

**UC
CE**

University of California
Agriculture and Natural Resources
Cooperative Extension

COOPERATIVE EXTENSION GLENN COUNTY ANNUAL REPORT



2018-19

UC University of California
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Natural Resources
Cooperative Extension · Glenn County





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INTRODUCTION TO UC ANR

WHO ARE WE?

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 and campus-based specialists work as teams to bring practical, trusted, science-based answers to our state. We are problem solvers, catalysts, collaborators, educators, and stewards of the land, living in the communities we serve.

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.

It is estimated that for every **\$1** invested in agricultural research and extension there is a return of **\$20** to the community



170

volunteers donated

13,965

hours public service

— estimated value of

\$353,873



8,105

total education interactions with the public



42

peer-reviewed and audience-requested publications



48

academic-led workshops, field days, and classes with **2,274** participants



481

Youth in UC 4-H Youth Development Program



UC Master

Gardener volunteers reached

103

residents



852

people reached by healthy food and/or physical activity changes (CFHL, UC)



\$940,952

University Support



\$275,398

County Support



\$215,659

Advisor generated (grants, gifts, other, etc.)



Volunteers raised **\$16,599** to support local programs

LEVERAGING THE POWER OF THE UC SYSTEM

UC ANR offers local expertise with a practical mindset and applied research. They are people who can look directly at a problem and work together with the community and campus-based experts on a solution.

-Don Bransford, President, Bransford Farms

Delivering UC research in agriculture, natural resources, nutrition and youth development

UC ANR achieves its land grant mission through the work of several hundred UC Cooperative Extension academics conducting research at six UC campuses, nine Research and Extension Centers (RECs) and serving all 58 counties from 70+ locations throughout the state. By working and living among those we serve, UC ANR expands UC's reach to engage all people and communities in California ensuring equal access to the UC system. In many regions, UC ANR provides access to UC resources for residents who may never set foot on a UC campus.

Improving the lives of all Californians

Our statewide network of UC Cooperative Extension academics connects with research faculty to support healthy communities with science-based strategies and technologies. These efforts safeguard healthy and affordable food, provide clean drinking water, support the economic vitality of our state, protect natural resources, prevent wildfires, improve college readiness, develop future leaders through 4-H, prevent childhood obesity, deliver culturally

relevant materials and workshops, and develop proactive policies to increase diversity and inclusiveness. UC ANR delivers its mission through 11 statewide programs including 4-H Youth Development, UC Master Gardeners, UC Integrated Pest Management, and the Expanded Food and Nutrition Education Program. UC ANR's Nutrition Policy Institute is integral to developing research-based public policies related to nutrition and physical activity, and our California Institute for Water Resources is the state's hub that develops and communicates research-based solutions to water resources challenges.

"I was given some information regarding the SWEEP grant about a week before the deadline...Dana was very knowledgeable & able to get answers specific to my project through contacts at the SWEEP Department...Needless to say, I couldn't have completed the process without her knowledge & diligence. Dana was pleasant, patient and a pleasure to work with." -Erik Behring Grower Orland, CA

"I have had the pleasure of working with Dana Brady during the SWEEP grant and Healthy Soils Program. Dana's professional approach and attention to detail was key to finishing these grants in a timely manner. Dana is truly an asset to this program with her knowledge and agriculture background." -Donald Schroer, Grower Orland, CA



PROTECTING CALIFORNIA'S NATURAL RESOURCES



UC ANR conducts research to understand and develop solutions to increase the resilience of agriculture, communities, and natural ecosystems to extreme weather and climate change. Our programs assist communities, farmers, and ranchers in implementing climate-smart soil and water management practices, reducing greenhouse gas emissions and expanding public awareness of climate risks and effective adaptation strategies. Our work leads to a safer, more climate-resilient California.

