the next generation. Spring Summit Title Sponsor Novozymes representative Nic Steeneken has been in the industry for ten years and explained why these events are important to him: “At my first CAPCA event, I was able to see the industry, comradery, and white pickup trucks – everyone seemed so happy, and I thought that this could be a path for me. So, ten years later, I am a CAPCA member and am active in my area chapter,” said Steeneken. The power that one positive event could have on an industry member is our success story, and we look forward to hearing how people have been positively impacted.

Spring Summit 2023 was an amazing success because of the wonderful industry CAPCA represents. Again, thank you to all who attended, volunteered, exhibited, and sponsored. The CAPCA Board of Directors and staff look forward to seeing you at the 2023 Annual Conference and Agri-Expo in Reno, NV, from October 15-17, 2023. For more information on how to make the most of CAPCA events, please contact Katelyn Greening at Katelyn@capca.com! ■

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CAPCA Spring Summit



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Knowledge grows



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Rice Rotation Calculator: a decision-support tool to assist in economics-based decision-making for crop rotations

Whitney Brim-DeForest, Rice Advisor, UC Cooperative Extension, Sutter-Yuba, Placer, and Sacramento Counties, and Sara Rosenberg, Ph.D. Student, UC Davis

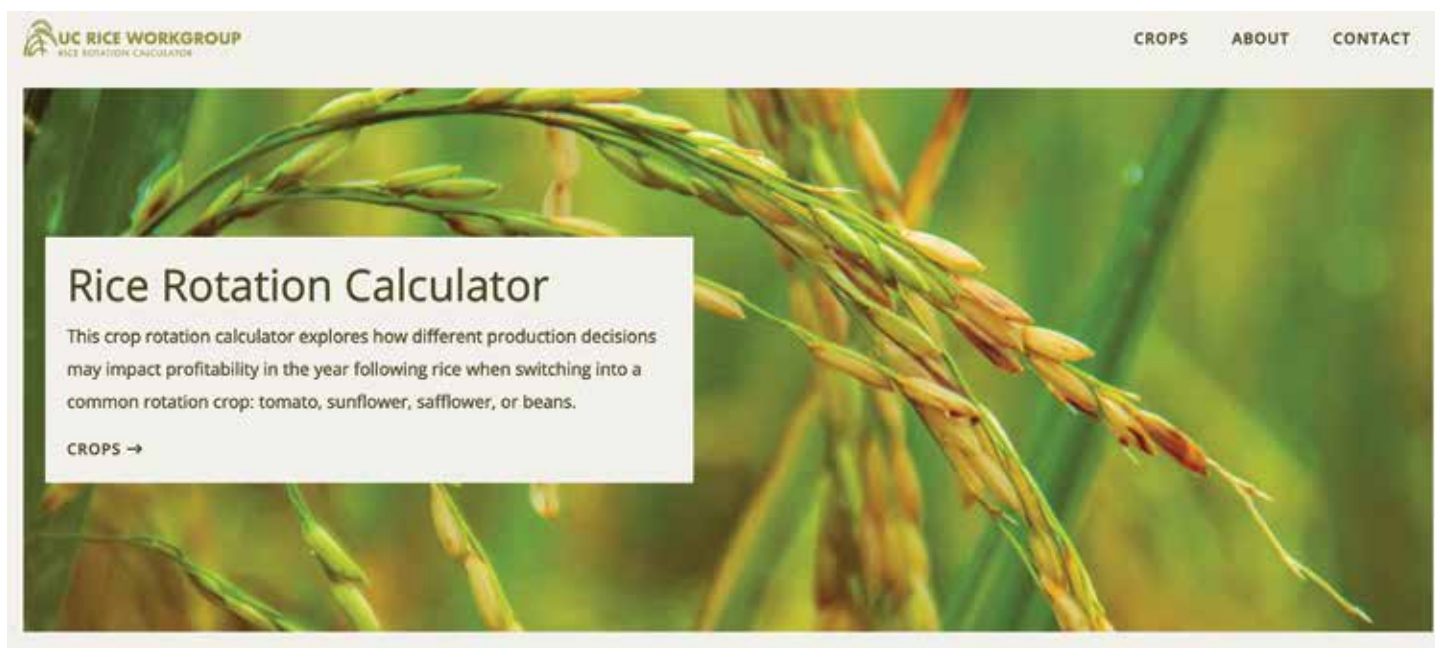


FIG. 1. The webpage for the rice rotation calculator can be found at: <https://rice-rotation-calculator.ipm.ucanr.edu/>

The University of California Cooperative Extension (UCCE) Rice Team has launched a decision-support tool, the “Rice Rotation Calculator,” which can be found at <https://rice-rotation-calculator.ipm.ucanr.edu/> (Fig. 1). The tool was created through a partnership between UCCE, UC Davis, and the UC Integrated Pest Management Program, and was funded by a grant from the Western IPM Center.

The idea for the calculator came about from a study conducted by UC Davis Graduate Student Sara Rosenberg, where she interviewed growers across the rice-growing region on their crop rotation practices, both growers who did and did not crop rotate. One of the large barriers that came out of the study was the economic uncertainty of switching out of rice, including the cost of switching as well as the overhead costs of a new crop, whether or not a new crop would be profitable, and the difficulty of finding markets. The tool provides information to help answer economic uncertainty question, as well as the overhead costs and profitability of the new crop.

