

UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

UC Cooperative Extension

Glenn County

2023
ANNUAL REPORT
UC Cooperative Extension



2023 - A Year in Review

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Message from Director

The year 2023 brought additional academic programs to serve Glenn County, rounding out our local and cross-county team of academics and staff who serve our communities by bringing science-based solutions to address challenges in agriculture, natural resources, youth development, home economics, health, and nutrition. We bring the power of UC research to our community with support from the County of Glenn and local partners to deliver our programs. Our scientists and educators live and work in the communities they serve, gaining an intricate understanding of the local challenges that our county faces.

Our locally relevant applied research would be impossible without the collaboration of forward thinking and innovative cooperators, including farmers, teachers, and community members. The insight from these leaders is essential to conduct our problem-solving research. Our work would not be possible without the amazing volunteers who extend our reach through the Master Gardener Program and the 4-H Youth Development Program. Thousands of educational hours are delivered by these volunteers, who are trained by and acting as agents of the University of California.

Please enjoy this overview of our programs and reach out if we can be of assistance. We look forward to continuing to our work in Glenn County and bringing positive and productive solutions to our community.

With Sincere Thanks,



Betsy Karle
County Director



The University of
California Extension
was first introduced to
Glenn County in 1915.

Current UCCE Glenn County Staff

THE TEAM



Betsy Karle

Dairy Advisor & County Director



Curt Pierce

Irrigation & Water Resources Advisor



Becky Wheeler-Dykes

Orchard Systems & Weed Ecology Advisor



Joanna Aguilar

Nutrition Community Education Specialist



Lizzeth Mendoza

Climate Smart Agriculture Community Education Specialist



Christine Kampmann

4-H YDP Community Education Specialist



Jocelyn Alvarez

Staff Research Associate



Michal Mendoza

Volunteer Master Gardener Coordinator



Gail Harris

Office Assistant



Jamie Marron

4-H Office Technician



Lea Eddy

Office Manager/ Administrative Assistant

EMERITUS ADVISORS

William Krueger
Orchard Farm Advisor - Emeritus

Pam Geisel
Environmental Horticulture Advisor - Emeritus

Allan Fulton
Cross County Irrigation and Water Resources Advisor - Emeritus

Current UCCE Cross County Staff

CROSS COUNTY TEAM



**Luke
Milliron**

Orchard
Systems
Advisor



**Sudan
Gyawaly**

Integrated Pest
Management
Advisor



**Luis
Espino**

Rice Farming
Systems
Advisor



**Domena
Agyeman**

Agriculture and
Natural Resources
Economics
Advisor



**Ryan
Hill**

Agronomy and
Weed Sciences
Advisor



**Jaime
Ott**

Orchard
Crops
Advisor



**Josh
Davy**

Livestock, Range,
and Natural
Resources
Advisor



**Veronica
Van Cleave-
Hunt**

Community Nutrition,
Health and Food
Security Advisor



**Nicole
Marshall-
Wheeler**

4-H Youth
Development
Program
Advisor



**Breanne
Lencioni**

Nutrition
Program
Supervisor

**What we do: Turn science into solutions.
How we do it: Teamwork and collaboration.**

UC Cooperative Extension - Glenn County



Current 2024 Board of Supervisors

Grant Carmon, District 1
Monica Rossman, District 2
Tom Arnold, District 3
Jim Yoder, District 4
Vacant, District 5

UC Cooperative Extension offices serve every county in California.

Academic advisors work with farmers to implement more-efficient growing methods, solve pest management problems and develop smart water-use strategies.

Natural resources advisors conduct wildfire education and research natural resources conservation.

Nutrition educators promote nutritious eating habits and exercise for better health. Through the California 4-H Youth Development Program we engage youth to become the citizens of tomorrow.

Thousands of volunteers extend our reach through the Master Gardener, Master Food Preserver, California Naturalist, and the California 4-H Youth Development Programs.

We work in full partnership with federal, state, county, and local government agencies as well as individuals and private entities.



Agriculture and Natural Resources

Expanded Food and Nutrition Education Program (EFNEP) graduates reported an average of

\$58.10

monthly food cost savings. In one year California EFNEP families collectively saved over

\$1.5M

On food costs.