Protected and conserved soil quality

- \$315,175.84 funded from CDFA via grants requested by our Community Education Specialist to improve soil management and encourage ecosystem health through cover crop planting and compost application.
- 6 Farms and Orchards intend to introduce a cover crop mix, "Seeds for Bees" and woody plants to restore habitat loss for native pollinators like Leaf-cutter, bumbles, Mason, Miner, digger, carpenter bees. Diversifying the food source for pollinators, farmers will experience less dependency on outside inputs for the crop production. As the hedge row sequesters carbon it also absorbs nutrients and helps retain water that would have run off taking top soil with it, all as its creating biomass for the soil's food web.

Increased ecological sustainability of agriculture, landscapes, and forestry

- Two varieties of rice (M-210 and Calaroma-201) that were included in a trial program were released for commercial production. The variety trials results helped growers select varieties better adapted to their location. Approximately 95% of California's rice acreage is planted to varieties that have been evaluated in the variety trials, indicating very high levels of adoption of improved varieties. These varieties have allowed growers to maintain high productivity, averaging 8,500 lbs/acre in the past ten years, which is 20% higher than average yields in other US states. Good yields and quality translate into improve economic returns for the rice industry. (Luis Espino, Rice Advisor)
- UC ANR's research on armyworm, another pest of rice, was fundamental to securing an emergency registration of an effective insecticide. This insecticide was used in 30,000 acres in 2018, resulting in armyworm control, and avoiding yield losses than can be as high as 20%. (Luis Espino, Rice Advisor)

BUILDING CLIMATE-RESILIENT COMMUNITIES AND ECOSYSTEMS



Through outreach and education, participants learn to adopt recommended practices, such as rangeland management, sustainable use of forest and wildland resources, protection against fire, and water conservation. These measures contribute to improving air, soil, and water quality while also protecting wildlife and plant habitat. Increased ecological sustainability of agriculture, forestry, and urban landscapes helps California realize the many benefits of the state's rich and diverse natural resources.

Improved water-use efficiency

- 800 agricultural water users intend to use water flow meters to help them comply with agricultural regulations. (Allan Fulton, Water & Irrigation Advisor)
- Four growers collectively with 3,500 acres of almonds and walnuts adopted zone irrigation systems in orchards with highly variable soils. (Allan Fulton, Water & Irrigation Advisor)
- Information shared with 175 farm managers in the northern San Joaquin Valley led to adoption of recommended irrigation or other water and soil management practices. Managers and consultant are now incorporating orchard stress indicators measured with a pressure chamber. (Allan Fulton, Water & Irrigation Advisor)
- Because of hands-on field meetings, 88% of respondents reported an increased likelihood to adopt pressure chamber readings. (Luke Milliron, Orchards Advisor)
- 17 surveyed participants at a field meeting reported improved understanding of what pressure chamber measures (100% marked yes

from 19% at the start), how to take the measurement (100% up from 41%) and how to interpret the results for refined irrigation management. (Luke Milliron, Orchard Advisor)

Improved water-supply security

- Northern Sacramento Valley water users increased their interest and understanding of surface water and groundwater resources in the Northern Sacramento Valley. Distrust and conflict between different interest groups has been reduced. Water users in the valley are now more prepared to manage and sustain groundwater supplies in accordance with the Sustainable Groundwater Management Act. (Allan Fulton, Water & Irrigation Advisor)

