

UC CE

University of California
Agriculture and Natural Resources
Cooperative Extension

2018 ANNUAL REPORT

GLENN COUNTY



**FARM ADVISOR
PROGRAMS**



**MASTER GARDENER
PROGRAM**



**4-H YOUTH
DEVELOPMENT
PROGRAM**

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821 E. South St. P.O. Box 697 Orland, CA. 95963
(530) 865-1107 phone (530) 865-1109 fax
ceglenn.ucanr.edu

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GLENN COUNTY, USA

Glenn County's rich agricultural history runs deep. The county was established in 1891 and currently has over 28,000 residents.

Agriculture continues to be the primary industry in Glenn County. The value of agricultural commodities increases by at least 4% each year.

- In 2016, gross production of agricultural commodities was valued at \$748,461.
- There are approximately 1,311 farms in Glenn County.
- Average farm size is 510 acres; however, 51% of farms are smaller than 50 acres.



UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION - GLENN COUNTY

The University of California Cooperative Extension (UCCE) is dedicated to improving the quality of life for Californians by developing and delivering research-based information in agriculture and natural resources, and by supporting healthy families and communities.

UC COOPERATIVE EXTENSION

CE is an institution within land-grant Universities established to conduct research and outreach to the public using both campus and county based local programs.

The institution was established by the Smith Lever Act in 1914, using USDA's partnership with land-grant universities to conduct research and education in agriculture.

Over the years, the program added other disciplines such as Nutrition, Natural Resources, 4-H Youth Development, and Master Gardening in both rural and urban areas.

UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION - GLENN COUNTY

MESSAGE FROM THE DIRECTOR

What we do: Turn science into solutions. *How we do it:* Teamwork and collaboration. The work of UC Cooperative Extension in the Glenn County community is based on the foundations of scientific discovery, funded by the County, University of California, United States Department of Agriculture, commodity boards and commissions, research funders and private donors, and is supported locally by hundreds of volunteers.

UC Cooperative Extension is best described as a vast network of UC researchers and educators. In return for University work in our community, the county provides support, including administrative staff, facilities, transportation, utilities and more. Our scientists and educators live and work in our community, gaining an intricate understanding of local challenges. Our work would not be possible without the hundreds of 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.

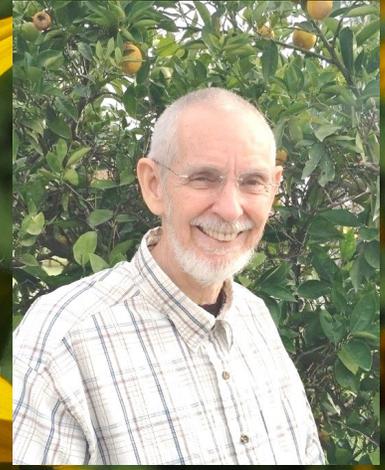
Our unique funding model has challenges. State and federal funding have decreased, leaving our programs understaffed while needs continue to grow. Private donors and research funders help fill the gap and local partners like the Natural Resources Conservation Service, Resource Conservation District and Farm Bureau are vital to amplifying our message and extending our research findings.

Our locally relevant applied research would be impossible without the collaboration of dozens of forward thinking and innovative farmer cooperators. The insight from these leaders within our food production systems is essential to conduct our problem-solving research. We continue to be dedicated to our community and its residents and look forward to new discoveries and challenges in the coming year.

Betsy Karle
County Director



A YEAR IN REVIEW



ABOUT US

Glenn County Cooperative Extension is made up of 9 paid staff members and many volunteers and emeritus staff members.

From Top Left: Betsy Karle, Dairy Advisor/County Director; Dani Lightle, Orchard Systems Advisor; Mariano Galla, Agronomy & Weed Science Advisor; Cindy Montes, Research Assistant; Alyssa Perry, 4-H Youth Development Program Representative; Bob Scoville, Volunteer Master Gardener Coordinator; Starryne Lefdal, Office Manager; Lea Eddy, Accounting & General Services Specialist; Gail Harris, Office Assistant; Garrett Otterson, 4-H Program Assistant.



CROSS COUNTY/ EMERITUS

Glenn County is pleased to have the added experience from our Cross-County and Emeritus staff members.