EFNEP (2020)



It is estimated that for every

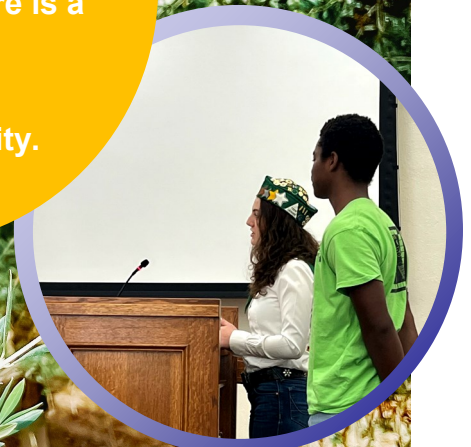
\$1

invested in agricultural research and extension there is a return of

\$20

to the community.

Alston, Anderson et al (2010)



About Us

UC Cooperative Extension Glenn County provides programs tailored to meet the needs of county residents. Extension services include exceptional 4-H and Master Gardener programs, as well as expert advice for farmers and growers.



510

Glenn County Youth in UC 4-H Youth Development Program



98

Glenn County Adult Volunteers in UC 4-H Youth Development Program



UC Master Gardener Volunteers Reached

69

Residents



8

Glenn County Master Gardener Volunteers Serving the Community



850

People reached by Healthy Food and/or Physical Activity Changes (CFHL, UC)



1,526

Youth & Adults Participating in Nutrition Education (EFNEP)