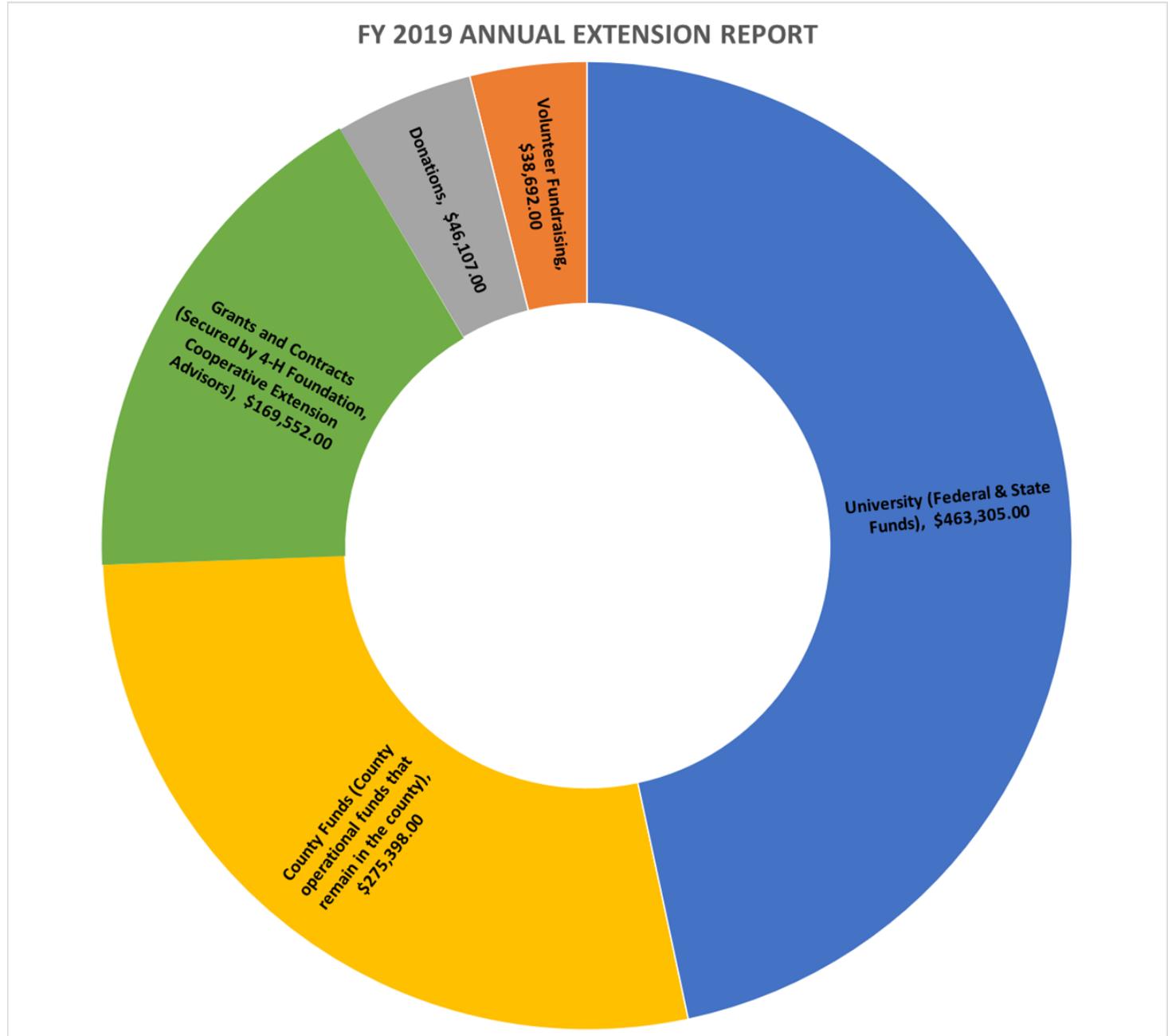
Improved water quality

- Growers in the Sacramento Valley increased awareness of the connection between irrigation efficiency and non-point source agricultural pollution. (Allan Fulton, Water & Irrigation Advisor)

FINANCIAL STATEMENT- UC & COUNTY SUPPORT

The County provides office space, support staff, supplies and services necessary for program delivery, valued at \$275,398.00. This partnership assures UC ANR presence in Glenn County to assist with continued research and education to meet our community's agricultural needs.

The University provides academics and staff who deliver programmatic missions, support services and supplies, valued at \$463,305. Our overhead costs are predominantly paid for via Academic Advisor-secured grants. Our generous donors have graciously supplemented our budget with approximately \$46,107.00. This allows us to continue to offer our problem-solving research within Glenn County.



DAIRY PROGRAM



The Dairy program serves producers and supporting industries with timely research and education programs to improve dairy sustainability, animal health and business management. Research-based information guides management practice decisions and improves productivity and sustainability for farms throughout the county and region.