The tool was developed via a series of data collection and feedback meetings over the course of the winter and summer of 2021. The meetings provided data on costs of switching to each of the proposed crops: **sunflower, safflower, tomatoes, and dry beans**. Additional data on costs were taken from the UC Davis Costs Studies for rice and each of the rotational crops, as well as US Department of Agriculture (USDA) data. The rotational crops were chosen based on the data collected from Rosenberg’s previous crop rotation study.

Tool Overview

The tool allows California rice growers to choose between four rotational crop options: safflower, sunflower, tomatoes, and dry beans. Growers can input data from their production systems and ranches for rice as well as the rotational crops. There are also default data values (averages) that the tool generates if growers do not have the values. The defaults are derived from the data collected over the series of grower meetings, as well as from the cost studies and USDA data.

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Advertorial

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The impact of foliar and soilborne diseases can be devastating for growers of high-value fruits and vegetables. New, effective tools are needed to arm growers and PCAs with the right solutions to fight diseases and fungicide resistance while maintaining high-quality crops.

Theia® fungicide, the second proprietary solution from microbial innovation leader AgBiome®, was developed entirely through the company's in-house GENESIS™ discovery platform to provide robust, broad-spectrum protection.

Now approved for use in California, Theia fungicide offers an excellent complement to AgBiome's Howler® fungicide and growers' existing crop protection strategies.

"Theia fungicide provides growers with a comprehensive solution to protect their crops from disease while enhancing the agroecosystem," said Adam Burnhams, AgBiome chief commercial officer. "We are thrilled to now be able to offer it in California and further our mission of protecting growers, workers, and consumers."

Theia fungicide protects crops through multiple modes of action by blocking fungal and bacterial pathogens and activating crops' natural defenses. The biofungicide offers excellent control on diseases such as powdery mildew and Sclerotinia and contains the active ingredient *Bacillus subtilis* strain AFS032321.



A FULL-SPECTRUM APPROACH TO CROP PROTECTION

Theia fungicide offers excellent control on a variety of diseases in California crops.



Strawberries	
Disease	Application timing
Phytophthora root rot	At transplant and early season
Powdery mildew	All season

Grapes	
Disease	Application timing
Downy mildew	At budburst and full bloom
Powdery mildew	At budburst to veraison



Lettuce	
Disease	Application timing
Downy mildew	At lettuce head development, vegetative growth, and harvest
Sclerotinia	At growth stages post-thinning to head development

Theia fungicide is a broad-spectrum tool for resistance management with no cross-resistance to other fungicides. Shield your investment and defend your crops with the ultimate protection.

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The output generates a graph that changes as the inputs and values shift (Fig. 2), and allows the grower to see in real-time the impacts of changing different costs. The values are also outlined below the graph in a table (Fig. 3) which also changes as inputs shift. The chart shows costs and savings for several cost categories: the opportunity cost of time learning the new crop and finding markets for the new crop, seed, equipment and implements, straw management, field reconstruction (i.e., levee deconstruction/formation or additional slope), labor, inputs, harvest, irrigation, extra expenses (which includes office expenses and compliance payments), crop loss, and rent.

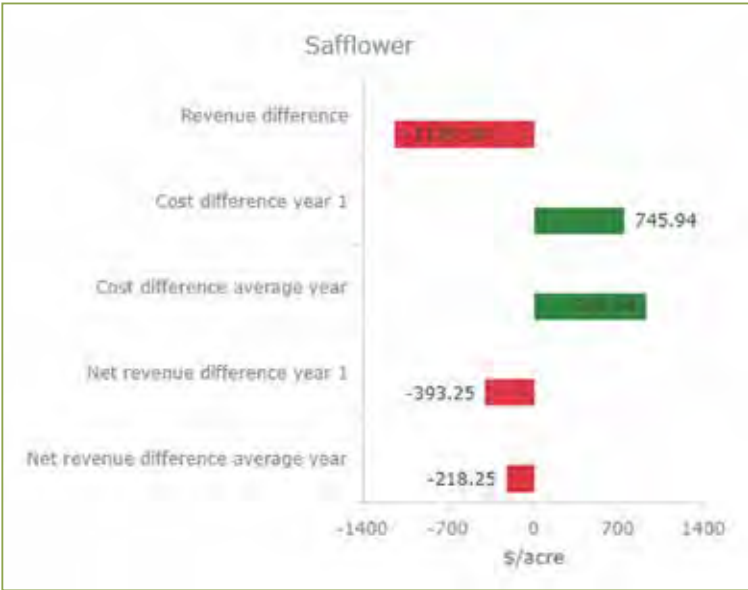


FIG. 2. An example output chart from the calculator with safflower as a rotational crop. In this scenario, the calculator provides the overall revenue difference between safflower from rice (“Revenue difference”), the cost difference between safflower and rice in the first year of switching out of rice (“Cost difference year 1”) as well as an average rice year (“Cost difference average year”), the profit difference between safflower and rice in the first year (“Profit difference year 1”), and the profit difference on an average rice year (“Profit difference average year”).

