

# California Farm Equipment Magazine

JULY 2025 Volume 44 • Number 7

[www.californiafarmequipment.com](http://www.californiafarmequipment.com)



**IT'S TIME FOR THE MOST POWERFUL  
YEAR-ROUND TRACTOR THE WORLD  
HAS EVER EXPERIENCED.**



*500 HP Fendt® 1000 is a technological marvel  
For more information see page 21*

**FENDT**



## THE NEW FARMALL® MEDIUM UTILITY C SERIES



## FULL POWER. FULL COMFORT. FULL FEATURES.

How do you build on the hard-working performance of the legendary Farmall® Medium Utility C Series? You start by updating the styling and upsizing features like the front axle, hydraulic power, gross vehicle weight, and rear lift capacity. These deluxe utility tractors offer both 12-speed Power Shuttle and 24-speed Hi-Lo transmissions — so you're more than equipped to tackle livestock duties, hay operations, and loader work. For added comfort and a better driving experience, you get updated controls, greater visibility, ActiveClutch II™ brake to clutch, and soft-start PTO. Want more precision farming tech? The new model versions offer factory-installed track-and-trace fleet management and ISOBUS compatible implement control.

For more information visit [caseih.com](http://caseih.com) or contact your local Case IH dealer.



All rights reserved. Case IH is a trademark registered in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. [www.caseih.com](http://www.caseih.com)

# CASE IH

# See Your Local Case IH Dealer Today!

## BAKERSFIELD

Sonsray Machinery  
661-327-1641

## COLUSA

N&S Tractor Co.  
530-458-2166

## DOS PALOS

N&S Tractor Co.  
209-392-2161

## FIVE POINTS

Sonsray Machinery  
559-884-2431

## FRESNO

Sonsray Machinery  
559-834-2277

## MERCED

N&S Tractor Co.  
209-383-5888

## SALINAS

Sonsray Machinery  
831-240-0378

## STOCKTON

N&S Tractor Co.  
209-944-5500

## STRATFORD

N&S Tractor Co.  
559-947-3301

## TULARE

Linder Equipment Co  
559-685-5000

## TURLOCK

N&S Tractor Co.  
209-634-1777

## WILLOWS

N&S Tractor Co.  
530-934-3382

## WOODLAND

Wilkinson International  
530-662-7373

## YUBA CITY

N&S Tractor Co.  
530-923-7675

# CONTENTS

JULY 2025

## FEATURES

**4 Then and Now: The Power of Agriculture**  
**NRCS is celebrating its 90th anniversary**  
We'd like to hear your stories and see photos

**5 Drone Camps**  
**To help teens' interest in science take off**  
Invited to attend a free Youth Drone Camp

**6 Hedgerow buzz is not just for the bees**  
**It sounds like a new buzz word for regenerative agriculture**  
But it's been a part of farming systems for thousands of years.

**8 Regulators Gain First-Hand Insight**  
**ABC's Environmental Stewardship Tour**  
To provide policymakers with practical insights

**10 Understanding and Predicting Almond Yields**  
**"The question is, how can we predict the almond yield"**  
To provide policymakers with practical insights

**12 Researchers Race Against the Clock**  
**To Uncover Preventive Strategies for Liver Abscesses in Cattle**  
The economic losses associated with this condition in cattle is in the millions.



4



8



12

**18 UC Davis Launches Small-Batch Wine Label**  
**Hilgard631 Wine Sales Will Benefit Student Scholarship**  
UC Davis selling wines to the public made by students



12

**On The Cover**  
**"FENDT" It's Time For**  
**The Most Powerful**  
**Year-Round Tractor**  
**The World Has Ever**  
**Experienced.**  
**Empire Agriculture**  
**Page 21**



# Then and Now: The Power of Agriculture

*NRCS is celebrating its 90th anniversary this year. We'd like to hear your stories and see photos of your operation – Then and Now. Do you have photos of your operation from its beginnings to the present day? If so, we want to hear from you!*



By Nancy McNiff

*USDA Farm Production and Conservation Business Center*

NRCS is celebrating its 90th anniversary this year. We began our celebration by posting a blog and an interactive timeline about NRCS history and a video about how we've helped farmers over the years. We've also been sharing some historical photos on social media that show how our mission has changed and stayed the same over the years.

Now, we'd like for you to join us in our celebration. We'd like to hear your stories and see photos of your operation – Then and Now.

Does your agricultural operation have a fascinating history you'd like to share? Are there interesting stories about how your operation came to be or how it's evolved? Do you have photos of your operation from its beginnings to the present day? If so, we want to hear from you!

Agriculture and conservation practices have changed a lot over the years. Advanced equipment and new technologies have made agriculture and conservation practices more precise and efficient. We've progressed from mule or horse-drawn plows to tractors, combines, and other high-tech machines – reducing manual labor and increasing productivity.

Farm employment and farms have also changed over time. Many years ago, farming used to be the dominant occupation in the United States. Now, it makes up less than 2% of the



*Early use of contour farming, circa 1930s*



*Modern use of contour farming*

nation's workforce. Farms have also become much larger and more specialized than they used to be.

Even with all these changes over the years, America remains a nation sustained by agriculture and family farms. Family farms make up 86% of all farms that feed, fuel, and clothe us and keep our small towns and rural communities alive.

This summer, we want to highlight how things have changed on your operation over the years in our #ThenAndNow campaign on NRCS and FarmersGov social media.

Here's how to participate:

Find a few historical photos of your operation from when it began - Then.

Using your smartphone or digital camera, take photos of your operation - Now.

In a few sentences, tell us: how has your operation changed over the years? How has it expanded, modernized equipment and practices, or transformed with conservation?

Include your name, the location of your operation, and links to any social media accounts you manage to promote your operation.

Submit the above to [SM.FPAC.NRCS.Facebook@usda.gov](mailto:SM.FPAC.NRCS.Facebook@usda.gov) by Friday, August 1, 2025.

Please note that by submitting your photo/video, you are granting USDA permission to use these materials for outreach and education purposes.

## Drone Camps to help teens' interest in science take off

This July and August, teens ages 13 to 18 are invited to attend a free Youth Drone Camp at locations across the Bay Area and Northern California. The camp is organized by California 4-H, a youth development program of the University of California and delivered through UC Cooperative Extension.

The camps will be held July 7-11 in San Jose, July 21-25 in Napa and Aug. 4-8 in Redding. Registration is required. Details can be found at <https://qrco.de/dronecamp>.

During the camp, participants will safely fly drones, capture aerial images, process data and use GIS mapping software. Through hands-on activities and teamwork, the young people will be developing stronger STEM skills that can prepare them for future careers in agriculture, technology and environmental science. They will explore topics like crop health, livestock monitoring and food justice.

"As a leading agricultural state, California offers incredible opportunities for youth to explore careers in agriculture," said Steven Worker, 4-H youth development advisor for Marin County and an organizer of the camp. "We aim to inspire young people to see agriculture as an innovative field – one that integrates cutting-edge technology and environmental science."

The camp is free for all participants, with space for up to 24 teens at each camp. Spots will be available on a first-come basis. Each camp will be held Monday to Friday, 9 a.m. to 3 p.m. daily.

The Drone Camps are part of AFA2, a three-year, \$750,000 grant from the U.S. Department of Agriculture-National Institute of Food and Agriculture (NIFA). The grant is aimed at sparking interest in food and agriculture among teenagers by using cutting-edge drone and mapping technologies.

By blending hands-on activities with real-world applications, AFA2 empowers young people to explore the science behind agriculture in fun and meaningful ways. AFA2 demonstrates that technology can make a real difference in communities and ensures that the next generation of agricultural scientists and leaders is diverse, skilled and ready to take on the challenges of the future.

California 4-H is the youth development program of the University of California and delivered through UC Cooperative Extension in every county in California. 4-H grows true leaders, youth who are empowered for life today and prepared for a career tomorrow. The hands-on approach in 4-H gives young people guidance, tools and encouragement, and then puts them in the driver's seat to make great things happen.