Animal health and well-being

Through research projects and educational programs, dairy producers and workers can use our scientific data to implement management practices that may reduce disease incidence, eliminate unnecessary antibiotic treatments and improve animal health outcomes. Based on our work to analyze the short-term economic impact of BRD in dairies, this potential reduction in disease prevalence could translate to annual savings of >\$100,000 for the local dairy industry and upwards of \$6 million statewide. In our studies of antimicrobial use and stewardship, we aim to educate about the use of treatment protocols on farm and the adoption of alternative, non-drug disease prevention and treatment approaches, ultimately improving the health status of dairy herds.

Productivity, Efficiency & Sustainability

The impacts of wildfire ash, especially in the urban-wildland interface, on forage crops were previously unknown. We analyzed dozens of forage samples and found little to no toxicological impacts of wildfire ash. Even in fields that had abundant visible ash on the plants when we collected samples, we found no

indication of toxic contamination due to the devastating fire season of 2018.

Our research team was able to improve greenhouse gas emission estimates on dairy facilities and promote understanding within the regulatory community of the diversity of dairy management practices. Dairy producers are mandated to meet emission reduction goals of reducing methane emissions by 40% below 2013 levels by 2030. Our work informs the implementation of sustainable practices as regulatory agencies continue to develop plans to improve air quality in California. To date, dairy farmers in California have employed practices that reduce methane emissions by 2.2 million metric tons annually, which is approximately 25% of the 2013 levels.

Contributions to scholarly literature

- Control and management of bovine respiratory disease
- Educational and research needs for California dairy producers
- Sampling protocols for improved manure management
- Prevalence of and risk factors for Cryptosporidia in calves
- Analysis of fecal microbial communities
- Partnerships for water quality and dairy sustainability

ORCHARDS PROGRAM



The Orchards program serves growers and pest control advisors (PCAs) who farm tree crops in Glenn, Butte & Tehama counties. We provide research based information and advice on all aspects of orchard production from pre-plant to orchard removal. This research program aims to improve production practices and the success of our local industry.

Research projects funded in 2018-19 include:

- Walnut rootstock improvement
- New control materials for olive fruit fly
- Control of band canker disease in almonds
- Field evaluation of almond varieties
- Cover crop benefits for almond orchards
- Use of cover crops for nematode suppression in walnuts

This newsletter offers current information regarding orchard news & information in the Sacramento Valley. This is an excellent way to remain up-to-date on upcoming events, meetings, workshops & field days. The event calendar and information is listed on the website listed above.

For more information about the Orchards Program or a Calendar of Events, please take a look at these resources:

Workshops and Continued Education

There are annual meetings offered for growers and PCAs of olives, prunes, almonds & walnuts. These meetings present current research updates and best management practices. Additionally, they offer continuing education (CE) credit opportunities through California Department of Pesticide Regulation and Certified Crop Advisor (CCA credits).

Website:

sacvalleyorchards.com

Podcast:

growingthevalleypodcast.com

Blog:

sacvalleyorchards.com/blog/

Outreach and Publications

Newsletters are mailed to subscribers 3-4 times per year, either by hard copy or email. In addition, newsletter articles & archived articles are posted online at sacvalleyorchards.com.

CLIMATE SMART AGRICULTURE PROGRAM



The Climate Smart Agriculture program, in partnership with CDFA, works to provide technical assistance to local farmers and ranchers that want to apply for the Healthy Soils Program, State Efficiency and Enhancement Program, and Alternative Manure Management Program.

The team of educators across the state help farmers and ranchers work on their applications to submit, to project implementation and everything in between including hosting meetings in their local communities and attending various workshops to present on the grant programs. Climate Smart Agriculture promotes increasing agricultural productivity, building resiliency to climate change and reducing greenhouse gas emissions.