Summary		
Opportunity cost	Cost	\$-176.25
Seed	Cost	\$-22.41
Equipment and implement cost	Saving	\$39.68
Straw management	Same	\$0
Field reconstruction	Cost	\$-6.96
Labor	Cost	\$-85.28
Inputs	Saving	\$372.85
Harvest	Saving	\$101.15

FIG. 3. An example partial output table from the calculator with beans as a rotational crop. Categories that state “Cost” and show a negative value indicate an additional cost for rotating into beans, for example: “Seed” and “Labor”, whereas categories that state “Saving” and show a positive value indicate a benefit to rotating into beans, for example: “Equipment and implement cost,” and “Harvest.” All costs and savings are shown on a per-acre basis.

Using the Calculator

First, the calculator allows you to pick the rotational crop of your choice (tomatoes, safflower, sunflower, or dry beans). The drop-down menu will then show you several crop cost categories, and each category will be accompanied by cost components that have associated values. The calculator compares the costs and benefits associated with producing rice with a rotation crop. For example, under the “Baseline Information” category, you will enter your price and yield for your rice crop, your cost for water, and your cost for land (rent) (Fig. 4). You will also pick a yield value for your rotation crop in the baseline information section. There are default categories for each of these values, if you do not have an estimated or known value. After you have entered your baseline information, you would continue to the next cost category, and change values as you see fit.



Calculator

Category
Baseline Information

Baseline information for Rice

Yield - lbs/acre (2,000 lbs. = 1 Ton) ⓘ
8500

Yield - Price per lbs. (USD)
0.19

Grower rental arrangement - fixed (USD per acre) ⓘ
475

Grower rental arrangement - crop share (%) ⓘ
14%

Feedback Appreciated

If you have suggestions for improvements to the tool, please feel free to contact us (Whitney Brim-DeForest at wbrimdeforest@ucanr.edu, or Sara Rosenberg at srosenberg@ucdavis.edu).

Acknowledgements

We would like to acknowledge other contributors to this research: Cameron Pittelkow, Ellen Bruno, Luis Espino, Bruce Linquist, Michelle Leinfelder-Miles, Kassim Al-Khatib, members of the UC IPM rice work group and the California Rice growers who participated in the research.

To cite: Rosenberg S, Bruno E, Lam C, Tooyserkani B, Zorlu H, Martin T, Pittelkow C, Brim-DeForest W. (2022). UC IPM Crop Rotation in Rice Calculator. <https://rice-rotation-calculator.ipm.ucanr.edu/>

FIG. 4. An example input chart showing values that are put into the calculator. Defaults are shown, but users can change input values to reflect their own costs.



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We Finally Got Rain.

What does it mean for our soils?

By Abe Isaak, Agronomist for AgroLiquid



This winter and spring are one for the ages. Record snow and rainfall has led to flooding of farmland for long periods of time. Considering the large snowpack, some areas will have flood waters for several months, as water is released from reservoirs, flooding rivers and farmland. The rain and snow are badly needed. And while the rain brings many benefits to the soil, it also has unwanted consequences of which to be aware.

One of the benefits has been leaching of sodium. If we turn back the clock a few months to when we had seen very little rainfall in a long time, the soil had little opportunity to leach out sodium with clean rainwater. Until the rains this winter, many areas had a high concentration of sodium in the top foot of soil. These rains allowed some of that sodium to leach from the topsoil. This is good for our soils!

However, we need to remember that the rain also leaches other, beneficial nutrients from the soil. For example, what nitrogen applied last fall that was not taken into the plant has been pushed through the root zone and is gone.

Beyond nutrients, a key factor in healthy soils is the fungi and bacteria in the root zone. The soil biology is aerobic in the top 18 inches of the soil, it requires oxygen to survive and grow and to reproduce. When soil is flooded for a short time and drained, oxygen is returned to the soil and the biology starts to recover quickly. If the soil is waterlogged and flooded for a week to several weeks, the oxygen supply is cut off to the soil biology and it is very slow to recover to pre-flood levels in the soil. The soil biology helps make nutrients available, keeps the soil friable, creates pathways for oxygen and water to penetrate the soil. In an area that held water



for an extended period, you may find the plants are not responding to nutrients like they have in past seasons. Plants may turn yellow, look tired, and look like they need to be irrigated, even if they have wet roots.

In these cases, we need to get the soil biology started again. There are many biological products available that can be applied to the soil to help it recover from flooding. What the fungi and bacteria need are more numbers in the soil. We also need to feed these critters. Carbon is a great source; humic acid or adding sugar-based carbon will provide a food source for the soil biology. If you are already adding biologicals into the soil, you may want to consider increasing the rates on flooded fields.

To find out how biological activity in flooded fields compare to non-flooded fields, take a soil sample to a lab and have them check the soil respiration to determine the health of your soil. Not all labs do this, but many do. This will give you an idea of the biological activity in your soil. As always, if you have any questions or concerns, consult a crop nutrition expert. ■



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Emerald ash borer: a menace at our doorstep

By: Beatriz Nobua-Behrmann, University of California Cooperative Extension
 Stacy Hishinuma, US Forest Service
 Ricky Lara, California Department of Food and Agriculture

Emerald ash borer (EAB), *Agrilus planipennis* (Coleoptera: Buprestidae) is a beetle native to Asia and is a major invasive wood-boring insect pest in North America. First detected in Michigan in 2002, EAB has since spread to much of eastern and central US and several provinces in Canada (see current distribution here: <https://www.aphis.usda.gov/aphis/maps/plant-health/eab-map>). In 2022, EAB was detected for the first time on the West coast, in Oregon (ODA, 2022). Although it hasn't been detected in California yet, the proximity to a known infestation raises serious concerns. In addition to EAB's ability to spread on its own, people have also inadvertently spread the pest by moving infested firewood. Domestic quarantine regulations for EAB have been lifted since 2021 and, in consequence, movement of ash trees or borer-infested wood is no longer regulated, which increases the chances of EAB spread to new locations.