Independent research confirms the unparalleled impact of the 4-H experience, demonstrating that young people are four times more likely to contribute to their communities; two times more likely to make healthier choices; two times more likely to be civically active; and two times more likely to participate in STEM programs. Learn more at [4h.ucanr.edu](http://4h.ucanr.edu).

UC Agriculture and Natural Resources brings UC information and practices to all 58 California counties. Through research and Cooperative Extension in agriculture, natural resources, nutrition, economic and youth development, our

## GOULD AUCTION & Appraisal Co. LLC



*Integrity, Experience, Results*

### UPCOMING AUCTION

**SATURDAY July 26, 2025 10:00 AM**

Inspection: Friday July 25th - 9AM-3PM (Be Prompt Short Sale)

### CARTAGENA TRUCKING BANKRUPTCY AUCTION

**20700 Spence Rd., SALINAS, CA 93908**

*Directions: 101 Hwy to Spence Rd go East to 20700 Rd. to Sale Site*

**2017 Kenworth, 2016 Kenworth, 2012 Kenworth, 2010 Freightliner, (4) 2010 Utility Reefer's, (2) 2007 Utility Reefer's, 1998 Wabash Utility Reefer, 2004 Utility Trailer Van, 2007 Trailer**

### LIVE AUCTION & ONLINE BIDDING

**\*PROXIBID HANDLING ALL ONLINE BIDS\***

[www.proxibid.com](http://www.proxibid.com)

6200 Price Way, Bakersfield, CA 93308

**Office (661) 587-3123 • Jerry (661) 333-3040**

**[www.Gouldauction.com](http://www.Gouldauction.com) • Email: [Gouldhitch@aol.com](mailto:Gouldhitch@aol.com)**

Bond #CA MS150-49-03 USA MS2892233

## Smith Welding & Machine Shop

179 So. 10th Avenue

Hanford, CA 93230

Phone (559) 584-8652

## Tomato Vine Cutter



[www.smithweldingshop.com](http://www.smithweldingshop.com)

mission is to improve the lives of all Californians. Learn more at [ucanr.edu](http://ucanr.edu).

To read more UC ANR news, visit our newsroom at [ucanr.edu/News](http://ucanr.edu/News). Follow @UCANR on LinkedIn, Instagram, X (Twitter), Bluesky, Threads and Facebook.

# Hedgerow buzz is not just for the bees!



Mandeep Riar, PhD  
Restoration Ecology and Weed Science Advisor

"Hedgerows" may sound like a new buzz word for regenerative agriculture, but it has been a part of farming systems for thousands of years. In Europe, especially in Great Britain, hedgerows began as early as the Bronze Age and became widespread by the medieval period. Those hedgerows primarily served to mark property lines, keep livestock in, and as windbreaks. However, in the early United States, Hedgerow plantings were not very common. One of the biggest examples of utilizing hedgerows can be traced back to 1930s when the U.S. Department of Agriculture's Shelterbelt Program promoted shelterbelts and windbreaks to prevent soil erosion in the Midwest. Though hedgerows were never as popular in the US compared to Europe, they have made a comeback in the recent decade as a useful tool for conservation agriculture. In the context of Southern California's intensively managed agricultural landscapes, hedgerows are not a common practice and are often perceived as inefficient land uses, economically non-productive strips that compete for water and complicate mechanized operations. However, emerging research and field trials suggest that hedgerows provide critical ecosystem services that may offset, or even exceed, the opportunity costs of the land they occupy.

One of the primary benefits of hedgerows is pollinator support. Hedgerows enhance the native bee

richness and abundance, leading to improved pollination services in adjacent fields. For Southern California growers of pollination-dependent crops such as almonds, strawberries, melons, and avocados, the presence of hedgerows with sequentially blooming native species can significantly enhance pollinator presence during critical flowering windows. Hedgerows also act as natural pest control by attracting and harboring natural enemies of agricultural pests, including predatory beetles, syrphid flies, parasitic wasps, and spiders, which prey on aphids and mites. This reduces the need for chemical sprays, saving money and decreasing the harmful impacts on the environment.

But the benefits of hedgerows are not limited to bees and beneficial insects. Established hedgerows improve soil and water management by reducing water runoff after rain, reducing wind erosion and dust, and stabilizing soil on slopes. Woody perennial hedgerows also act as carbon sinks, storing biomass both above and below ground. Their shading and windbreak functions contribute to microclimate regulation, buffering crops from heat extremes and desiccating winds. Additionally, recent studies published by University of California Agriculture and Natural Resources (Long and Valliere, 2025) have shown that hedgerows can reduce weed pressure along field borders and adjacent interiors of the field. Detailed findings of this study can be found at "Long RF, Valliere JM. Established native hedgerows on field borders suppress weeds on farms. Weed Science. 2025;73: e33. doi:10.1017/wsc.2025.2. or by emailing at mriar@ucanr.edu.

For Southern California, hedgerows should be designed with native, drought-tolerant plants like California lilac, toyon, yarrow, buckwheat, and milkweed. These species require little irrigation once established and provide year-round value to wildlife. As California farmers try to adapt to changing weather, stricter regulations, and tighter margins, hedgerows can boost resilience without sacrificing productivity.

## ADVERTISER INDEX

Case IH Tractor Company	
Linder Equipment Co.....	3
N&S Tractor .....	3
Sonsray Machinery .....	3
Wilkenson International .....	3
Fendt Tractor	
Empire Agriculture.....	21
Gould Auction & Appraisal Co .....	5
Kioti Tractor Company	
American Loan Masters .....	15
Exeter Mercantile .....	15
San Joaquin Tractor Co.....	15
Trailer Superstore .....	15
Kubota Tractor Corporation	
Dolk Tractor Co.....	27
Farmers Tractor .....	27
Garton Tractor, Inc.....	27
Linder Equipment Co.....	27
Pioneer Equipment Co .....	27
Linder Equipment Co.....	11
Live Earth Products.....	13
LS Tractor Company	
Lane Tractor Sales INC .....	7
Simply Country .....	7
Tractor City INC .....	7
Valley Forklift INC .....	7
Mulrooney Auction Co .....	24
New Holland Tractor Company	
Coastal Tractor Co .....	23
Dolk Tractor Co.....	23
Garton Tractor, Inc.....	23
N&S Tractor .....	23
N&S Tractor .....	16-17
Pacific Ag Rentals .....	9
Precision Air Systems, INC .....	32
Smith Welding & Machine Shop .....	5
Synthetic Grass Solutions.....	31
Taylor Ag Equipment Appraisals.....	24
Yakima's Best Logistics LLC .....	24



# WE DIDN'T JUST OUTPERFORM OUR COMPETITORS WE OUTPERFORMED OURSELVES

We didn't have to improve load lift capacity by up to 22%. We already had the competition beat. And we didn't have to increase the backhoe's digging depth by 30%.\* But we did. And now, after more than a 1000 hours of testing from the scorching heat of Texas to the frigid air of Michigan, the new 2024 MT2 models are here. Proven and ready to outperform expectations of what tractors this good should cost.

**Start Blue. Stay Blue.**



SEE IT  
IN ACTION  
SCAN NOW



**LS Tractor**  
**Start Blue. Stay Blue.**

\*Compared to similarly equipped 2023 and earlier MT2 models.

© 2024 LS Tractor LLC

**Start Blue. Stay Blue. Stop in at your local dealer!**

**Earlimart, CA**  
**VALLEY FORKLIFT INC**  
559-268-6285

**Fresno, CA**  
**VALLEY FORKLIFT INC**  
800-959-5532

**Grass Valley, CA**  
**SIMPLY COUNTRY**  
530-273-3886

**Modesto, CA**  
**VALLEY FORKLIFT INC**  
209-846-6960

**Stockton, CA**  
**VALLEY FORKLIFT INC**  
209-933-0206

**Rough & Ready, CA**  
**SIMPLY COUNTRY**  
530-273-3886

**West Sacramento, CA**  
**VALLEY FORKLIFT INC**  
916-371-6165

**Los Molinos, CA**  
**LANE TRACTOR SALES INC**  
530-384-1016

**Sacramento, CA**  
**TRACTOR CITY INC**  
916-309-4146

# Regulators Gain First-Hand Insight at ABC's Environmental Stewardship Tour



Participants listened to grower Matt Bowman during the Environmental Stewardship Tour that took place Friday, May 9 in the San Joaquin Valley.