Focus Areas in 2018-2019

- Healthy Soils Program– Two types of projects, incentives and demonstration. Incentives program provides financial incentives to farmers and ranchers to implement management practices that sequester carbon, reduce greenhouse gases and improve soil healthy. The demonstration project, while including the same goals as the incentives grant, requires that recipients of the demonstration project collect data and/or showcase management practices and create a platform to promote widespread adoption of these practices throughout the state.
- Alternative Manure Management Program– provides financial assistance to California livestock producers to implement non-digester, manure management practices, such as pasture-based management, solid separation, conversion from flush to scrape and alternative manure treatment and storage, to reduce greenhouse gases.

- State Water Efficiency and Enhancement Program– provides financial assistance to implement irrigation systems that reduce greenhouse gases and save water. Some eligible components include soil moisture monitoring, drip systems, switching to low pressure irrigation systems, pump retrofits and installation of renewable energy.

By the Numbers

Projects in Glenn, Colusa, Tehama & Butte County:

Projects submitted:

- HSP: 4 submitted
- SWEEP: 4 spring submissions - 8 fall 2019 submissions
- AMMP: 1

Projects funded (as of February 2020):

- HSP: 3 funded
- SWEEP: 2 for spring 2019 – waiting for fall 2019 announcements
- AMMP: 1

4-H YOUTH DEVELOPMENT PROGRAM



4-H youth exposed to hands-on science projects early are

5x

more likely to build a career in math or science



The 4-H Youth Development program provides experiential learning to help culturally diverse youth reach their full potential by developing leadership, citizenship and life skills in supportive environments. Youth can participate in 4-H clubs, camps, after school programs and events that are offered throughout the state in both rural and urban centers. The program also provides STEM teen teaching, leadership development and civic engagement opportunities.

Youth who participate in 4-H have better outcomes than youth in other programs:

- 2x's more likely to have better grades
- 1.7x's more likely to take courses/pursue STEM careers
- 87% of 4-H youth gained social and leadership skills
- 25% more likely to contribute to their families, themselves, and their communities
- more likely to see themselves going to college
- 41% less likely to engage in risk/problem behavior

We believe in the power of young people

4-H is the largest youth development program in Glenn County. Using research-based youth development practices, 4-H engages youth and adult volunteers in youth-adult partnerships, resulting in increased learning and leadership development. Young people participate in hands-on, learn-by-doing opportunities suited for everyone.

By the Numbers

- 492 plus hours of instruction offered to Glenn County 4-H youth members
- 82 Hands-on learning projects
- 499 Youth members enrolled
- 107 Adult volunteers enrolled

Donations, Fundraisers & Grants in 2018-2019

- Barceloux-Tibessart
 - Donated for 4-H Shooting Sports = \$4,491.58
- National Rifle Association Foundation
 - Donated for 4-H Shooting Sports = \$1,059.43
- Tractor Supply Paper Clover Campaign
 - Donated for Camp Opportunities & Leadership Development = \$1,316.50
- Country Pumpkins
 - Donated for 4-H Community Clubs, Hi- 4-H and County Ambassadors = \$4,800.00
- Various Donors
 - Donated for 4-H Council = \$7,282.50

MASTER GARDENER PROGRAM



UC ANR Master Gardeners Mission: "To extend research-based knowledge and information on home horticulture, pest management and sustainable landscaping practices to the residents of California."

Focus Areas in 2018-2019

- Providing education and technical assistance to help communities conserve and provide safe and diverse food sources for honey bees
- Creating and maintaining a demonstration and teaching garden to showcase plants and sustainable gardening techniques appropriate to our local area and provide learning opportunities for home gardeners on design, planting, and maintenance practices
- Educating community members and civic organizations through plant diagnostic clinics, public speaking engagements, and outreach at fairs, events and farmer's markets
- Developing a network of trained volunteers who can provide research-based horticultural education and technical assistance in gardening and home horticulture.