41

Peer-Reviewed and Audience-Requested Publications and Educational Materials



3

Activities Bringing Research to Policy



36

Academic-led Workshops, Field Days, and Classes with

1,244

Participants



26

News Media Program Mentions



123

Volunteers Donated

11,550

Hours Public Service — Estimated Value of

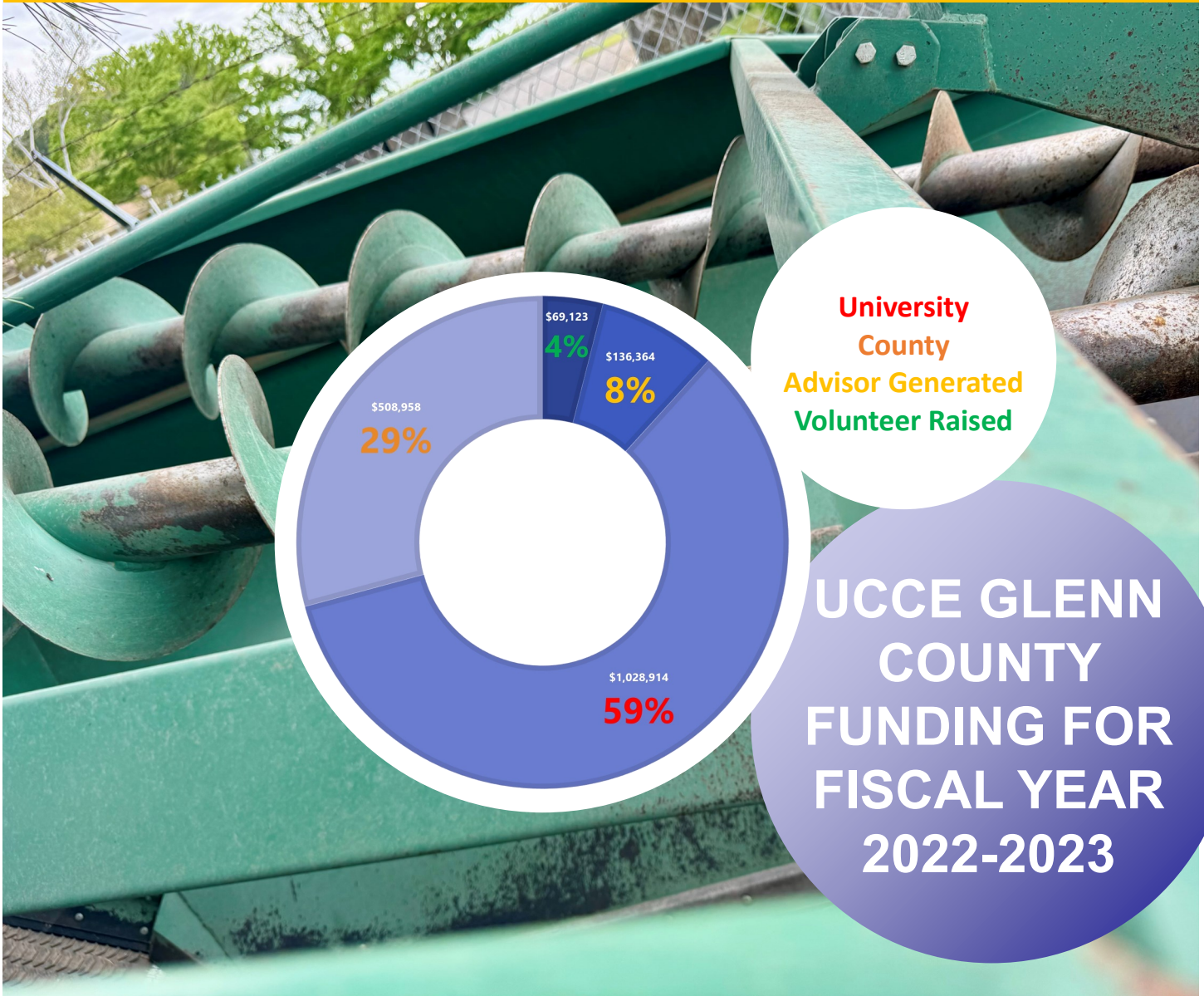
\$431,055



5,149

Total Educational Interactions with the Public

UCCE Funding



University
County
Advisor Generated
Volunteer Raised

**UCCE GLENN
COUNTY
FUNDING FOR
FISCAL YEAR
2022-2023**



\$136,364
Advisor
Generated
(grants, gifts,
etc.)



Volunteers raised
\$69,123
to support local
programs



\$1,028,914
University



\$508,958
County

Partnering for Change

Almond Board of California
American Farmland Trust
Barceloux-Tibbesart Foundation
California Climate and Agriculture Network
California Climate Investments
California Department of Food and Agriculture
California Department of Water Resources
California Milk Advisory Board
California Olive Ranch
California Pistachio Research Board
California Prune Board
California Ripe Olives
California Walnut Board
Capay Elementary
Capay Farms
CAPEX
Chico State Center for Regenerative Agriculture
Chico State University
Chico State University Research Farm
Community Alliance with Family Farmers
Country Pumpkins
County of Glenn
Crain Farms
Erick Nielsen Enterprises, Inc.
Glenn & Tehama County Resource Conservation Districts
Glenn County Agriculture Department
Glenn County Fairgrounds
Glenn County Farm Bureau
Glenn County Office of Education
Glenn County Olive Fruit Pest Management District
Hamilton City Adult School
Honeybee Discovery Center & Museum
Lake Elementary
Lindauer River Ranch
Mill Street Elementary
Murdock Elementary School
Natural Resource Conservation Service
Olive Oil Commission of California
Organic Fertilizer Association of California

Orland Free Library
Orland High School
Princeton Elementary School
Princeton Jr./Sr. High School
Sunsweet Growers, Inc.
Tehama County Mobile Irrigation Lab
Willows Intermediate School
Willows Public Library

PARTNERS

UC ANR builds partnerships based on deep and long-lasting relationships with local, state and federal governments, community-based organizations, schools, nonprofits and private industry. UC Cooperative Extension Glenn County is fortunate to work with many partners in our community.



4-H Youth Development Program UCCE Glenn County

Program Delivery

In 2023, Glenn County 4-H was filled with many community service opportunities, such as Fair Clean-up Days, the Corn Maze Clean-up, keeping our community warm with more than 80 coats donated for the Coats-for-Kids program, canned food collections, and holiday cards to the elderly in the community.

Our program was able to reach youth with various interests throughout the year. With the leadership of more than 90 Adult Volunteers, Glenn County 4-H offered hands-on educational experiences for our youth through projects in livestock, small animals, baking, arts and crafts, STEM, Legos, and sport shooting. Glenn County 4-H ended the program year with 4-H Overnight Camp held at Camp Tehama. With a vision supported by the UC Cooperative Extension and Adult Volunteers, we are fulfilling the 4-H Motto "To Make the Best Better."