More than 50 representatives from key regulatory agencies attended the Almond Board of California's annual Environmental Stewardship Tour on May 9, an initiative created over 20 years ago to provide policymakers with practical insights into almond farming and industry stewardship practices. This year's tour took place at orchards owned by the Bowman family in Modesto, where attendees gained a direct view of daily farming decisions and innovative stewardship research.

Garret Bowman, a fourth-generation almond grower, along with his sons, welcomed attendees and explained his approach to orchard management through the growing season. He covered essential practices for irrigation and nutrient management, pest control, varieties and rootstocks. Bowman's Pest Control Advisor demonstrated equipment used for monitoring navel orangeworm flights. This demonstration illustrated the complexity and deliberate nature of pest management practices, highlighting the thoughtful decision-making process growers undertake to optimize both crop yield and environmental health.

## Environmental Stewardship Tour

Abhijeet Kulkarni, ABC's principal of technical and trade issues, described the significance of directly engaging regulators in orchard settings. "Fundamentally, it's about outreach to various regulatory agencies that impact our industry," Kulkarni explained. "Many of these decision-makers don't have extensive backgrounds in agriculture, so this tour provides them with the context needed to fully appreciate what growers deal with on a day-to-day basis."

A key feature of the tour was a longer-term nitrogen research project led by UC Davis's Dr. Thomas Harter, exam-

ining the impact of moving to high-frequency, low dose nitrogen applications on the potential for off-site movement of nitrogen. With 21 groundwater monitoring wells and sophisticated analysis of nitrogen movement, this multi-disciplinary research provides unique data on agricultural practices' influence on groundwater quality and greenhouse gas emissions. And it is one of the few locations where current models of leaching are being fact-checked.

## Environmental Stewardship Tour

Early findings indicate significant reductions in nitrogen leaching below the root zone, demonstrating the practice change not only im-

proves nitrogen use efficiency, but can lessen environmental impacts. "This research allows regulators to see firsthand the industry's proactive efforts to minimize environmental impact through scientifically informed practices," Kulkarni noted.

Following the orchard tour, participants gathered for lunch at Marlin Flory's barn, where ABC staff, led by ABC's Director of Environmental Policy Gabriele Ludwig, presented additional updates on current stewardship research and outreach efforts. This session sparked active dialogue, with regulatory staff posing thoughtful questions about irrigation practices, almond byproduct utilization, and other aspects of almond production.

## Environmental Stewardship Tour

"Regulators asked insightful questions on everything from how growers choose almond varieties to irrigation technology and sustainability practices," Kulkarni said. "For many, this was their first time in an almond orchard, and the experience clearly opened their eyes to the intricate realities growers navigate daily."

Attendees included senior staff from agencies such as the California Department of Pesticide Regulation, California Air Resources Board, California Department of Food and Agriculture, the head of USDA Natural Resources Conservation Service for California, and the head of Region 9 of the Environmental Protection Agency (EPA). By the following Monday, EPA officials in Washington D.C. had already heard about the value of the tour.

"We can't directly influence regulatory decisions," Kulkarni concluded, "but through education and open dialogue, we can ensure decision-makers understand our industry's proactive role in environmental stewardship."





**PACIFIC AG RENTALS**

**RENT THE BRANDS YOU TRUST**

**[www.pacificagrentals.com](http://www.pacificagrentals.com)**  
**(866) 727-7368**



# Understanding and Predicting Early Season Almond Yields

Every year, around April, experts within the almond industry come together to analyze the crop's condition and determine an early-season yield estimate. The estimate is used as a tool for precise farm management and gives growers insight into how they can optimize their orchard operations.

While variability is bound to exist, these estimates provide the industry with necessary information to prepare for the coming harvest and help improve efficiencies, particularly with water usage and nitrogen application.

"One of the key variables that we usually have a hard time measuring at a high resolution and understanding the variability that may happen early in the season, is yield," said Sebastian Saa, associate director of agricultural research at the Almond Board of California (ABC). "You cannot improve what you don't measure."

Current Early Season Survey Methods - Terra Nova Trading has been providing an early-season crop estimate for the almond industry for 27 years. The idea transpired over three decades ago because there was a clear void of information between bloom time to USDA's subjective estimate in May.

While Terra Nova Trading's estimates are based on predictions, a lot goes into creating the seven-page report, said Jerry [JJ] Magdaleno, partner at Terra Nova Trading.

In a matter of days, over 500 orchards are assessed throughout the valley, and the estimators are walking anywhere from eight to ten miles each day. Even though there are only a few months in between the early estimate to harvest, changes like the first and second drop, and weather conditions can drastically impact Terra Nova's numbers.

Human bias, another inevitable factor, can impact the estimate as well. "No matter how much you try and take away your own belief before you go out [to estimate], you have some kind of bias in your mind," Magdaleno explained.

Even the market can dictate the accessor's views on the crop size. "For instance, on a very bullish market, people's views of the crop get smaller; on a bearish market, people's views on the crop actually get larger," Magdaleno said.

Brian Ezzell of Setton Farms also volunteers on a team of 16-20 participants who carry out early season estimates. To mitigate bias and develop the most accurate analysis, their group is equipped with over 24 years of historical data which includes acreage and yield by county. The accessors can compare peak areas, regions and varieties.

One of the partners involved in this process even counts the number of nuts on over 100 trees so they can determine a baseline. It's especially useful because nut size and canopy can be deceiving, making some orchards look more productive than they actually are.

"By using this chart and knowing the footprint of the orchard, the spacing and the nut size, we can determine what the yield is and how many pounds per acre," he explained.

Instead of comparing averages, the team also looks at standard deviations. It helps the industry develop budgets for the next year, create a sales strategy and helps processors prepare supplies and equipment especially if large yields are predicted.

Exploring the Drivers of Variability - Although early season estimates are subject to change, for the past several years, they have provided the almond industry with a glimpse of what could be coming its way.

"There's the marketing, the planning, the logistics and orchard optimization," said Patrick Brown, professor of plant

sciences at UC Davis. "[It helps growers decide] how will you choose to manage your orchard if you have a good vision of what the yield of that orchard will be in the coming year."

That said, figuring out what drives variation from year to year, county to county, and even orchard to orchard, is a topic ABC has been actively researching.

Despite how most growers manage their operation, Brown said measuring variability on a per tree basis is actually most beneficial. The reasoning is because that data provides information that can "help us understand what is causing variability, and it can also be used to feed information into our whole block, farm, or county level estimations," he said.

To gather those insights, ABC funded a two-part project to assess yield variability by county based on the knowledge of weather, crop canopy, last year's yield and several other variables. The second half of the project examined within-field variability to explain what is causing variation among orchards and county-wide. "When you put those two pieces together, they enrich each other and give you a better and stronger algorithm," Brown stated.

The project used a yield monitor system installed on a TOL harvester to gather single-tree resolution yield data at field harvest speeds. The findings showed factors influencing large-scale variation include age, canopy volume, long-term spring temperature, previous year summer temperature and March precipitation.

On the other hand, a few factors that influence small-scale variability are things such as trunk circumference and growth, canopy volume, fruit set, nutrition, soil type, carbohydrate utilization by winter twig samples, and historical damage. "Knowledge of those variables will help inform the other surveys [that JJ and the others are doing] to attempt to explain when their estimations aren't accurate enough," Brown said.

Forecasting with Remote Sensing - While human estimations paired with historical data and research are a good starting point, the Almond Board saw an opportunity to utilize new artificial intelligence technology to provide more yield details beyond what meets the eye.

"The question is, how can we predict the almond yield at each individual block level in a more quantitative, objective and also cost-effective way?" said Yufang Jin, professor of remote sensing and ecosystem change at UC Davis.