EAB can infest and kill both ecologically and economically important host plants in the family Oleaceae. It has been estimated that EAB has killed at least 50 to 100 million ash trees so far. All North American ash species (*Fraxinus* spp.), cultivated olive (*Olea europaea*), and white fringetree (*Chionanthus virginicus*) are at risk. As a result, EAB remains a national threat to vast urban and forested ecosystems, commercial olive, and associated timber, nursery, and specialty crop industries. The economic impact attributed to EAB in the US exceeds \$10 billion as it continues to spread westward (Kovacs et al., 2010).

This destructive beetle has four life stages: egg, larva, pupae, and adult. Adult EABs are small, 0.39 – 0.51 inches (10 – 13 mm) long, and metallic green (Figure 1). The larvae are creamy white, and dorso-ventrally flattened. As they feed on the cambium layer or vascular system of the plant, they create long S-shaped galleries filled with frass (Figure 2), which enlarge in width as they grow. When fully mature, fourth-instar larvae (Figure 3) are 1.02 – 1.26 inches (26 – 32 mm) long. In the eastern US, EAB completes its life cycle within ash trees in 1-2 years, depending on environmental factors (Herms and McCullough, 2014). Adults emerge during summer from ash trunks and branches to feed on host



FIG. 1: Adult emerald ash borer (*Agrilus planipennis*). Photo credit: Debbie Miller, USDA Forest Service, Bugwood.org



FIG. 2: Emerald ash borer S-shaped galleries filled with frass, exposed after bark has been removed. Photo credit: Ryan Armbrust, Kansas Forest Service, Bugwood.org

foliage and mate. Females lay an average of 40-70 eggs on the bark of host trees (Herms and McCullough, 2014).

Adult EAB beetles preferentially colonize stressed trees over healthy ash trees. Branches in infested trees begin to die from the top of the tree downward and the tree eventually dies. Tree death spans 2-5 years as cumulative EAB phloem feeding girdles the tree disrupting critical nutrient movement within infested ash trees (Flower et al., 2013; Herms and McCullough, 2014). It is common for all the trees in a single neighborhood to die synchronously within 4-5 years following an infestation (Klooster et al., 2013).

Signs of EAB infestation include the presence of D-shaped emergence holes about 0.12 inches in diameter (Figure 4), serpentine tunneling under the bark (Figure 2), and/or the presence of the adult or larvae (Figures 1 and 3). EAB tends to colonize the upper canopy first, which makes it challenging to detect infestations early. Visual indicators of a potential EAB infestation on ash trees include branch dieback (Figure 5), epicormic branching, bark splits, and woodpecker bark damage. Artificial traps (either the classic purple prism trap or the new green funnel trap) baited with a lure (Z-3-hexenol) and suspended in the canopy of ash trees are regularly used for detection and monitoring (USDA-APHIS PPQ). Another survey tool is the use of detection trees: ash trees that are girdled in spring to attract ovipositing EAB females, and then debarked in fall to assess larval presence and density (Mercader et al., 2013). Although destructive, the use of detection trees has proven an effective method of detecting low or very low-density EAB infestations, well before any external signs of infestation become apparent (Mercader et al., 2013).

EAB management in the US remains challenging. Susceptible hosts are abundant, with 7.5 billion ash trees in the US at risk of infestation (USDA-APHIS, 2007; Rebek et al., 2008; Tanis and McCullough, 2012, 2015). Furthermore, human-assisted movement of infested firewood, timber, and nursery stock has accelerated EAB spread. State efforts have focused on slowing the spread of EAB using a combination of management strategies (e.g., monitoring, inspection surveys, biological control releases, and quarantines; USDA-APHIS, 2020a). Many states have adopted the SLAM (SLOW Ash Mortality) approach, which is an integrated, multi-year strategy designed to suppress EAB population growth and delay the onset and progression of widespread ash mortality in isolated outlier sites. The SLAM approach includes surveys of all the ash trees in an area, the use of systemic insecticides to control EAB adults and/or larvae; attracting or concentrating EAB on girdled trees that are subsequently removed, and harvesting or removing ash



FIG. 3: Emerald ash borer larva. Photo credit: Pennsylvania Department of Conservation and Natural Resources - Forestry, Bugwood.org



FIG. 4: Emerald ash borer D-shape emergence hole on the bark of an Ash tree. Photo credit: Kenneth R. Law, USDA APHIS PPQ, Bugwood.org

trees from selected areas to reduce the amount of phloem (food) available for EAB development (McCullough and Mercader, 2012).

