



UNIVERSITY OF CALIFORNIA

Agriculture and Natural Resources

UC Cooperative Extension-Glenn County

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Glenn County Cooperative Extension Staff

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County Director, Dairy
Advisor

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Irrigation & Water
Resources Advisor

**Becky Wheeler-
Dykes**
Orchard Systems &
Weed Ecology Advisor

Lizzeth Mendoza
Climate Smart
Agriculture Community
Education Specialist

Christine Kampmann
4-H Community
Education Specialist

Joanna Aguilar
Nutrition Community
Education Specialist

Lea Eddy
Office Manager

Jamie Marron
4-H Office Technician

Gail Harris
Office Assistant

Bill Krueger
Orchards Advisor,
Emeritus

November 13, 2023

Dear Friends:

Please accept our heartfelt thanks for your previous support of our programs. At UC Cooperative Extension in Glenn County, we focus on providing and identifying the best **science-based solutions** to our most pressing local issues. With your donation, **you can help us increase our reach, enhance our programming, and better serve our community** when public funding falls short.

Previous donations have funded 4-H activities, ground-breaking agricultural research projects, distribution of educational materials and more. As our staff continues to grow, we are thrilled to **bring more resources to our community** as we work to support agriculture, natural resources, youth development, and community health. Please see the inserts for additional information about our program activities and impacts.

Your support of Glenn County Cooperative Extension through your gifts, volunteering, and advocacy provides the resources we need to continue to identify and address the challenges we all face. Your **100% tax-deductible donation** makes our community better.

We sincerely appreciate any assistance you can offer, and we thank you in advance for your support. A return envelope is enclosed, or you can donate online by visiting: <https://donate.ucanr.edu/?county=Glenn>.

We look forward to our continued work with you in our community.

Sincerely,

Betsy Karle
County Director

**Every dollar you invest in UC Cooperative Extension –
Glenn County will remain in our county!**

Again this year, we are partnering with the Butte Ag Foundation Big Harvest Campaign! Each **Big Harvest** contribution received **by December 31, 2023, will receive an additional cash match!** You may donate to UC Cooperative Extension- **Glenn County** online at: <https://www.thebigharvest.org/donate>.



Special Thanks to our Previous Donors

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

BRONZE (\$1-99)

Collette Family
Connie Hanks
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Patricia Bruce
Powell Apiaries
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William and Dianne Krueger
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GOLD (\$250-499)

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4M Ranch: Elk Creek Ca
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Becky and Steve Gruenwald
C.F. Koehnen & Sons, Inc.
California 4-H Foundation



THANK YOU!

We have made every effort to provide a complete list of donors, honoring requests for anonymity. We apologize for any omissions.

Yes, I want to invest in UCCE Glenn County!

This donation is to support the research and educational programs of the University of California Cooperative Extension in Glenn County. We will provide you with an official University acceptance letter for your income tax records.

Enclosed is my donation for \$ _____
BRONZE (<\$100) SILVER (\$100-249) GOLD (\$250-499) DIAMOND (\$500-999) PLATINUM (\$1000+)

Please make checks payable to "UC Regents"

You can give online by visiting cglenn.ucanr.edu and clicking on the "give" button in the upper right-hand corner of the website OR visit <https://www.thebigharvest.org/donate> OR scan the QR code with your mobile device; it's a quick, easy and secure way to help Glenn County Cooperative Extension programs!



SCAN HERE

Name _____

Name(s) as you wish to be recognized _____

Address _____

City _____ State _____ Zip _____

☐ Please keep my donation anonymous!

Email _____

Phone _____ Signature _____

(Required for all donations)

All gifts are tax-deductible as prescribed by law. The information you provide will be used for university business and will not be released unless required by law.

**Please allocate
my gift to:**

- ☐ Area of Greatest Need
- ☐ 4-H Youth Development Program
- ☐ Master Gardener Program
- ☐ Other Program (please specify): _____

Yes! I'd like to learn more.

- ◇ Almonds
- ◇ Dairy
- ◇ Irrigation & Water Resources
- ◇ Walnut
- ◇ Rice
- ◇ 4-H Youth Development
- ◇ Prune
- ◇ Livestock & Range
- ◇ Nutrition Education
- ◇ Olive
- ◇ Master Gardeners
- ◇ Weed Science
- ◇ Climate Smart Agriculture

Please take a moment and tell us which UCCE newsletters you would like to receive.