Jin and her team at UC Davis worked with ABC to answer this question. Their initial hypothesis predicted that for any orchard within a given year, the production is likely governed by the history of the orchard growth, most likely to be determined by either long-term climate or the soil properties and regulated by short-term weather conditions, like March precipitation or hot summers.

The team took a deeper dive into this hypothesis using remote sensing technology and machine learning models. They learned that its monitoring capabilities can look at what's happening at the individual tree and orchard level.

This technology can also assess things that we might not be able to see with the human eye, like color and the tree's stress conditions. Most importantly, these sensors are constantly collecting imagery, which allows for repeated observation in a more efficient way.

Jin explained that with ongoing research, the goal is to take advantage of all this imagery and "integrate them with all the

*(continued on next page)*



# California Farm Equipment

California Farm Equipment is Published Monthly. The Publisher does not assume responsibility for statements by Advertisers, Editorial or for Products advertised in California Farm Equipment Magazine. The Publisher and Advertisers are not responsible for erroneous statements, ad misrepresentation or typographical errors. Copyright 2025. All rights reserved by California Farm Equipment.

Publisher Joe L. Neyer III  
Associate Publisher Mona L. Neyer

Subscription Rate: Anywhere in the U.S. is \$18 for one year and \$36 for three years, payable in advance.

Website: [californiafarmequipment.com](http://californiafarmequipment.com)  
Email: [info@cfemag.com](mailto:info@cfemag.com)

Postmaster: Please send "Address Service Requested" corrections to California Farm Equipment, Post Office Box 1128, Visalia, CA 93279

Telephone: 559-627-2182

## CONTACTS

### Editorial Office

California Farm Equipment  
P.O. Box 1128, Visalia, CA 93279  
Telephone (559) 627-2182. Website at:  
[www.californiafarmequipment.com](http://www.californiafarmequipment.com)

### Advertising

Contact the Advertising Department at 559-627-2182 or email: [info@cfemag.com](mailto:info@cfemag.com)

### Subscriptions

For a one year subscription \$18.00 and for a three year subscription \$36.00. Out of the country one year \$75.00 except for Canada and Mexico \$50.00.

For all inquiries, send to California Farm Equipment, P.O. Box 1128, Visalia, CA 93279, call 559-627-2182 or email us at [info@cfemag.com](mailto:info@cfemag.com)

**Come and see our huge inventory of  
Case IH and Kubota tractors**

Low-rate financing available and or Lease options!

**READY FOR RENT OR PURCHASE**  
*from 25 hp to 620 hp*



**Also, for rent many implements to choose from!**



*Serving Agriculture Since 1884*

311 E. Kern Avenue  
Tulare, California 93274



**(559) 685-5000** [www.linderequipmentkubota.com](http://www.linderequipmentkubota.com)

*(continued from previous page)*  
climate data, weather information, and orchard level characteristics such as cultivar and age to predict yield early in the season."

Based on their first round of modeling work for individual blocks, the team identified the key predictors to be age; cultivar composition; weather and climate; fractional canopy cover and vegetation indices.

Their framework at the individual tree-level is still in the works, though Jin is confident that with machine-learning capabilities, historical data, and funding

to analyze more orchards, more robust models will be developed to forecast yields.

**Harnessing The Power of Data**  
Whether it be through early-season estimates from industry professionals, variability insights gathered from in-field monitors, or remote sensing imagery, there is great opportunity to equip growers with information to optimize their orchards. The use of technology will continue to make this process easier, and the Almond Board is proactive in making sure there is well-funded research and data to support this.

# Researchers Race Against the Clock to Uncover Preventive Strategies for Liver Abscesses in Cattle



*Cattle with liver abscesses don't show clinical signs and are generally identified too late—at harvest. The economic losses associated with this condition in cattle is in the millions.*

By Maribel Alonso

Scientists at the USDA's Agricultural Research Service (ARS) are leading a groundbreaking initiative to reduce liver abscesses in cattle—an issue costing the U.S. beef and dairy industries millions each year.

While liver abscesses are a silent threat—often undetected until harvest—their impact is deeply felt by producers and processors alike. Particularly at risk are dairy-beef crossbred cattle, a growing segment of the national beef population, with nearly 50% showing signs of liver abscesses compared to only 20% in traditionally raised beef cattle.

“Cattle don't typically show symptoms, which makes early intervention nearly impossible,” said Dr. Rand Broadway, research microbiologist at ARS' Livestock Issues Research Unit (LIRU). “Our goal is to move the timeline forward—detect it earlier, stop it sooner.”

Broadway and colleagues from Texas Tech University, Kansas State University, and West Texas A&M University have spent the past five years examining how diet, stress, and gut bacteria influence liver abscess development in dairy-beef crossbreds. Their latest findings challenge long-held industry assumptions.

“We confirmed that acidosis and aggressive grain

feeding aren't the only culprits,” explained Broadway. “Our research shows that the mere presence of certain pathogens can independently trigger liver abscesses.”

The team identified bacteria from the *Fusobacterium* and *Salmonella* genera in abscess samples, suggesting that these microbes, common in cattle environments, might reach the liver through injuries or inflammation in the digestive tract. Stress events—such as weaning, transportation, or extreme temperatures—may exacerbate this risk.

The implications are far-reaching. By shifting focus from feed-based interventions to microbial control and environmental management, researchers hope to empower producers with new tools that go

beyond traditional diet adjustments.

“Understanding the microbial pathway is key,” Broadway emphasized. “If we can block it, we can solve it.”

As the ARS team continues to identify specific bacterial sources and modes of transmission, their work marks a new chapter in livestock health—one where time, science, and innovation converge to protect herds and preserve industry sustainability.

For more information, visit [www.ars.usda.gov](http://www.ars.usda.gov) or contact [Maribel.Alonso@usda.gov](mailto:Maribel.Alonso@usda.gov).

The Agricultural Research Service is the U.S. Department of Agriculture's chief scientific in-house research agency. Daily, ARS focuses on solutions to agricultural problems affecting America. Each dollar invested in U.S. agricultural research results in \$20 of economic impact.

**HAVE EQUIPMENT TO SELL?**  
**FREE CLASSIFIEDS**  
**[cfemag.com](http://cfemag.com)**





**LiveEarth**  
PRODUCTS

# IMPROVE SOIL HEALTH AND COMBAT SALTS

REDUCE SALT ACCUMULATION AND  
SUPPORT SOIL HEALTH IN YOUR  
POST-HARVEST FERTILITY PROGRAM  
WITH LIVE EARTH HUMATES

**PREMIUM MANUFACTURER OF HUMATES FOR OVER 35 YEARS**

**VISIT US ONLINE AT [LIVEARTH.COM](https://liveearth.com)**

400 S 200 E, EMERY, UT 84522 | (435) 286-2222 | (800) 846-2817





# KIOTI Launches the HX1302 and HX1402: A New Standard for Power and Performance in Utility Tractors



*Up to 25 More Horsepower, Cutting-edge Transmission, and Superior Operator Comfort*

KIOTI Tractor, a division of Daedong-USA Inc., is proud to introduce the HX1302 and HX1402, the latest additions to its HX Series utility tractor line. These models represent KIOTI's most powerful tractors yet, delivering a significant leap in performance with up to 35 more horsepower than previous models. Engineered for demanding applications, the HX1302 and HX1402 are built to excel in heavy-duty farming, bailing, tilling, cultivating, excavating, and grading.

**Experience Enhanced Power and Efficiency:**

The HX1302 and HX1402 feature a state-of-the-art power shift transmission, designed for smooth and efficient power delivery. This advanced technology minimizes operator fatigue, while providing a highly responsive driving experience. With enhanced capabilities, these tractors effortlessly handle heavy loads and power demanding attachments. The robust closed-center hydraulics system delivers an impressive 44 gallons per minute, ensuring rapid and efficient operation.

Stay informed and in control with the KIOTI Connect TMS system, providing real-time alerts and essential vehicle data. The illuminated digital instrument panel offers critical information at a glance including vehicle status, warnings, and TMS alerts.