At the local scale, high-value, healthy trees can be treated with systemic insecticides if they are lightly infested or as a preventative measure if they are located within 10-15 miles of a known EAB infestation (Herms et al., 2005). Emamectin benzoate, azadirachtin, or imidacloprid applied as trunk injections, or dinotefuran applied via basal trunk

spray have shown to be effective to control EAB in ash trees (Gorman et al., 2022). Girdled ash trees can also function as trap trees or act as 'sinks', redirecting the infestation away from high-value trees. Removing or debarking those girdled trees in the spring can be used to reduce EAB density in recently established populations (Mercader et al., 2015). However, girdled trees can also attract EABs to their neighboring trees, so it is important to consider girdled trees as part of an overall management strategy (Mercader et al., 2015). All EAB infested plant material should be chipped to small pieces (1 inch diameter or smaller) to prevent the spread of this dangerous pest (McCullough et al., 2007).

The implementation of classical biological control is becoming a long term, cost-effective, self-sustaining, area-wide management strategy (Duan et al., 2022a,b). Several candidate agents for EAB biological control were collected from the native range of this pest and sent to the US for host-specificity evaluations (Duan et al., 2015, 2022a,b). Subsequently, USDA-APHIS approved the field release of one egg parasitoid, *Oobius agrili* (Hymenoptera: Encyrtidae) and three larval parasitoids, *Spathius agrili* (Hymenoptera: Braconidae), *Tetrastichus planipennisi* (Hymenoptera: Eulophidae), and *Spathius galinae* (Hymenoptera: Braconidae) (USDA-APHIS 2007, 2015). Through coordinated efforts, more than 8 million EAB parasitoids have been released across 30 EAB-infested US states. Post-release field data shows EAB parasitoids have established in some areas, are successfully parasitizing EAB, and showing promise to protect at-risk host trees (USDA-APHIS, 2020b).

While EAB is currently not known to occur in California, concerns have heightened given the confirmed EAB detection in neighboring Oregon in summer 2022. Proactive research is underway to survey resident natural enemies of buprestid beetles in California. Use of these natural enemies in combination with already known EAB-specific natural enemies available from USDA-APHIS would be among the sustainable pest management solutions used to protect the state's natural and agricultural resources.

Early detection is the main way to protect our California trees. If you find a tree that you believe to be infested with



FIG. 5: Ash tree infested with EAB, showing dieback in the upper canopy and epicormic growth on the lower trunk. Photo credit: Daniel Herms, The Ohio State University, Bugwood.org

EAB, please contact the California Department of Food and Agriculture (CDFA Pest Hotline: 1-800-491-1899) or report it online (www.cdfa.ca.gov/plant/reportapest). Keep in mind that EAB can be easily confused with other native and non-native insects. See below for some resources available online that can help you distinguish between EAB and other lookalikes.

More information and resources about emerald ash borer can be found online at:

www.aphis.usda.gov/plant-health/eab

<http://www.emeraldashborer.info/>

EAB Lookalikes resources:

<http://www.emeraldashborer.info/identifying>

<https://www.oregon.gov/oda/programs/IPPM/SurveyTreatment/Documents/EABLookAlikes.pdf>

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Pistachio Industry Update

By: Cadee Condit, Director of Government Relations, American Pistachio Growers

American Pistachio Growers (APG) is a grower-led and run non-profit trade association representing over 800 grower members in California, Arizona, and New Mexico. APG is governed by a democratically elected board of directors who are growers and funded entirely by growers and independent processors members to increase global awareness of nutritious, American-grown pistachios.

APG focuses on promotion, public relations, and consumer awareness of American-grown pistachios. Additionally, our government relations strategy focuses on educating elected officials across California about the pistachio industry. APG members grow pistachios in 25 counties throughout California.

The California pistachio industry is California's sixth largest commodity, according to the latest CA Department of Food & Ag data. The pistachio industry started with very humble beginnings. In 1929, the USDA was exploring "new worlds" of plants and the Chico New Plant Introduction Station sent William Whitehouse to Persia (modern day Iran) to collect pistachio seeds for planting. Mr. Whitehouse spent months collecting 20 pounds of pistachio seeds to bring back to Chico, to determine which pistachio tree would thrive in the California climate. While cultivated since the 1930's, commercial pistachio planting did not take off until the late 1960's. The pistachio is considered "the single most successful plant introduction to the United States in the 20th century."



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Assembly District, 14 Buffy Wicks (D)
Assembly District, 15 Timothy Grayson (D)
Assembly District, 16 Rebecca Bauer-Kahan
Senate District 3, Bill Dodd (D)
Senate District 7 Steve Glazer (D)
Senate District 9, Nancy Skinner (D)
Congressional District 9, John Garamendi (D)
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Congressional District 13, Mark DeGaulier (R)
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Assembly District 24, Marc Lee (D)
Senate District 15, Susan Tsongas (D)
Senate District 7, Steve Glazer (D)
Senate District 9, Nancy Skinner (D)
Senate District 10, Anne Wilson (D)
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Congressional District 12, Barbara Lee (D)
Congressional District 14, Eric Swalley (D)
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Congressional District 13, John Quares (R)
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US Senate, Omar Fournier (D)