From Top Left: Rick Buchner, Tehama County Emeritus Orchards Advisor; Josh Davy, Tehama County Director/Livestock Advisor; Emily Symmes, Butte County Director/IPM Advisor; Luke Milliron, Butte County Orchard Advisor; Luis Espino, Colusa County Rice Advisor; Chelsea Slattery, Butte County Nutrition, Family and Consumer Sciences Advisor; Allan Fulton, Tehama County Irrigation and Water Resources Advisor; Bill Krueger, Emeritus Orchards Advisor; Pamela Geisel, Emeritus Environmental Horticulture Advisor (not pictured).



Mariano Galla
**SERVING GLENN,
BUTTE & TEHAMA
COUNTIES**

The agronomy & weed science program serves growers & pest control advisors who farm agronomic crops as well as providing information on weed abatement to nut and fruit tree growers.

mfgalla@ucanr.edu

AGRONOMY & WEED SCIENCE PROGRAM

SERVING THE NEEDS OF THE TRI COUNTIES

The agronomy and weed science program serves growers and pest control advisors (PCAs) who farm agronomic crops in Glenn, Butte and Tehama counties. In addition, the weed science program also offers assistance to nut and fruit tree growers.

The current agronomy and weed science program was initiated in June 2017. During that first year, research projects have been developed based on the needs of local growers. In particular, attention will be focused on:

- Emerging problematic weeds in orchard systems
- Weed management programs in rotational crops
- Herbicide resistant weeds management in both orchard and agronomic crops with particular focus on Italian ryegrass.
- Alternatives to chemical control of weeds
- Herbicide drift studies

PARTNERSHIPS & PUBLICATIONS

CONNECTING CURRENT RESEARCH TO LOCAL INDUSTRY

The weed science program is also co-operating with the IR-4 project. This is a federally funded project designed to increase pest control options for specialty crops.

In collaboration with advisors from Colusa and Yolo counties, the Weed Management Notes newsletter and Sacramento Valley Agronomy Notes newsletter are published on a quarterly basis. This publication offers insight for weed management and current and up-to-date research from the UC system.





ORCHARDS PROGRAM

CONNECTING YOU TO CURRENT RESEARCH AND TECHNOLOGY

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 2017-18 include:

- Mechanical topping of dormant 2nd leaf almonds
- Biological control of brown marmorated stink bug
- Feasibility of adding almond hulls to producing almond orchards
- Walnut rootstock improvement
- New control materials for olive fruit fly
- Winter water management in almond orchards
- Field evaluation of almond varieties

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).

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



Dani Lightle

SERVING GLENN, BUTTE & TEHAMA COUNTIES

The orchard program provides research based information and advice on all aspects of orchard production from pre-plant to orchard removal.

dmlightle@ucanr.edu

DAIRY PROGRAM

SOLVING CALIFORNIA ISSUES FOR CALIFORNIA DAIRIES

The dairy program serves producers and allied industry by conducting research activities to guide on-farm management decisions. Information about management practices for all types of dairies is available and programmatic activities are driven by clientele needs. Current research projects include:

- Characterization of volatile solids in waste streams and methane reduction strategies
- Risk assessment for dairy calf respiratory disease management
- Antimicrobial stewardship strategies and management tools
- Effects of wildfire ash on forage crops
- Selective dry cow preventative mastitis treatment protocols
- Quality of non-saleable milk for calf diets

This year, the UCCE dairy team hosted the second Golden State Dairy Management Conference. Those in attendance were dairy producers, nutritionists, veterinarians, and other members of allied industry who are interested in topics related to dairy production in California. University research findings on genomics, nutrient management, herd health, forage quality, feed & diet management, reproduction and environmental sustainability were presented, followed by a half-day session of hands-on demonstrations.



Betsy Karle

SERVING GLENN COUNTY

Serves producers & allied industry by conducting research activities to guide on-farm management decisions. Information about management practices for all types of dairies is available.

bmkarle@ucanr.edu

KEEPING DAIRY PRODUCERS INFORMED & UP-TO-DATE

Four issues of the California Dairy Newsletter, a collaborative, research-based dairy newsletter, were distributed to subscribers throughout the year. This newsletter keeps producers informed on dairy issues and University research.