To sign up online, visit:

<https://ucanr.edu/u.cfm?ids=9936>,

or scan the QR code.



Please return this form to: UC Cooperative Extension – Glenn County, P.O. Box 697, Orland, CA 95963

UC Cooperative Extension Glenn County

2023 Program Update



Dairy Advisor & County Director: *Betsy Karle*

The dairy program has been evaluating manure management technologies, dairy calf management and health, and disease prevention and treatment strategies that improve antibiotic stewardship. Results from studies were presented at local meetings, the World Ag Expo, and in various industry publications, and papers were published in scientific journals. Heading into 2024- economic and feasibility analyses of management practices that are supported by research will be a priority.

Irrigation & Water Resources Advisor: *Curt Pierce*

After a wet start to 2023, the irrigation and water resources program has expanded on the precision irrigation research and education efforts initiated in previous years. Aquifer recharge, in both agricultural and municipal settings, water quality, and groundwater protection efforts have together become growing areas of interest. With continued weather extremes appearing more and more likely, new research into these areas is needed to help local producers adapt to ever-changing conditions. In addition, we're developing expanded educational opportunities, including a Master Irrigator certification program, to bring the most up-to-date information and guidance to our growers and other local stakeholders.



Orchard Systems & Weed Ecology Advisor: *Becky Wheeler-Dykes*

The orchard systems and weed ecology program is focusing on establishing relationships with local growers, processors, and community members. Becky has attended many local extension and professional meetings and assisted with numerous farm calls to help address pressing issues facing growers in Glenn, Tehama, and Colusa counties. We look forward to bringing several new extension events to Glenn in 2024, including Olive Day and a monthly meeting to discuss current issues in the field. Becky started with UC ANR in May of 2023.

Nutrition Community Education Specialist: *Joanna Aguilar* & *Community Nutrition, Health and Food Security Advisor: Veronica Van Cleave-Hunt*

The UC Program CalFresh Healthy Living, and Glenn County Nutrition Educator Joanna Aguilar, are working with elementary students, offering nutrition, physical activity, and gardening education, along with monthly tastings to expose students to new and healthy foods. The CalFresh Healthy Living, UC Program will be incorporating Smarter Lunchroom Movement initiatives to reinforce the farm-to-table model and encourage students to eat their local foods that can help with a healthier lifestyle. Veronica Van Cleave-Hunt joined UCCE as a Community Nutrition, Health, and Food Security Advisor in July 2023, but began working for the CalFresh Healthy Living, UCCE Butte Cluster program at the beginning of 2019.



Climate Smart Agriculture Community Education Specialist: *Lizzeth Mendoza*

The Climate Smart Agriculture team, funded through the California Department of Food and Agriculture (CDFA), provides technical assistance to local farmers and ranchers who are interested in applying for the CDFA Healthy Soils Program (HSP), Alternative Manure Management Program (AMMP) and State Water Efficiency and Enhancement Program (SWEEP). In 2022, the team submitted 5 AMMP applications and is preparing for the 2023 HSP and SWEEP solicitations and assisting previous awardees with project implementation.

4-H Youth Development Community Education Specialist: *Christine Kampmann* & 4-H Youth Development Advisor: *Nicole Marshall-Wheeler*

With an increase in enrollment of more than 75 new youth members, over 260 returning members, and new project opportunities, Glenn County 4-H is off to a great start for the club programming model. Thanks to the 2023 Expanded Learning Mini-Grant funded by UC ANR, the Glenn County 4-H program is supported in cultivating a new partnership with the Orland Unified School District. It will provide Youth Experiences in Science curriculum and staff training to their Spark-Afterschool program.



Master Gardener Program Volunteers

The Master Gardener's mission is "to extend research-based knowledge and information on home horticulture, pest management, and sustainable landscaping practices to the residents of California." The UCCE Glenn County Master Gardener program developed its demonstration garden at the UCCE office in Orland to attract pollinators and Monarch butterflies. A weekly Plant Clinic is open to the public. The program collaborates with other community entities and public events to share the program's research-based home gardening practices and information.