Christine Kampmann

4-H Community Education Specialist
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Nicole Marshall-Wheeler

4-H Youth Development Advisor
Email nmarshall@ucanr.edu



GLENN COUNTY 4-H 2023 SNAPSHOT

- 7 Community Clubs
- 1 Overnight Camp Program -
(including 51 Youth Participants)
- 4 Group Enrollment Activities
- (including 114 Youth Participants)
- 383 Youth Members**
- 98 Adult Volunteers**



STONEY CREEK 4-H CLUB



Website https://ceglenn.ucanr.edu/Glenn_County_4-H_Program_286/ Facebook <https://www.facebook.com/GlennCounty4H/> Newsletters https://ceglenn.ucanr.edu/Glenn_County_4-H_Program_286/Newsletters_839/

Master Gardener Program UCCE Glenn County

Program Delivery

In 2023, the Glenn County Master Gardener Program goals were to increase visibility of the program providing research-based home gardening information and to recruit new members for the 2024 Master Gardener training program. With this in mind, the program distributed recruitment brochures throughout the county and provided two informational sessions at the Willows and the Orland libraries.

The other activities the program engaged in during the year was the weekly plant clinic. The program participated in a variety of activities throughout the year such as the Honeybee Discovery Center Plant Sale, the Orland Chamber of Commerce Friday Night Farmer's Market, National Night Out, and the Friendly Garden Plant Sale.

The program developed a quarterly newsletter that was distributed to approximately 300 individuals in the county and will evaluate in the coming year other methods of distribution. Also, in 2023 the program collaborated with 4-H by developing a gardening class for children and taught composting in collaboration with the Cal Fresh Healthy Living Program.

In 2024, the program will continue to focus on developing and seeking other teaching opportunities to provide home gardening in the community and in the Master Gardener Demonstration Garden.

Glenn County Master Gardener Volunteer Program

Email anrmgglenn@ucanr.edu



Website <https://ucanr.edu/sites/glennmg/> Facebook <https://www.facebook.com/ucceglenn>

Nutrition Education Program UCCE Glenn County

Program Delivery

The CalFresh Healthy Living in 2023 utilized multiple delivery methods and intervention strategies to reach elementary school students, their parents, school administrators, school educators, and community members. Glenn County students were able to participate in CalFresh Healthy Living activities, programming, and education. The school-based programming extends from the classroom to improving access and quality of physical activity through community events, school gardens, and school wellness committee work.

Our Community Education Specialist enrolled a new participating school in Glenn County and worked on an outdoor playground stenciling project that inspires students to be active. Monthly direct education lessons have been delivered to promote nutritional messages and support the Coordinated Approach to Child Health (CATCH) curriculum objectives.

Mill Street Elementary got to plant seeds in their school gardens in late November and harvested some amazing radishes. Students love the experience of planting and learning about sustaining their plants in a fun way!

Joanna Aguilar

Nutrition Community Education Specialist
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Breanne Lencioni

Nutrition Program Supervisor
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Veronica Van Cleave-Hunt

Community Nutrition, Health and Food Security Advisor
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Website https://cebutte.ucanr.edu/Youth_FSNEP/ Facebook <https://www.facebook.com/CFHL.UCCE.ButteCo>

Climate Smart Agriculture Program UCCE Glenn County

Program Delivery

The Climate Smart Agriculture Program was very busy in 2023 with the California Department of Agriculture (CDFA) programs. Several outreach events took place to promote the State Water Efficiency and Enhancement Program (SWEET), Healthy Soils Program (HSP), and Alternative Manure Management Program (AMMP). These outreach efforts took place for Glenn County growers and others throughout the state in preparation for the solicitation of the programs opening.

Our community education specialist attended several workshops, conferences, and field days to expand her knowledge on the practices that can be used in conjunction with the CDFA programs and other funding opportunities that are available for farmers and ranchers in the county.

Furthermore, one on one application assistance was provided in Spanish and English to multiple growers in preparation for the solicitations opening and also including site visits. In 2023, the most common practices of interest were compost application, cover crops, and whole orchard recycling to improve soil health and sequester carbon. As new funding opportunities open, we have seen more interest in how to successfully stack practices on-farm.