UC MASTER GARDENER PROGRAM



The Master Gardener program has been busy in 2017-2018. The Glenn County volunteer Master Gardeners partnered with the Glenn County Office of Education to host the fourth UC Master Gardener class since the program's inception in 2011. There were 7 graduates from this class. Each student was presented with 14 weeks of hands-on instruction and able to learn from the industry's experts in botany, soils, fertilizers, home orchards, plant pathology and much, much more!

There are currently 31 volunteers on the Glenn County Master Gardener roster. These 31 volunteers have worked on Master Gardener projects for a documented total of 3,741 volunteer hours since 2011.

Some of the hours are spent assisting homeowners and Glenn County residents at the free, weekly Plant Clinic offered at the Glenn County Cooperative Extension Office. Residents can bring their questions or samples and meet with a Master Gardener to obtain expert advice and learn more about how to care for their lawn or garden.

In addition to the Plant Clinic, our Master Gardeners are hard at work developing workshops and presenting at the local farmers markets, providing outreach and education.

The volunteers are very active in developing weekly articles to be published in the local newspapers. Each article is based on current events and relevant to the seasons and planting schedules.

We look forward to what 2019 will bring for the UC Master Gardeners in Glenn County! There are many new faces and new enthusiasm.



Master Gardener Program

SERVING THE RESIDENTS OF GLENN COUNTY

100% volunteer-run and donor-funded. Serving homeowners with their gardening or landscaping needs and assisting in creating their own dream environment.

anrmgglenn@ucanr.edu



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

GLENN COUNTY 4-H YOUTH DEVELOPMENT PROGRAM

CREATING TRUE 4-H LEADERS FOR A BETTER FUTURE

The Glenn County 4-H Youth Development Program, established in 1915, helps young people, ages 5-19, reach their fullest potential as competent, confident individuals who contribute to and are connected to their communities.

In 4-H programs, youth serve in leadership roles where they set goals, develop plans, complete projects, and reflect on their experiences. Youth are encouraged to discover their passions, lean on their dedication and hard work, practice self-reflection and set goals. 4-H projects and programs are focused around citizenship, healthy living, and STEM.

Glenn County boasts a healthy program of 10 community clubs, hosting almost 600 members. There are over 130 adult volunteers that are helping guide the youth to a more meaningful experience.

In 2017-18, the 4-H Clubs and Council fundraised over \$58,000 to support their program. This is a \$10,000 increase from prior years.

We are very lucky to have generous donors in our community. Thanks to their partnership, we have received over \$1,595 in grant funds that allowed us to sponsor 24 youth enrollment fees and provide \$2,850 in college scholarships to our graduating seniors.

Glenn County believes in raising true leaders and developing the next generation of hard working and competent adults.

"At age 7, I became involved in an amazing organization. Little did I know where it would take me and how it would mold me into the person I am today." -Jamie Marron, past 4-H Program Representative.



Alyssa Perry

SERVING THE YOUTH OF GLENN COUNTY

Helps young people to reach their full potential as competent, confident, caring leaders of character who are connected to others and contribute to their communities.