By the Numbers

- 11 Active Volunteers, 84 Total all time volunteers
- 7,726 Total all time volunteer and continuing education hours
- 574 Total volunteer and continuing education hours for 2018-19 fiscal year
- 52 Average hours donated per volunteer each year
- Trained and certified 7 new Master Gardener Volunteers

- \$14,596.82 Value of volunteer hours in fiscal year 2018-19*

*According to Independent Sector, California value of volunteer time at a rate of \$25.43 per hour

Projects in 2018-2019

UCCE Glenn County Master Gardeners answered about 50 questions last year from Glenn County residents. Most of the questions were about trees, both fruit trees and landscape trees. Citrus trees were the most asked about trees.

Glenn County Master Gardener volunteers set up information booths on Saturday mornings throughout April and May at local events to hand out information and answer questions.

- Honey Bee Hobby Day in April
- Orland Pollinator Event in June
- Willows Craft Fair in December
- Olive Festival in October
- Orland Ace Hardware

The UCCE Glenn County Master Gardeners worked on developing a demonstration garden behind the UCCE office in Orland. The three existing beds were tilled and fresh soil was added to the beds. In September a winter garden was planted. Peas, carrots, beets, lettuce, kale and onions were planted. The garden was used to demonstrate how vegetables can be grown in raised beds.

The Master Gardeners received a grant from the Barceloux-Tibessart Foundation to purchase supplies for the demonstration garden. We want to thank the Foundation for their gift.



**UCCE Glenn County
Master Gardener**

PLANT CLINIC

Plant Clinic Hours Wednesdays from 2:00 to 4:00pm, UCCE Office, 821 E. South Street, Orland

Walk-ins are welcome!
Call us 530-865-1107

LOOKING FORWARD

Promoting Economic Prosperity in Glenn County

UCCE Glenn partners with public, nonprofit, and private groups to create and extend new knowledge about agricultural and natural resource management. Participants change practices that result in increased yield and efficiency as well as reduced inputs, thus increasing economic return. UC ANR also conducts research and education leading to improvements in individual and household financial management practices. These changes improve individual and business financial stability, increasing the viability of California's economy and maintaining our role as a global leader.

Our local partners are integral to our success: we can further leverage our resources by working with partners like the Natural Resources Conservation Service, the Resource Conservation District, the Glenn County Farm Bureau, California Women for Agriculture, Glenn-Colusa Cattle Women, Orland Rotary, UC Davis Center for Food Animal Health Stakeholder Committee, and so many more!



GLENN COUNTY COOPERATIVE EXTENSION STAFF

Betsy Karle, County
Director and Dairy Advisor

Mariano Galla, Agronomy
and Weed Science
Advisor

Sara van Tol, Interim 4-H
Youth Development
Program Representative

Cindy Montes, Research
Assistant

Dani Lightle, Orchard
Advisor

Alyssa Perry, 4-H Youth
Development Program
Representative

Deanna Rogers, Interim
4-H Youth Development
Program Representative

Starryne Lefdal,
Administrative Assistant

Lea Eddy, Accounting &
General Services Specialist

Gail Harris, Office
Assistant

Garrett Otterson, 4-H
Program Assistant

CROSS-COUNTY STAFF

Josh Davy, Tehama County
Director and Livestock
Advisor

Luis Espino, Butte County
Director and Rice Advisor

Allan Fulton, Water and
Irrigation Advisor

Luke Milliron, Orchard
Advisor

Emily Symmes, IPM
Advisor

WE ARE GRATEFUL

FOR THE INDIVIDUALS AND BUSINESSES WHOSE
GENEROSITY MAKE OUR WORK POSSIBLE.

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GENEROSITY MAKE OUR WORK POSSIBLE.

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Steve and Kelly Mora

Barry & Carrie Morrell

Wayne, Karen and Scott
Murphy

Smith Family Farm

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Erick Nielsen Enterprises,
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Marrone Bio Innovations

John Orendorff

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Greg and Barbara Overton

George and Joanne
Overton

Irma, Greg, Jeff, George and
Maureen Overton

Bill Owens

Ed Owens

Don and Barbara Parisio

Pete and Kylee Paulos

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Carolyn and Jack
Pendergrass

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UCANR
 UC Master Gardener Program



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