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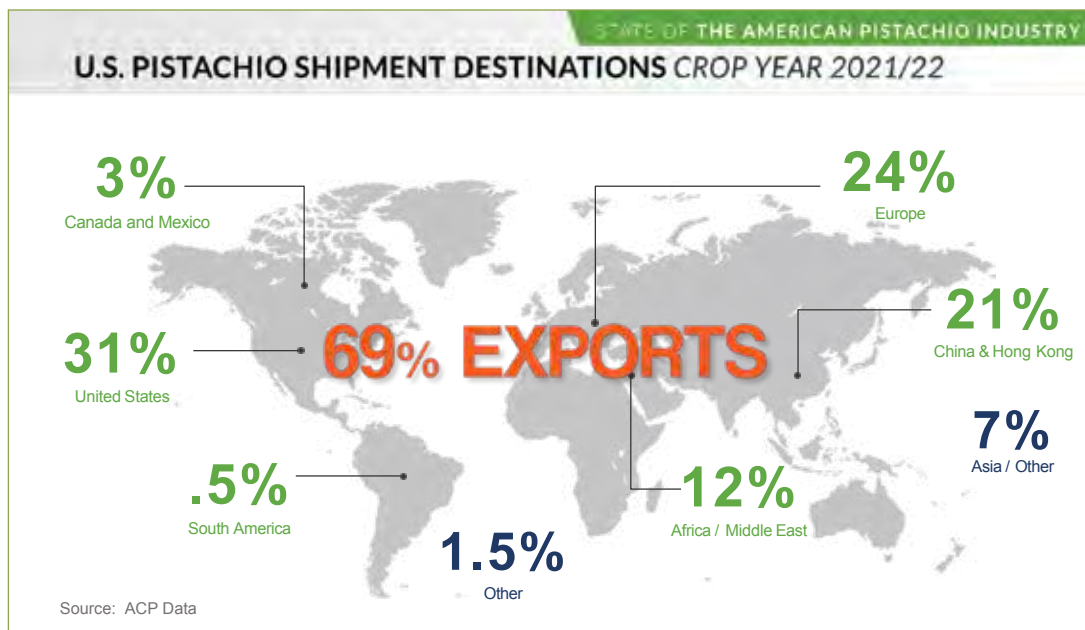
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 Congressional District 25, Bob Fajiga (D)
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 Congressional District 39, Mark Takano (D)
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In 1976, the first commercial crop was harvested, with a total of 1.5 million pounds. In 2020, the pistachio industry harvested a billion pounds—

Pistachio production has continued, despite California's challenges with Covid, the shipping crisis, supply chain, and transportation issues. In 2021/22, APG had its most significant shipment. Domestic shipments exceeded 250 million pounds in the most recent fiscal year, from September 1 through August 31 of the following year. Exports to Europe are the highest export destination and hit 200 million pounds. Exports to the Middle East topped 100 million pounds more than two times the previous year. Exports to Canada and Mexico are also up. China and Hong Kong, which had been our number one export destination, but has decreased over the last three years, are now trending up. India is our newest market, and the demand is up 476 percent, year over year.



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Pistachio trees are alternate bearing— known as “off” years or “on” years. Off-years have narrowed due to new varieties and innovative farm management practices. Currently, there are 447,000 acres of bearing pistachio trees in California. Ninety-nine percent of pistachio production is in California. A recent report by Rabobank reported that the acreage of pistachio trees has increased 7x since 2000. By 2026, the annual output will be well above one billion pounds and will likely reach two billion pounds by the end of the decade.

Because of the industry’s growth, APG commissioned and released an Economic Impact Report at the APG Annual Conference in February. The report quantified the benefits of the pistachio industry spending for goods and services, jobs created, labor income, and contributions from indirect business taxes. The study by Dennis H. Tootelian, of the Tootelian Company of Sacramento, underscores the growing importance of pistachios to the State’s economy.

Tootelian’s number-crunching reveals that the economic impact of California pistachio growers and processors, spending on farming operations, have totaled nearly \$3.5 billion annually or more than \$9.5 million per day in 2022. Total economic output, the best measure of economic activity, was calculated by Tootelian at more than \$6.4 billion, an average of more than \$17.6 million daily, impacting an array of sectors from real estate to professional services, construction, insurance, and retailing.

California’s pistachio industry helped create 55,100 jobs on a full-time equivalent basis, in 2022. Growers generated more than 27,000 jobs, and industry processor’s generated more than 28,000 jobs.

Highlights:

- Contributions to local economy – nearly \$3.5 billion spent locally.
- Generation of jobs – nearly 55,100 jobs provided.
- Creation of indirect business taxes – nearly \$231 million generated.

The Economic Impact Report is good news for our current and future pistachio growers. There is a saying among farmers that while some crops are grown for your children, pistachio trees are grown for your grandchildren. Since it takes five to seven years for an orchard to produce a saleable crop, pistachio trees have a long lifespan. Pistachio trees are planted with the next generation of farmers in mind and generations after that. An orchard is a living legacy.

American Pistachio Growers take great care to maintain the land and its environment so their orchard and the ecosystem around it will thrive well into future generations.

APG is pleased to announce the formation of a Sustainability Committee to explore how the pistachio industry can become more sustainable in this ever-changing world. With increased scrutiny regarding maximum residue levels (MRL), the maximum concentration of a pesticide residue allowed in a given country, concern over carbon emissions, improving soil health, reducing the potential for nitrates to enter the groundwater, and other environmental issues—these are some of the drivers of implementing an industry-wide sustainability program.