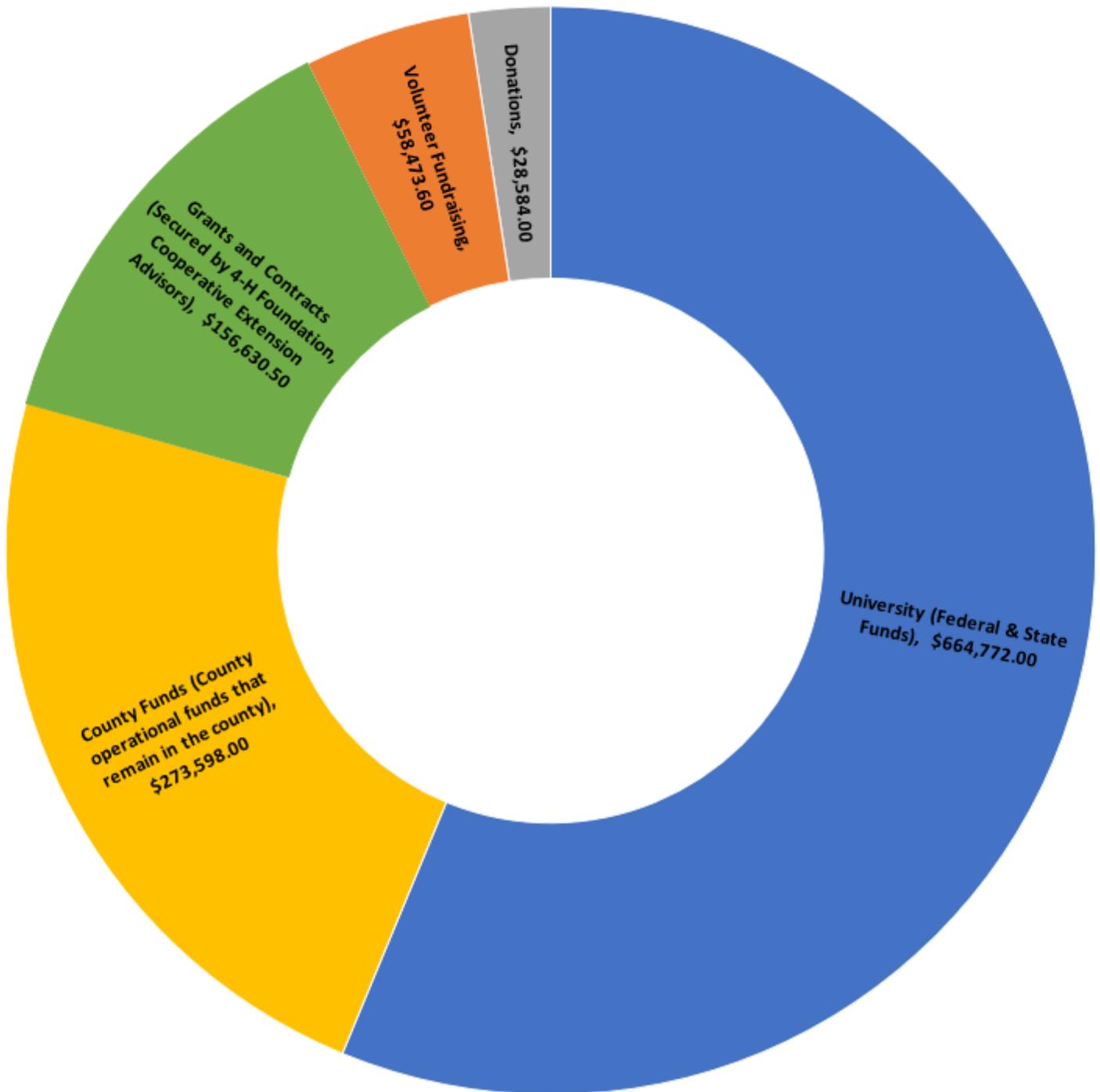
alyperry@ucanr.edu



GROWING TRUE 4-H LEADERS

"In 4-H, we believe in growing young people with the skills needed to succeed in life and career. When young people are empowered to pursue their passions, their unique skills grow and take shape, helping them to become true leaders in their lives, careers and communities" -Jennifer L. Sirangelo, President & CEO National 4-H Council

FY 2018 ANNUAL EXTENSION REPORT



RESOURCES & FINANCIAL MANAGEMENT REPORT

The value of the University's support of UC Cooperative Extension in Glenn County was \$664,772 for the 2017-2018 fiscal year. Additionally, our staff generated \$156,630.50 in grant funds, fees and gifts to support program delivery. The County provides office space, support staff, supplies and services necessary for program delivery, valued at \$273,598.00. Our generous donors have graciously supplemented our budget with approximately \$28,584.00. This allows us to continue to offer our problem-solving research within Glenn County.