Lizzeth Mendoza

Climate Smart Agriculture Community Education Specialist
Email lthmendoza@ucanr.edu



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Website https://ceglenn.ucanr.edu/Climate_Smart_Agriculture/ CDFA Grant Website <https://www.cdfa.ca.gov/oefi/>

Dairy Program UCCE Glenn County

Program Delivery

The dairy program continues to bring research and educational programming on antimicrobial stewardship, animal health and well-being, and environmental stewardship to north state dairy producers in 2023. Research activities included improving colostrum quality and calf health, implementation of manure management practices, and decreasing antibiotic resistance.

Results from studies were presented at the Golden State Dairy Management Conference, World Ag Expo, and in various industry publications. Contributions to scholarly literature include publications discussing on-farm training strategies to improve antibiotic stewardship, health of pre-weaned calves, and antimicrobial resistance in various cattle populations. A hands-on workshop gave participants an opportunity to practice a corneal nerve block to reduce animal stress during the disbudding process.

Betsy Karle

Dairy Advisor
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YOLO, SISKIYOU,
SACRAMENTO &
SOLANO
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Website <https://ceglenn.ucanr.edu/Dairy/> Facebook <https://www.facebook.com/uccedairy>

Newsletters https://ceglenn.ucanr.edu/news_408/Dairy_Newsletter/

Irrigation and Water Resources Program UCCE Glenn County

Program Delivery

Following two good water years and the addition of our new Glenn County-based Orchard Systems Advisor, the Irrigation and Water Resources program has been able to provide increased support to affiliated stakeholders on SGMA implementation and new technical support grants while continuing collaboration on necessary irrigation research in almond, olive, and walnut. Several new projects are also in development that would bring training opportunities in irrigation management, as well as one looking to study the effects of different irrigation regimes on the production efficiencies of select almond rootstock/scion combinations.

As always, the off-season months were dominated by meetings and conferences, including the very successful 2024 North Valley Nut Conference, which we were fortunate enough to have the opportunity to begin co-hosting with Butte County Orchards Systems Advisor Luke Milliron. In addition, presentations on irrigation management are being regularly offered at local grower meetings and Master Gardener trainings, with more in-field demonstrations set to be provided during the production season.

Curt Pierce

Area Irrigation and Water Resources Advisor
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Website https://ceglenn.ucanr.edu/Irrigation_and_Water_Resources/ Facebook <https://www.facebook.com/ucceglenn/>
Newsletters https://ceglenn.ucanr.edu/news_408/Orchard_Facts/

Orchard Systems & Weed Ecology Program UCCE Glenn County

Program Delivery

Becky Wheeler-Dykes joined the UCCE Glenn team as the new Orchard Systems and Weed Ecology Farm Advisor in May of 2023. Activities as the program is established have largely included building relationships in the community by attending farm calls with local growers, connecting with processors and commodity boards, and joining regional meetings in the ag community. Several articles were contributed to the North Sacramento Valley tree crop newsletters covering almonds, walnuts, and prunes. Multiple large publications reproduced these articles for statewide distribution, as well as hosting a podcast highlighting our research.

Research activities include projects on optimizing mechanical harvest of table olives, improving the timing of mechanical thinning of prunes, evaluating new walnut and almond varieties, and exploring new management tactics for olive knot. Findings from 2023 will inform new projects to be established in 2024.

Becky Wheeler-Dykes

Orchard Systems & Weed Ecology Advisor
Email bawheeler@ucanr.edu
Text 530-884-9313



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Website https://ceglenn.ucanr.edu/Irrigation_and_Water_Resources/ Facebook <https://www.facebook.com/ucceglenn/>
Newsletters https://ceglenn.ucanr.edu/news_408/Orchard_Facts/

Orchard Crops Program UCCE Cross County

Program Delivery

As a new orchard systems advisor covering Glenn County, I spent 2023 meeting growers, PCAs, and farm managers to learn about their operations and their research and extension needs. I conducted grower meetings and field consultations covering a wide range of topics, from irrigation to disease management to pruning.

In collaboration with other advisors, I conducted a small research trial on thinning prune crops before and during bloom, especially relevant in a year with huge crops like 2023. With campus collaborators, I worked on a sucker control trial in prune, collecting the data needed for an IR4 registration for a new chemical tool for sucker management.