Rice Farming Systems Advisor: *Luis Espino (Butte County)*

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

Orchard Systems Advisor: *Luke Milliron (Butte County)*

Orchard research and education was critical in 2023, a difficult year for orchard farmers. The Butte, Glenn, and Tehama Orchards program continues to provide timely research and education to growers during these difficult economic times. Research included monitoring walnut quality with area advisors (pictured) and planting a fourth-generation almond variety trial at the Chico State Farm.



Integrated Pest Management (IPM) Advisor: *Sudan Gyawaly (Butte County)*

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, Sudan's program started monitoring the populations of important pests of almonds, walnuts, and peaches to track their development and provide the degree day information to 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.

Agronomy & Weed Science Advisor: *Ryan Hill (Tehama County)*

A few months on the job have already yielded insights into where potential advancements can be made in weed management for the benefit of Glenn County growers. Priorities for research and education in agronomic crop production and weed management will continue to be identified through meetings with growers, PCAs, researchers, and other stakeholders in the coming months. Projects are already underway to develop new weed management methods, register new herbicides, and demonstrate best practices. Ryan started with UC ANR in August of 2023.



Livestock, Range, and Natural Resources Advisor: *Josh Davy (Tehama County)*

The livestock and range program has been working in many different areas of research. In irrigated pasture, planting strategies have been trialed to provide year-round forage and increase summer productivity. Animal health projects have worked on topics such as pink eye prevention and treatment, anaplasmosis prevalence, and deworming strategies for cows, yearlings, and calves. Production projects include cost-effective forage supplementation, mineral supplementation, economic ionophore delivery methods, and increasing rangeland forage production. All projects seek practical methods to increase beef production income.



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Scan the QR code and complete the survey to sign up and receive our program newsletters.

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Jamie Marron- 4-H Office Technician

Gail Harris- Office Assistant

Emeritus Advisor

Bill Krueger- Orchards Advisor

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UC Cooperative Extension

UC Cooperative Extension Glenn County 2022

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.



Glenn County 4-H YDP Staff and Youth Members during National 4-H Week Proclamation to the Glenn County Board of Supervisors.



108

Volunteers
Donated

9,025

Hours Public
Service —

\$320,929



3,757

Total
Educational
Interactions
with the
Public



72

Peer-
Reviewed
and Audience
-Requested
Publications
and
Educational
Materials



13

Activities
Bringing
Research to
Policy



33

Academic-led
Workshops,
Field Days,
and Classes
with

1,313

Participants



24

News Media
Program
Mentions



510

Glenn County
Youth in
UC 4-H Youth
Development



98

Glenn County
Adult
Volunteers in
UC 4-H Youth
Development



UC Master
Gardener
Volunteers
Reached

29



10

Glenn County
Master
Gardener
Volunteers
Serving the
Community



1,020

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



9,129

Youth &
Adults
Participating
in Nutrition
Education
(EFNEP)



UCCE Glenn

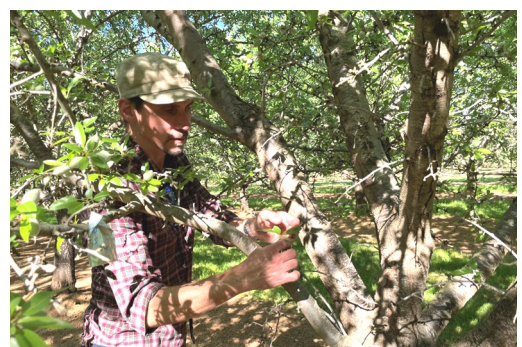
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Partnering for Change

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.

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
Glenn & Tehama County Resource Conservation Districts
Glenn County Agriculture Department
Glenn County Fairgrounds
Glenn County Farm Bureau
Glenn County Office of Education
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
Tehama County Mobile Irrigation Lab
Willows Intermediate School
Willows Public Library
Willows Tractor Supply

UCCE Funding



\$615,513
University



\$390,346
County



\$124,727
Advisor
Generated
(grants, gifts,
etc.)



Volunteers raised
\$60,157
to support local
programs

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)

Leveraging the Power of the UC System



It's important to have local resources in our community who are leaders in industry research. They can build on their research and experience to help us find solutions to our local challenges. I'm thankful we have that access and opportunity here in Glenn County with our UC ANR team.

— Shannon Douglass, Douglass Ranch

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