Boasting an 8,492-pound maximum lift capacity and a category II three-point hitch, the HX1302 and HX1402 offer exceptional versatility for a wide range of applications.

Reach speeds up to 25 mph, while wet multi-disc brakes provide reliable stopping power. The versatile rear PTO, with 540/540E/1,000 rpm speeds, adapts to any task.

The models' heavier base ensures enhanced stability and minimizes the risk of tipping, providing superior control on challenging terrain. Powered by a potent KIOTI four-cylinder water-cooled diesel engine, delivering up to 140 horsepower and 120 PTO horsepower, the HX1302 and HX1402 are engineered to handle the toughest jobs. The power shift transmission offers infinite speed control for precision and efficiency, while the high-capacity hydraulic system effortlessly powers demanding implements.

The ergonomic operator station features a deluxe seat, a standard instructor seat, and adjustable controls to maximize comfort and minimize fatigue. Whether tackling expansive fields or demanding terrain, the HX Series delivers a powerful blend of performance, precision, and comfort.

"The HX1302 and HX1402 utility tractors represent a significant advancement in stability, power, and versatility," said Joel Hicks, product line manager for tractors at KIOTI. "These new models empower operators to tackle demanding tasks across farming, land management, and grounds maintenance. KIOTI remains dedicated to delivering innovative solutions that enable our customers to achieve exceptional results."





WE DIG DIRT

# BRING YOUR BURDENS TO THE BEAST

HX SERIES

NEW

- NEW KIOTI 3.0L ENGINE
- 90 OR 115 HP WITH "POWER BOOST" FUNCTION
- POWERSHUTTLE AND 4WD STANDARD
- ELECTRONIC HITCH CONTROLS

THE BRAWN OF THE OPERATION

SERIES



**Call Your Local Kioti Dealer Today!**

**ACTON**

TRAILER SUPERSTORE  
(661) 233-1166

**DELANO**

SAN JOAQUIN TRACTOR  
(661) 725-2531

**RIDGECREST**

AMERICAN LOAN MASTERS  
(760)-308-1018

**BAKERSFIELD**

SAN JOAQUIN TRACTOR  
(661) 324-4517

**EXETER**

EXETER MERCANTILE  
(559) 592-2121

**WASCO**

SAN JOAQUIN TRACTOR  
(661) 758-3053





# PROUDLY SERVING New & Used Sales

A PARTNER IN YOUR



COLUSA, CA - DIXON, CA - DOS PALOS, CA -

STRATFORD, CA - TURLOCK, CA - WILLOWS

HARRISBURG, OR - HILLSBORO, OR - MADRID

# 888-24

**CASE IH**

**CASE**  
CONSTRUCTION

**MacDon**

**CLAAS**



**WILCOX**  
AGRI-PRODUCTS

**Vrismo**  
FLAIL MOWERS & SHREDDERS

**Exact**  
Harvesting Systems

**PEQUEA**  
A SKID COMPANY

**ZENITH**  
POWER PRODUCTS LLC

**FALC**

**METAL**

\*PER MANUFACTURE AGREEMENTS, ITEM



# ING FARMERS SINCE 1954

## S - SERVICE - PARTS - RENTAL

### OUR COMMUNITY



MERCED, CA - REDDING, CA - STOCKTON, CA

S, CA - YUBA CITY, CA - RENO/SPARKS, NV

ERAS, OR - RICKREALL, OR - WOODBURN, OR

# 6-0892



MS LIMITED TO AUTHORIZED LOCATIONS

# UC Davis Launches Small-Batch Wine Label

## Hilgard631 Wine Sales Will Benefit Student Scholarship



Three wines that are part of the Hilgard631 collection, including two UC Davis cabernet sauvignons and a sauvignon blanc. The wines are on a table and feature multi-colored labels that show the UC Davis water tower and buildings. (Jael Mackendorf / UC Davis)

By Emily C. Dooley

For the first time in its storied history, the University of California, Davis, is selling wines to the public made by students, staff and faculty from grapes they grow in the Napa Valley and around campus in Yolo County.

Hilgard631 has been in the works for more than 10 years and was made possible by a 2021 state law that allows the transfer of as much as 20,000 gallons of Department of Viticulture and Enology wines to a nonprofit that will handle public sales. With this release, the department bottled roughly 500 gallons of wine to sell.

Money from the sales will support student scholarships. By using the grapes and wines produced through teaching, the department is enhancing sustainability. Prior to these sales, wines made by students, including in a 10-week winemaking course, had to be discarded.

"These wines represent our students, their knowledge, creativity and learning," said Ben Montpetit, chair of the Department of Viticulture and Enology. "From vine to bottle, our students are involved in every step."

In 2018, a team of MBA students from the UC Davis Graduate School of Management partnered with the department to create a comprehensive business plan to guide the wine sales initiative. It outlined the formation of a nonprofit and recommended lobbying for a legislative fix.

The wine label name pays homage to Eugene Hilgard, founding director of the university's Agricultural Experiment Station, and 631, which is the address of the Teaching and Research Winery on campus.

The wines sold under Hilgard631 include a 2020 cabernet sauvignon and 2024 sauvignon blanc made from grapes at

Oakville Station, a research and teaching vineyard in the heart of Napa County.

Twelve other wines made by students in the product development class, known as VEN 127L, also will be for sale, including albariño, chardonnay, cabernet sauvignon and petite sirah.

VEN 127L has traditionally been focused on blending, wine stabilization, bottling and the design of labels, and this launch broadens the class to include the consideration of selling, said Professor David Block, who created the course in 2017 when he was chair of the department.

"The wines are made by students who are still learning and getting to try out things they may not have done before," Block said. "It's a new aspect of

the program. It's more sustainable than pouring it down the drain."

In VEN 127L, student winemakers are divided into three groups and charged with developing a red and white wine. Each group also gets help from a professional consultant and department alum who offers advice throughout the class.

"It's absolutely fascinating," said Leticia Chacón-Rodríguez, the winemaker and winery manager. "The students get to connect everything that they learn — all the chemistry, regulations, marketing and blending. The blending piece is where you really put your senses into play."

Students also design their own labels. Master's student Bainian Chen designed the Oakville Station labels, which are a mix of vibrant colors and some familiar campus sights such as the water tower and a bike.

"I usually love my pictures to be very colorful, full of imagination," said Chen, who is known to give artwork to friends and professors. "I wanted to leave something for the viticulture and enology department."

The student winemakers also helped label and bottle the wines, working a commercial mobile bottling line in a trailer behind the winery.

"To see it being bottled is coming full circle for all of us," master's student Megan Hill said.

Block feels the same way. "I want to buy the first bottle of wine," he said.

Wines will range in price from \$30 to \$40 per bottle for student labels and from \$50 to \$125 per bottle for the Oakville wines. The winery is bonded and meets federal regulations for commercial wine sales. More information can be found at the Hilgard631 website.





# Subscribe to California Farm Equipment

**Digital - FREE Subscription • Print - Paid Subscription**

California Farm Equipment (CFEM) has assisted in the "Growth" of the Agriculture Business for over 40 years. The structure of the magazine has proven, over the years to be of great value in the agriculture world. Each issue contains small to large equipment for sale, new products, up-to-date editorial, research and technology updates, along with agribusiness news.

CFEM is published monthly. Subscribe now and get each issued delivered to your mailbox or your digital issue delivered to your inbox monthly.

## Subscription - Print

- ☐ **Annual Subscription \$18.00** 12 issues delivered to your mailbox monthly.  
☐ **3 Year Subscription \$36.00** 36 Issues delivered to your mailbox monthly. (One year free)  
 (Check the subscription you want to subscribe to)  
 International Subscribers call (559) 627-2182

### Billing Information

First Name \_\_\_\_\_  
 Last Name \_\_\_\_\_  
 Email \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

### Card Details

☐ Visa ☐ MasterCard ☐ American Express

Cardholder Name \_\_\_\_\_  
 Account Number \_\_\_\_\_  
 Expiration Date \_\_\_\_ / \_\_\_\_  
 CVV \_\_\_\_\_ Zip Code \_\_\_\_\_

\*We do not share or sell your information.