Jamie Ott

Cross County Orchard Crops Advisor
Located in Tehama County
Email njott@ucanr.edu



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Website https://ceteahama.ucanr.edu/Orchard_Crops/ Facebook <https://www.facebook.com/ucceteahama>

Newsletters https://ceteahama.ucanr.edu/Newsletters_510/

Orchard Systems Program UCCE Cross County

Program Delivery

Orchard research and education was critical in 2023, a difficult economic year for orchard farmers. The year started with the popular North Valley Nut Conference in Chico, discussing cutting edge research in almond and walnut production. As the orchard season got underway, my program helped address some of the numerous problems growers faced, including bacterial blast/canker damage in almonds. Walnut growers, although experiencing better weather conditions than the early blooming almonds, continued to face difficulties farming with a low crop price and high farming costs. My program worked individually with growers developing creative and cost-effective solutions to almond and walnut production challenges.

Luke Milliron

Cross County Orchard Systems Advisor
Located in Butte County
Email lmilliron@ucanr.edu

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Website www.sacvalleyorchards.com Twitter <https://twitter.com/MillironLuke> Podcast <https://www.growingthevalley podcast.com/> Newsletters http://ceglenn.ucanr.edu/news_408/Orchard_Facts/

Rice Farming Systems Program UCCE Cross County

Program Delivery

During 2023, my research focused on management of tadpole shrimp, armyworms, and rice diseases. I also collaborated with other UCCE academics in projects related to rice varieties, weedy rice, and alternative management systems. We are investigating the viability of a reduced-tillage system following a fallow year and several no-tillage systems. In addition to co-organizing our winter grower meetings, this year I organized an organic rice meeting to assess the research and outreach needs of organic growers. Also, I worked with the UCCE rice team to offer a two-day Rice Production Workshop back in March and update the Rice Production Workshop Manual, which is available for free on the UC Rice website.

Luis Espino

Cross County Orchard Systems Advisor
Located in Butte County
Email laespino@ucanr.edu



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Website <http://rice.ucanr.edu/> Facebook <https://www.facebook.com/ucrice>

Newsletters https://cebutte.ucanr.edu/news_154/Agriculture_Natural_Resources/Rice_Leaf/

Livestock, Range, and Natural Resources Program UCCE Cross County

Program Delivery

Livestock production includes animal health where research has targeted areas such as pink eye treatment and prevention, anaplasmosis prevention, mineral supplementation, and deworming strategies. In addition, economical increased weight gain in cattle is targeted. Examples include multiple years of developing methods of monensin intake in loose salt mineral supplements, which increases efficiency of forage digestion. Additional research has found low-cost forage supplementation methods for cattle during drought.

Range and pasture research includes weed control that helps create a better forage resource. Rangeland weed control has focused on medusahead and barb goatgrass. Pasture weed control has targeted smutgrass and slender aster. Other research seeks to improve the actual forage present on pasture and rangeland. One project on valley irrigated pasture seeks to blend forage grasses with differing growing seasons to help alleviate winter dormancy, with a goal of increasing both summer and winter forage production. On rangeland, planting trials determine an appropriate site-specific forage source based on individual operational needs and management constraints.

Projects also include natural resource management. This includes grazing strategies to manipulate rangeland species composition, blue oak woodland regeneration techniques, and rangeland and pasture plant identification.



Josh Davy

Cross County
Livestock, Range, and Pasture Advisor
Located in Tehama County -
Email jsdavy@ucanr.edu



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Website https://cetehama.ucanr.edu/Livestock_and_Range_Management/ Facebook <https://www.facebook.com/uccetehama> Newsletters https://cetehama.ucanr.edu/Newsletters_510/

Integrated Pest Management Program UCCE Cross County

Program Delivery

The integrated pest management (IPM) program continued providing IPM educational services through newsletter articles, one-on-one farm calls, and presentations at grower meetings throughout the Sacramento Valley. This year, the program started monitoring the populations of important pests of almonds, walnuts, and peaches to track their development and provided the degree day information to his clientele. The IPM research efforts in 2023 involved surveying the web-spinning spider mite populations and evaluating the mating disruption of navel orangeworms in walnuts. Sudan intends to share the results of these studies in upcoming grower meetings.