Thank You to Our Previous Donors

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2017-2018 DONORS

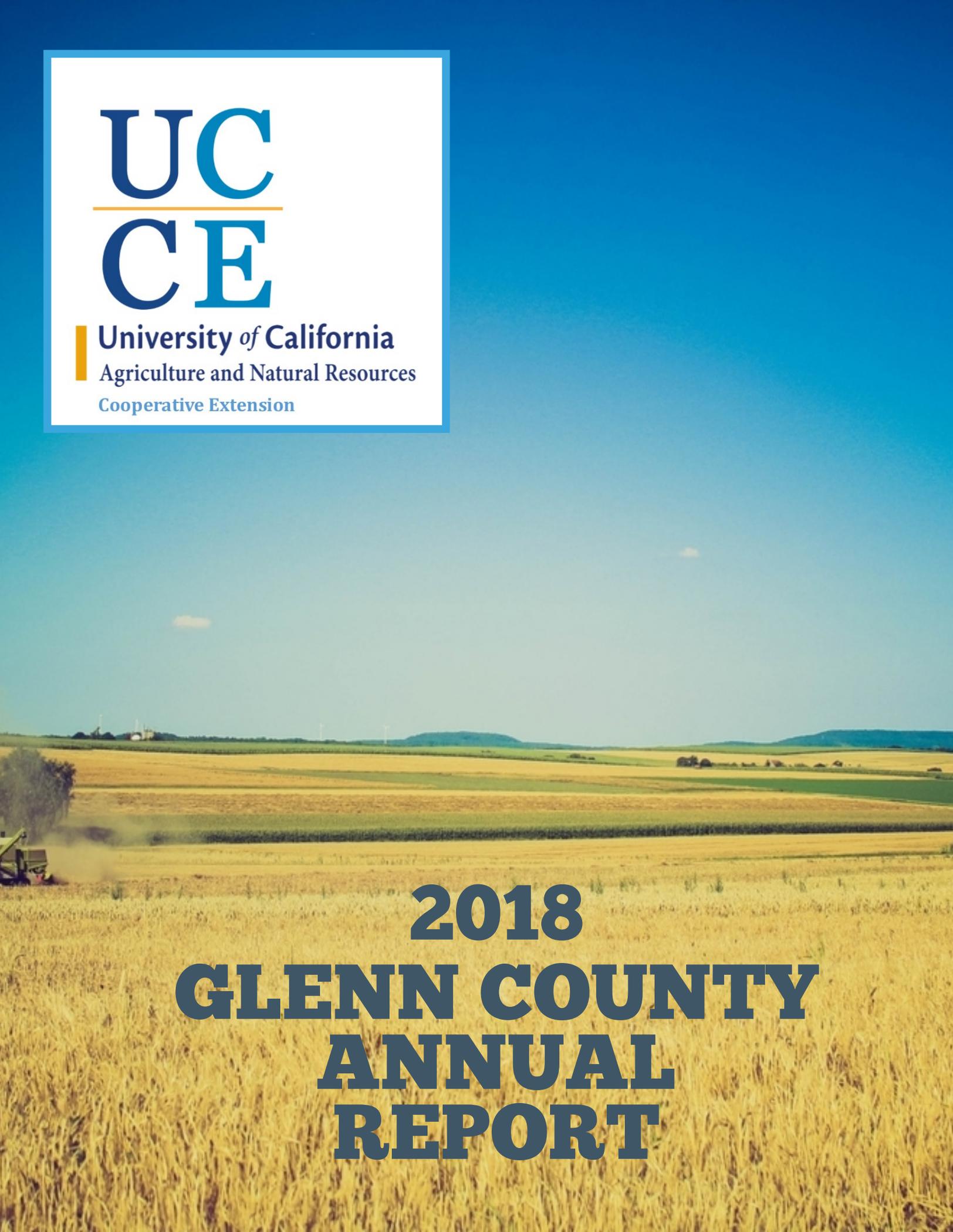
We have made every effort to recognize our many generous donors while honoring any request for anonymity. We apologize for any omissions.

The logo consists of the letters 'UC' stacked above 'CE'. A thin orange horizontal line is positioned between the two letters. The text is in a bold, blue, sans-serif font.

UC
CE

The text is arranged in three lines. The first line is 'University of California' with a vertical orange bar to its left. The second line is 'Agriculture and Natural Resources' and the third line is 'Cooperative Extension'. All text is in a blue, sans-serif font.

University of California
Agriculture and Natural Resources
Cooperative Extension

The background of the entire page is a photograph of a vast agricultural landscape in Glenn County, California. The foreground is filled with golden-brown wheat. In the middle ground, there are rolling hills and fields of varying colors, including green and yellow. A combine harvester is visible on the left side, harvesting a field. The sky is a clear, bright blue with a few small, wispy clouds. The overall scene is bright and sunny, representing a typical agricultural setting in the region.

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