## Sign Up for our FREE Digital Subscription

Delivered to your Inbox monthly.

First Name \_\_\_\_\_  
 Last Name \_\_\_\_\_  
 Email \_\_\_\_\_

Website: [www.cfemag.com](http://www.cfemag.com)

Email: [info@cfemag.com](mailto:info@cfemag.com)

\*We do not share or sell your information.

Mail form to: CFEM • P.O. Box 1128 • Visalia, CA 93279 or Email to: [info@cfemag.com](mailto:info@cfemag.com)

# Marketing Support For California Avocados

*Promotable Volume Expected Well Into August*



*"Photo courtesy of the California Avocado Commission."*

Marketing efforts for California avocados are running at full steam in support for California Avocados. The California Avocado Commission's marketing campaign includes consumer advertising, social media, public relations and influencer activities as well as customized programs for participating retailers and foodservice operators. The Commission reports that advertising impressions through April alone exceeded 31 million, and its social media performance is surpassing both CAC's goals and industry benchmarks.

"California avocado social media is hitting way out of the park this season," said Terry Splane, CAC vice president of marketing. "For example, our 'Now In Season' video skyrocketed on TikTok with more than 1 million views. The platform currently ranks that video in the top 25% in impressions, clicks and click-through rate meaning it outranks 75% of all videos in the industry."

CAC's public relations and influencer efforts this spring are creating excitement about the fruit's availability and have included the distribution of a season opener pre-written story for placement in key regional media outlets, an influencer event at Bristol Farms in Santa Barbara, a California avocado grove tour for media, influencers and customers as well as partnerships with influencers to create branded content to share on their social platforms. Collectively, these PR and influencer activities have resulted in coverage of California

avocados with a reach of more than 170 million impressions.

To promote the fruit's peak season timeframe, CAC supported California Avocado Month in June through the distribution of a press release to key regional consumer media, and two broadcast segments were secured in the local California markets of Fresno and Sacramento. The Commission also partnered with influencers who developed California Avocado Month themed content that was running across their platforms and have worked with retailers and foodservice operators to help them

develop and promote California Avocado content on their social channels. Other spring and summer customer programs include advertising and social media support, sales and display contests and more.

"Commission marketing has really been coming on strong in spring" said Splane. "The California avocado crop was about 40% harvested by the end of May, and CAC has a robust program of advertising and promotion to support the remaining volume continuing into this summer."

Spring through summer means peak availability of California avocados. The Commission's crop forecast calls for very strong volume in most of July, ranging from 11 to nearly 17 million pounds per week. The harvest is expected to wind down gradually from August into September.



*IT'S TIME FOR THE MOST POWERFUL  
YEAR-ROUND TRACTOR THE WORLD  
HAS EVER EXPERIENCED.*



**This is the Fendt® 1000 Series**, German-engineered and so unique they had to give it its own power output category. At more than 500 HP, these are machines you can put to work 365 days a year. Literally, every component has been built to deliver maximum power — and use less fuel to do it. Life is full of compromises, but your tractor shouldn't be one of them. Learn more at [fendt.com](https://fendt.com) or visit [Empire Agriculture](https://empireag.com).

**FENDT**  
fendt.com | Fendt is a worldwide brand of AGCO.

*IT'S FENDT. IT'S TIME.*



**190 S. Intake Blvd., Blythe, CA 92225 | (760) 921-9500**  
**3393 Highway 86, Imperial, CA 92251 | (760) 355-2443**  
[www.empireag.com](https://www.empireag.com)

© 2024 AGCO Corporation. Fendt is a worldwide brand of AGCO Corporation. AGCO® and Fendt® are trademarks of AGCO. All rights reserved.

## World Ag Expo® Donates Over \$91,000 to Valley Children's Healthcare from Toyota Tundra Giveaway

**T**he International Agri-Center®, World Ag Expo®, and the Central Valley Toyota Dealers proudly presented a check for \$91,442.32 to Valley Children's Healthcare during the All Guild Picnic held on May 28 in Madera, California. This generous donation marks another milestone in an ongoing partnership that has, since 2015, raised over \$875,000 to support Valley Children's Healthcare.

The funds were raised through the Guilds of Valley Children's Healthcare, whose dedicated members sold tickets for the World Ag Expo Toyota Tundra Giveaway. Every ticket purchased offered a chance to win a new 2025 Toyota Tundra, with proceeds directly benefiting Valley Children's Healthcare and the families it serves.

"The Guilds of Valley Children's are grateful for 11 years of partnership with World Ag Expo and Central Valley Toyota Dealers to help fulfill our mission," said Marla McClaskey, Chair of the Guild Coordinating Council. "These partnerships, along with the amazing generosity of our community, make possible the continued success of the Toyota Tundra Giveaway, benefitting Valley Children's and the patients and families it cares for."

The 2025 Toyota Tundra, donated by the Central Valley

Toyota Dealers—the Official Truck of World Ag Expo—was won by Jayson Wertenberger of Fresno, CA on the final day of World Ag Expo.

"The Toyota Tundra Giveaway is more than just a tradition at World Ag Expo; it's a meaningful way we give back to the community," said Jerry Sinift, Chief Executive Officer of the International Agri-Center. "We're incredibly proud to present this donation to Valley Children's Healthcare, an organization that makes a real difference in the lives of families across the region. We're honored to be part of it."

**About Valley Children's Healthcare**

Valley Children's Healthcare has provided high-quality, comprehensive healthcare to children in Central California for nearly seven decades. With a commitment to excellence, compassion, and innovation, the organization continues to serve thousands of families each year.

**About World Ag Expo®**

Celebrating its 58th year, World Ag Expo® is the world's largest annual agricultural exposition, drawing over 100,000 attendees from across the globe. Hosted by the International Agri-Center®, the event showcases cutting-edge technology, education, and networking opportunities for the agricultural community.

# Fire Ants Found to Carry Virus Linked to Honey Bee Decline



*The top half of this wheat head is infected with Fusarium Head Blight, a costly fungal disease that can diminish the grain yield and quality of wheat, barley and certain other cereal crops.*

*(Photo Credit: Mathew Helm, ARS)*

## USDA Research Reveals Unexpected Host in Ongoing Study of Pollinator Threats

Scientists with the U.S. Department of Agriculture's Agricultural Research Service (ARS), working alongside Mississippi State University, have made a surprising discovery that could reshape how we approach two persistent agricultural challenges: fire ants and honey bee health.

New research reveals that Deformed Wing Virus (DWV)—a major contributor to honey bee colony loss—is replicating in both red and black imported fire ants, long known for their invasive impact on ecosystems, crops, and wildlife. Until now, fire ants weren't considered a player in the spread of honey bee diseases.

"This is the first time we've demonstrated DWV replication in fire ants," said Dr. Jian Chen, research entomologist at the ARS Biological Control of Pests Research Unit in Stoneville, Mississippi. "It raises important questions about whether ants could play a role in transmitting the virus among insect populations."

DWV is a serious RNA virus widely spread by Varroa mites, causing wing deformities, shortened abdomens,

and neurological issues in honey bees. Affected colonies experience reduced productivity and often collapse entirely. With honey bees responsible for pollinating many of the crops that sustain the American food supply, any threat to their health has widespread implications.

Researchers collected samples from fire ant colonies in Mississippi and found both DWV variant A—the original strain—and variant B, which is currently spreading rapidly across bee populations worldwide. Genomic sequencing confirmed the virus was actively replicating inside the ants, a sign they may serve as potential viral hosts rather than passive carriers.

Even more concerning, infected fire ants exhibited symptoms eerily similar to those seen in bees: misshapen wings, impaired movement, and abnormal behavior. While it's still unclear whether DWV is the direct cause of these symptoms in ants, the parallels are drawing serious attention.

The connection between bees and fire ants may be closer than previously believed. Both species forage for sugary food sources like nectar and honeydew, and fire ants have been observed scavenging on dead bees—sometimes within apiaries.