Additionally, consumers in certain export markets are looking increasingly into a given product’s sustainability, APG understands that the industry needs to adapt broader industry wide programs. This committee will primarily explore how pistachios can be grown sustainably without sacrificing yield and quality. APG aims to form a roadmap for growers to follow that will allow their sustainable crops to be marketed worldwide. The committee is also looking to collaborate with other research institutions to research MRL’s on pistachios and regenerative farming practices. ■





In My Opinion...



By Mark Brady, Western Marketing Manager, Plant Food Systems, Inc.
P.C.A. License #072918, C.C.A. Certificate #379337

"If reasonable logic had been used."

Remember the last significant water initiative that passed in California: It was 2013 and California was in the middle of a major drought so severe that pundits of building Temperance Flat Reservoir (1.26-million-acre feet) argued against it based upon the concept that there was no water to fill it. Where are the naysayers this year? With a price tag of \$3.1 billion, we could have built ten Temperance Flats for the current expenditure of the "High Speed Rail to Nowhere."

Common sense too often tends to elude us. Economically, almonds are in serious trouble, walnuts are seriously even worse, and the crop protection industry needs to step back and contemplate changing their approach. Let's carefully examine those practices that can save growers money while at the same time be the most efficient when considering yields/expenditures.

- **First, we can save money on application, when appropriate, through chemigation. Materials that are completely systemic such as *K-PHITE 7LP* can be delivered through sprinklers, micro-sprinklers, or drip irrigation systems, while avoiding the high cost of a foliar application. U.C. data on tree nuts shows *K-PHITE 7LP* to be equally effective in the treatment of *Alternaria* and *Botryosphaeria* when used either foliar or soil applied.**
- **Second, growers can save additionally by applying nitrogen through the irrigation system in conjunction with *K-PHITE 7LP*. Both products are highly soluble and can be easily targeted at the root zone.**
- **Third, avoid loading up the spray tank with a multiple of products when possible. We see the opportunity for a "free ride", but we often act without any data as to whether certain tank mix partners may negatively affect the efficacy of others. *K-PHITE 7LP* is a neutral pH and is taken up through the leaves rapidly. Avoid heavy use of spreaders, stickers, buffers, and less soluble phosphate products, which suppress *K-PHITE 7LP*'s highly efficient uptake.**
- **Fourth, because *K-PHITE 7LP* is extremely broad spectrum, growers can often avoid the cost of additional fungicides or bactericides being added to the tank. *K-PHITE 7LP* provides excellent control of *Phytophthora*, *Botryosphaeria*, and *Alternaria*, from one low-cost, highly-effective product. Because *K-PHITE 7LP* has multiple modes of action, resistance has not shown to be an issue, and does not require additional tank mix partners.**



Mark Brady, Western Marketing Manager, Plant Food Systems, Inc.
(559) 731-1267 mbrady@plantfoodsystems.com

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Private Applicator Certification changes

Jimmy Hook, Kings County Department of Agriculture/Masurement Standards

The Department of Pesticide Regulation (DPR) is in the process of making changes to Certification and Training regulations contained in Title 3, California Code of Regulations Division 6. The changes are intended to align the program with federal regulations found in Title 40, Code of Federal Regulations (40 CFR) Part 171. These changes will affect not only commercial applicators, but also private applicators certified through County Agricultural Commissioners statewide. The Private Applicator Certification, commonly referred to as PAC, was established in 1977 as a component of California's State Plan for Certification of Pesticide Applicators to meet United States Environmental Protection Agency requirements and allows for use of a pesticide for the purpose of producing an agricultural commodity on property owned, leased, or rented by the producer.

Regulations will require passing of a new PAC certification exam which is currently available and will at some point incorporate an additional exam for Burrowing Vertebrate Pest Fumigation for use of materials labeled as a fumigant for control of burrowing vertebrate pests. The Burrowing Vertebrate Pest Fumigation Certificate exam is expected to be released by DPR in July of this year. Current regulations allow for renewal through Continuing Education up to 120 days prior to expiration. It is expected that new regulations will require the new test to be taken and will not allow for renewal through continuing education during a phase in period based on current PAC renewal cycles. These cycles are based on the certificate holders last name as outlined below:

- Last names beginning with 'I-Q' expire December 31, 2025: These individuals must take and pass the revised examination by January 1, 2026, to maintain uninterrupted certification.
- Last names beginning with 'R-Z' expire December 31, 2023: These individuals must take and pass the revised examination by January 1, 2024, to maintain uninterrupted certification.
- Last names beginning with 'A-H' expire December 31, 2024: These individuals must take and pass the revised examination by January 1, 2025, to maintain uninterrupted certification.

Additional changes are also included. PAC holders will no longer be permitted to perform other fumigant activities which will require a commercial applicator certification such as a Qualified Applicator License (QAL) or Qualified Applicator Certificate (QAC) in the appropriate category. The new regulations will also require the minimum age to be 18 years old, anyone under 18 years old cannot handle a pesticide identified as a restricted material. Additional Handler Training Topics are being added, such as, identifying required Personal Protective Equipment (PPE) and precautionary statements about human health hazards and how to identify if a product is a Restricted Material.

DPR has released Enforcement Letter 23-03 which is in Question-and-Answer form to aid in questions on the proposed regulatory changes. DPR is currently in the process of finalizing Regulations and although the effective date is not determined expects regulations to be in place to facilitate the proposed changes. For updates on the progress and how your County is handling the transition please reach out to your local Agricultural Commissioners Office to help ensure compliance and that there is no lapse in certification.