Sudan Gyawaly

Cross County Integrated Pest Management Advisor
Located in Butte County
Email sgyawaly@ucanr.edu



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IPM Website <https://ipm.ucanr.edu/>

Agronomy & Weed Sciences Program UCCE Cross County

Program Delivery

Ryan spent his first year as an advisor meeting growers and stakeholders, learning about local weed management challenges, giving extension presentations, planning future projects, and conducting applied research. Questions received from the community have occasionally turned into research projects and some have already yielded results. Projects of this sort have involved the use of experimental and commercially available herbicides for control of Johnsongrass in walnut orchards, control of Italian ryegrass in grain fields, delivery of herbicide through microsprinklers in orchards, and preemergent control of European heliotrope in vegetable farms.

This year has also seen progress toward the start of a Tehama County Master Gardeners program under Ryan's efforts. The first trainees for the program will begin classes this fall.

Ryan has been collaborating with orchard advisors Jaime Ott and Becky Wheeler-Dykes on research projects addressing herbicide-induced trunk injury in orchard crops and he is intending for this work to grow in scope over the coming year. He plans to install a variety trial for perennial forage legumes in Tehama County in order to identify candidates for dryland plantings. Lastly, due to grower interest in electrical weed control, Ryan is coordinating local research and demonstration projects using specialized equipment in collaboration with UC Davis faculty.

Ryan Hill

Cross County Agronomy & Weed Sciences Advisor
Located in Tehama County
Email rjahill@ucanr.edu




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Website https://cetehama.ucanr.edu/Weed_Science_-_Agronomy/ Facebook <https://www.facebook.com/uccetehama>


Special Thanks to our Previous Donors

Collette Family
4M Ranch: Elk Creek Ca
Alex Vereschagin Jr.
Arne and Lynn Gustafson
Barceloux Family Orchards
Becky and Steve Gruenwald
Bill and Shirley Ceccon
Bonnema Ranch
Brad and Kim Mc Geoghegan
Brint and Tanya Foster
Bruce King
C.F. Koehnen & Sons, Inc.
California 4-H Foundation
Carl and Connie Funke
Chris Johnson
Cilker Orchards Management Corp
Cliff and Sue Stone

Connie Hanks
CPR Farms Inc.
Craig Bailey
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David and Nancy DeMello
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Corporon Law Office
J. William Sites
Jason and Dee Osburn
Jerry, Daniel and Irene Skala
Jim and Diane Jones



Plus, many
donors wishing
to remain
anonymous.



**We are grateful
for the 2022-2023
donors whose
generosity made
our work
possible.**

Special Thanks to our Previous Donors

John Amaro
John and Barbara McCracken
John Roller
Joy and Joseph Shanley
Keith and Judy Corum
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Mike and Laurie Murray
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Timothy and Tracy Sailsbery
Ute Wirth
William and Dianne Krueger
Yvonne Koehnen In Memory of Eric Mussen
Zane Amaro Farms



UC ANR Fun Facts

78%

of alumni say
4-H helped them
succeed in their
work and career

4-H (2020)

4-H participants
are

1.8x

more likely to
graduate with a
Bachelor's degree
UC 4-H (2021)



UC Climate Smart
Agriculture Educators
helped growers statewide
reduce greenhouse gas
emissions equivalent
to removing

7,000

cars from the road
Based on CDFA calculators
(SWEEP and HSP 2021)

UC ANR Fun Facts



The value of adoption of the UC Integrated Pest Management Program recommendations is **\$323-500M** to California agriculture
Giannini Foundation of Agricultural Economics (2016)

54%

of UC Master Gardener event participants across the state applied gardening practices that reduced food loss
UC Master Gardener Program (2022)

UC Cooperative Extension Glenn County

ANNUAL REPORT 2023

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University of California
Agriculture and Natural
Resources (UC ANR) brings
the power of UC research in
agriculture, natural
resources, nutrition and
youth development to local
communities to improve the
lives of all Californians.

Our Cooperative Extension
(UCCE) county-based
advisors, community
educators, and campus-
based academics work as
teams to bring practical,
trusted, science-based
solutions to our state. We are
problem solvers, catalysts,
collaborators, educators, and
stewards of the land, living in
the communities we serve.



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