"Fire ants are a common presence in bee yards, especially in regions where they're well established," Chen noted. "Their frequent interaction with bees and bee products makes this an important area of study moving forward."

Fire ants infest more than 367 million acres across the United States and contribute to over \$6 billion in annual damages. Understanding how they interact with pathogens like DWV could open the door to innovative pest control strategies—while also aiding efforts to safeguard honey bee populations.

Further research is underway to determine whether fire ants can transmit DWV to honey bees or other insects, and how this newly discovered relationship may influence disease dynamics in the wild.

*Source: Jessica Ryan*

## Stop By and See Your Local New Holland Dealer Today!

### FAIRFIELD

GARTON TRACTOR INC.  
707-425-9545

### FRESNO

GARTON TRACTOR INC.  
(Kuckenbecker Tractor)  
559-485-9090

### KING CITY

COASTAL TRACTOR CO.  
831-385-5401

### MADERA

GARTON TRACTOR INC.  
(Kuckenbecker Tractor)  
559-674-2496

### MERCED

N&S TRACTOR CO.  
209-383-5888

### MODESTO

GARTON TRACTOR INC.  
209-538-0911

### NEWMAN

GARTON TRACTOR INC.  
209-862-3760

### PASO ROBLES

COASTAL TRACTOR CO.  
805-239-5772

### RIO VISTA

DOLK TRACTOR CO.  
707-374-6438

### SALINAS

COASTAL TRACTOR CO.  
831-757-4101

### SANTA ROSA

GARTON TRACTOR INC.  
707-586-1790

### STOCKTON

GARTON TRACTOR INC.  
209-948-5401

### STRATFORD

N&S TRACTOR CO.  
559-947-3301

### TULARE

GARTON TRACTOR INC.  
559-686-0054

### TURLOCK

GARTON TRACTOR INC.  
209-632-3931

### UKIAH

GARTON TRACTOR INC.  
707-468-5880

**Solutions for a changing world!**



# TIGHTER TURNS MADE EASY.



The New Holland T4F specialty tractor delivers the shortest FWD row-to-row turning in its class. Its turning angle? An unmatched 76 degrees thanks to the exclusive SuperSteer™ FWD axle. So you'll work with greater maneuverability in the narrowest rows and most confining outbuildings. Work on hills? Automatic traction control engages FWD for optimum traction, braking and steering only when needed. Choose from four models offering 65 to 93 PTO hp.

**Take the tightest turns with ease in a new T4F specialty tractor.  
Stop in today or visit [newholland.com](http://newholland.com).**





## APPRAISALS

### Taylor AG Equip. Appraisals

ASAA Certified 34 Years  
ASFMRA 2014  
USPAP & Valuation  
Retail AG Sales 40 + Years  
**916-806-7431 David**

## FARM EQUIPMENT

**1500 Gallon Water Tank Trailer.** Has good running Honda pump. Good condition. \$2500 cash. Call 559-284-5940

**2000 F250 SUPER DUTY V8.** Has 7.3L engine, 331,000 miles, 2 new batteries \$5,500.00  
Call 559-740-8444



**2000 MF 394 Tractor, Cab, 4WD,** Front/Rear Brakes, \$14,500.  
**150 Gallon 3 Pt., Rears Pak Blast 100** Far Sprayer \$1,000. For More Info Contact Phil Marcucci (707) 546-3727 or marcuccifarms@comcast.net



**DURAND WAYLAND - Sprayer** 1706A, 500 gallon orchard sprayer, 6 cylinder engine, stainless steel tank, \$30,000.00 OBO  
Call Jim (209) 614-9486

## RENTALS

**RENTALS:** We Rent Farm Equipment. Linder Equipment Co., Tulare, CA. 559-685-5000.

## PACK MACHINE

- 16 pack stations
  - 2 variable speed belts (20 in. x 35 ft.)
  - attached 8 ft. rotating tub
  - and exit conveyors
- .....\$23,000.00  
**Call**  
**530-570-7211**



**PUMA 200 RENTAL #ZGES03031 200 PTO HP,** FRT: 380/85R30 RT: 380/90R46 w/ duals, RW: 1,100 LBS, GPS ready, 3 Electronic remotes, Warranty: only warranty 6/21/21 warranty end date or 5000 hrs. Whichever comes first, Hours 3511 .....Call for Price

**PLUS More Rentals to Choose From**  
**LINDER EQUIPMENT CO.**  
**559-685-5000**



## AUCTIONEERS & APPRAISERS

**Office 209-366-0600 Fax 209-366-1113**  
Mailing Address: PO Box 88, Lockeford, CA 95237  
info@mulrooneyauction.com • www.mulrooneyauction.com

### Edward J Chadwick

## YAKIMA'S BEST LOGISTICS LLC

**"For Your Next Shipment Call**  
**YAKIMA'S BEST LOGISTICS LLC**  
**for a quick response and competitive rate"**

• FLATBED  
• DRY VAN  
• REFRIGERATED  
• HOTSHOT CARRIERS AVAILABLE

**509.833.7880**  
**ed@yvlogistics.com**



**2022 Massey ferguson 1840E MFWD, 40** HP, 36 Hours ..... \$16,850.00  
**San Joaquin Tractor Co.**  
Bakersfield, California 93305  
Phone: (661) 705-6133

## WANTED - MISC.

**CAT D4 7U Series** wide gauge w/CAT bulldozer blade, CAT front pump & hydraulic cylinder.  
**Speedstar 71** Cable tool Drill Rig w/6" bit tool string & bailor.  
**Colt/Fairbanks** - Morse semi-modern 1 cyl. engine w/condensor radiator/fan on top of hopper, 6 hp.  
**Massey Ferguson 4WD** Skiploader.  
**Tim at 661.733.7677**  
(Palmdale)

## WANTED

**FORD BACKHOE** for a Ford 4500, 450 Industrial 2000 old gas Skiploader w/bucket.  
**FORD NAA JUBILEE 1953** Flathead Tractor.  
**INTERNATIONAL TD9** Bulldozer, has B&E side/arms, front pump, angle blade.  
**CAT D4 7U SERIES** (1948 TO 1960) Bulldozer w/Cat hydraulic system. For Cat D2, D4 Tractors; BE-GE rear pump.  
**Tim at 661.733.7677 • 661.492.9057**  
(Palmdale, Antelope Valley)

## Don't Forget to Pray!

- Pray for your people and your products.
  - Pray for your grounds and your gear.
- If you would like prayer support  
**Call Kevin**  
**925-765-4849**

## GOULD AUCTION & Appraisal Co. LLC

*Integrity, Experience, Results*

**- CONSIGNMENTS WELCOMED -**  
**- Free Estimate on site Appraisal's or Auction Proposal -**

**Office (661) 587-3123 • Jerry (661) 333-3040**

**6200 Price Way, Bakersfield, Ca. 93308**

**Bond # Ca MS150-49-03 USA MS2892233**

**Website: www.gouldauction.com E-Mail: Gouldhitch@aol.com**



## SUMMER SALE!



**2003 Agco LT85 cab 4-wheel drive,** 1567 hrs., # LZE030 .....\$35,000\*



**2023 AGRIEASE BE DH1618N DISK, NEW** # NXE214..... \$2,500\*



**2022 AIR-O-FAN NT32R Pull Type Orchard** Sprayer 500 Gal., # NXE016 ..... \$31,750\*



**2024 BAD BOY MZ RAMBLER 4200 NEW** Zero Turn Lawn Mower # LXE401.... \$6,499\*



**1-888-246-0892**

**www.nstractor.com**

**QUALITY EQUIPMENT & SUPERIOR**  
**CUSTOMER SERVICE**

\*Plus tax, shipping, etc.



# Run It Til It **SELLS!**

“Let us help you sell your equipment-  
with one low-cost classified ad!”  
...and as an added bonus we'll list your  
classified ad on the world wide web  
for no additional charge!  
**Use this order form to place your ad  
or give us a call today!**

- Minimum ad size is 15 words.
- Mail order form and payment to:

California Farm Equipment Classifieds  
P.O. Box 1128  
Visalia, CA 93279-1128

- Or call in your ad Today!