<https://www.cdpr.ca.gov/docs/county/cacltrs/penfltrs/penf2023/202303.htm>



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NOTE: Some of the following job opportunities are abbreviated postings. To view the complete posting, please log into your membership access on our website at <https://capca.com/my-account/>

Associate Sales Manager – Northern California

Kemin Crop Technologies

Description: Kemin is seeking a Sales Manager (SM) to continue growing its market share. The SM will focus on key accounts in Northern California & will achieve growth in sales in accordance with the yearly sales budget. The SM is responsible for identifying market opportunities & developing & maintaining relationships with customers in the commercial specialty agriculture and horticulture markets.

Duties, Qualifications & Responsibilities: Full description on our website. Achieve sales & gross margin goals as defined in the yearly budget; Establish & grow strong relationships with key customers to promote product information, account planning & provide solution-based programs; Provide technical support & product information to customers; Participate in technical seminars and trade shows; Minimum of Bachelor's Degree. Preferred degree in Agriculture, Horticulture, or a comparable field of study or equivalent experience; 5+ years of previous sales experience in the agriculture or horticulture industry.

Apply: Read the full job description and apply here: <https://careers-kemin.icims.com/jobs/8580/associate-sales-manager-%e2%80%93-northern-california/job>

Regenerative Agriculture Advisor AP# 22-35 - Mariposa, CA

UC Agriculture and Natural Resources

Description: The Regenerative Systems Agricultural Advisor will implement an innovative extension education and applied research program to address issues related to sustainable agricultural systems in Mariposa, Merced and Stanislaus counties. The salary range for this Cooperative Extension Advisor position is Assistant Rank, Step I (\$71,200) to Step VI (\$94,000).

Duties, Qualifications & Responsibilities: A master's degree in agricultural sciences, agronomy, sustainable agriculture, sustainable farming systems, integrated farming systems, soil science, or a closely related field is required by the appointment date. The Advisor must be an innovator, visionary, and self-starter to pave the way for new approaches to agricultural production and the extension of research-based information to clientele. It is highly desirable for the Advisor to have experience working in organic or conventional mixed farming systems or integrated crop-livestock farming systems, and multiple cropping systems.

Apply: For full job description and to apply, visit <https://apptrkr.com/4101443>

IPM Area Advisor – Placerville, CA

UC Agriculture and Natural Resources

Description: The University of California, Agriculture and Natural Resources (UC ANR) offers a unique recruitment opportunity for a UC Cooperative Extension (UCCE) IPM Area Advisor. Salary: \$71,200 - \$94,000 (based on applicable experience and professional qualifications). Benefits: UC offers comprehensive benefits. Position Location: El Dorado County, Placerville, CA.

Duties, Qualifications & Requirements: Implement a dynamic applied research & extension outreach program. Requirements: Minimum of a Master's degree in IPM related field (entomology, plant pathology, weed science, vertebrate pest management or closely related field at time of hire). Ability and means to travel on a flexible schedule; proof of liability/property damage insurance on vehicle used. Possess valid California Driver's License. Broad understanding of IPM principles. Must possess or obtain within 1 year a Qualified Pesticide Applicator Certificate/License prior to applying/supervising the application of pesticides.

Apply: For full job description/to apply, visit: <https://apptrkr.com/4107961>. Closing Date: May 23, 2023.

Urban IPM Advisor Applied Research & Extension– Fairfield/Sacramento, CA

UC Agriculture and Natural Resources

Description: The Urban IPM Area Advisor will develop IPM strategies to effectively manage pests in urban areas while protecting public health and the environment in the Capitol Corridor Area. The salary range for this CE Advisor position is Assistant Rank, \$71,200 to \$94,000.

Duties, Qualifications & Requirements: A master's degree in, pest management, or a closely related field is required by the appointment date. The advisor should have a deep understanding of urban integrated pest management and be able to design and implement a program that leads to positive changes and impact within the urban community and beyond. The successful candidate must also have the ability to work with clientele across a wide range of socio-economic classes and ethnicities is essential. In addition to the passion and desire to pursue a career in Cooperative Extension.

Apply: To apply, visit <https://apptrkr.com/4120386>. To assure full consideration, application packets must be received by June 5, 2023. ■

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North Coast
San Diego
San Francisco
SoCal
Sutter Buttes
Tri County
Tulare-Kings
Ventura
Woodland

1



2



3



4



- 1.The CAPCA Ventura Chapter hosted its annual golf fundraiser to provide scholarships to students pursuing agriculture at Sterling Hills Golf Course in Camarillo. Pictured: Rick Harrison, Dakota Camino, Kirk Ellis.
- 2.The CAPCA NorCal Chapter hosted its first “Pizza with a PCA” event with the CSU Chico Crops and Horticulture Club.
- 3.The CAPCA Central Coast Chapter participated in the Santa Maria Spray Safe. The event brought together over 400 attendees.
- 4.The CAPCA Central Coast Chapter hosted a CE meeting followed by a trap shoot fundraiser benefiting the Santa Maria Youth Trap League.

You can find chapter information at [CAPCA.com](https://www.capca.com)

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CAPCA is working hard to build out a robust social media platform to connect with members, and to bring them additional industry-focused content.

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