**559-627-2182**

A friendly classified representative will help you with your ad.  
Please have your credit card ready when you call.

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

Method of payment enclosed:: ☐ Check ☐ Money Order

Credit Card: ☐ Visa ☐ MasterCard ☐ American Express

Account Number \_\_\_\_\_ CID# \_\_\_\_\_

Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

# of Words in Ad? \_\_\_\_\_ Month ad should appear in: \_\_\_\_\_

What Category to run ad under: \_\_\_\_\_

Fill out below exactly how your ad should appear. Please print  
clearly- One word per line. Phone number is one word.

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	15-\$19.00
16-\$19.90	17-\$20.80	18-\$21.70	19-\$22.60	20-\$23.50
21-\$24.40	22-\$25.30	23-\$26.20	24-\$27.10	25-\$28.00

## UPCOMING EVENTS

### JULY 2025

16: Sustainable Groundwater Panel – Center for Land Based Learning's Speaker Series. Center for Land Based Learning 40140 Best Ranch Rd, Woodland, CA. Come enjoy wood-fired pizza and beverages as we discuss the present and future of sustainable groundwater in the region, featuring panelists from CAFF. Suggested donation \$20. For more information visit: <https://caff.org/event/sustainable-groundwater-panel-center-for-land-based-learning-speaker-series/>

24: Crisis Management Webinar | English. Crisis management starts with having a plan. The work does not end there. Too many times, safety plans, including crisis management plans, are developed and shelved. Implementation includes identification of roles, identification of methods of communication, evaluation of potential liabilities, information management, and training of all of those who are part of the plan. <https://web.agsafe.org/atlas/events/4167/details>

### AUGUST 2025

14-15: Midyear Meeting and Cattle-PAC Auction + Dinner Dance. The meeting AND the Cattle PAC fundraiser will be held at the Paso Robles Event Center (California Mid-State Fairgrounds). For more information call (916) 444-0845 or visit: <https://calcattlemen.org/event/2025-midyear-meeting-and-cattle-pac-auction-dinner-dance/>

### SEPTEMBER 2025

11-12: California Poultry Federation Annual Conference and Meeting, Monterey Plaza Hotel & Spa Monterey, CA. The Board Meeting is Friday, September 12th. For questions about the conference, please contact the CPF office at (209) 576-6355.

### DECEMBER 2025

3-5: 109th Annual CCA/CCW Convention. The 2025 California Cattlemen's Association and California Cattlewomen's Convention and California Cattle Industry Tradeshow. For the first time, our largest gathering of the year will be held at the Atlantis Casino Resort Spa in Reno, Nevada. For information call (916) 444-0845 or visit: <https://calcattlemen.org/event/109th-annual-cca-ccw-convention/>

To list your special event in California Farm Equipment send details to CFEM, PO Box 1128, Visalia, CA. 93279. or email to: [info@cfemag.com](mailto:info@cfemag.com).

### FOR SALE

**10-1/2' hydraulic disc .....\$1,850.00**  
**Rears Mower .....\$6,200.00**  
**3 PT. Equipment**  
**3 blade ridger .....\$2,250.00**  
**3 shank ripper .....\$2,000.00**  
**12 ft. spring tooth with harrow .....\$1,000.00**  
**Call John - leave message or text (209) 988-8440**

# CDFA and Partner Agencies Urge Summer Travelers: Don't Pack a Pest

---

As families gear up for July 4th holiday and summer getaways, the California Department of Food and Agriculture (CDFA) is teaming up with federal and local partners to share an important message: leave fresh fruits, vegetables, and meat products out of your luggage. While these items may seem harmless, they can carry dangerous pests and diseases that threaten California's agriculture and environment.

The "Don't Pack a Pest" campaign—launched in collaboration with U.S. Customs and Border Protection (CBP), the U.S. Department of Agriculture's Animal and Plant Health Inspection Service (USDA-APHIS), and county agricultural commissioners—aims to raise awareness about how invasive species travel. These pests often hide inside seemingly innocent produce or plant materials, hitching rides across borders and state lines.

"Invasive pests and plant diseases can wreak havoc—not just on farms, but in our own backyards and communities," said CDFA Secretary Karen Ross. "Whether you're flying home from abroad or taking a summer road trip, we're asking everyone to do their part and avoid bringing agricultural products that could cause harm."

Travelers arriving in California are reminded to leave behind fruits, vegetables, and meats. If carrying plant material, they're encouraged to declare it for proper inspection to ensure it poses no threat.

CBP Port Director at LAX, Andrew H. Douglas, noted that agriculture specialists are stationed at major ports of entry to spot and stop harmful pests. "You may even meet our 'Beagle Brigade'—specially trained dogs who sniff out contraband items in luggage. They're a friendly but vital part of our front-line defense."

The warning comes on the heels of a record-setting year for pest outbreaks. In 2023, California faced its most widespread invasive fruit fly infestation in over a century. Quarantines were set up across the state to limit damage, impacting both commercial growers and residents' home gardens.

Currently, two fruit fly quarantine areas remain active: one in Alameda and Santa Clara counties for the Mediterranean Fruit Fly, and another in Orange County for the Oriental Fruit Fly. These efforts are key to protecting California's \$50 billion agriculture sector and the diverse ecosystems it supports.

The message from officials is simple: think twice before you pack that mango or homemade sausage. Invasive pests can be more than an inconvenience—they can devastate farms, raise food prices, and limit what we can grow in our own yards.

To learn more about what not to pack and why it matters, visit [DontPackaPest.com](https://DontPackaPest.com). By staying informed and making smart choices, travelers can help protect California's farms, neighborhoods, and natural beauty for generations to come.

---

## USDA Research Links Honey Bee Colony Collapses to Viruses Spread by Miticide-Resistant Parasitic Mites

---

Scientists at the U.S. Department of Agriculture's Agricultural Research Service (USDA-ARS) have traced a sharp rise in U.S. honey bee colony collapses to high levels of deformed wing virus A and B and acute bee paralysis virus—pathogens spread by parasitic Varroa destructor mites that have developed resistance to a commonly used miticide.

These findings, submitted for peer review, come amid reports from commercial beekeepers of staggering colony losses beginning in January 2025. Over 60% of commercially managed hives—representing 1.7 million colonies—were lost since the previous summer, with estimated damages totaling \$600 million.

"Our nation's food supply thrives, and is sustained, by the work of our pollinators," said Acting ARS Administrator Joon Park. "USDA scientists continue to research major stressors and new parasite treatment strategies, which will help reduce the agricultural challenge presented by the Varroa mites in honey bee colonies."

ARS researchers sampled hives in California and across the western United States before the 2025 almond pollina-

tion season. Lab analysis at the ARS Bee Research Laboratory in Beltsville, Maryland, detected viral infections in both colony-wide samples and individual bees showing pre-death behavioral symptoms. Crucially, Varroa mites collected from these hives showed widespread resistance to amitraz, one of the few miticides available to beekeepers.

"While viruses are a likely end-stage cause of colony death, these results do not rule out the importance of other long-known challenges to honey bees," noted Dr. Judy Chen, ARS Research Leader.

With pollination services from *Apis mellifera*—the western honey bee—supporting more than one-third of the U.S. food supply and over \$20 billion in crops annually, the implications of these findings are far-reaching. Globally, bee-dependent agriculture is valued at nearly \$387 billion.

USDA-ARS will continue monitoring colonies for additional stressors and evaluate strategies to combat parasite resistance and viral spread to safeguard pollinator health and food production.





## KUBOTA M SERIES

# Versatility. It runs in the family.

Handle just about anything the farm throws at you with the Kubota M Series. An ergonomic design provides all-day comfort. Powerful and efficient engines handle big jobs. And Kubota designed and built fronts.

**Visit your Kubota dealer today for a demo!**

**KubotaUSA.com**

### FRESNO

Pioneer Equipment Co.  
559-486-7580

### MERCED

Garton Tractor, Inc.  
209-726-4600

### MODESTO

Garton Tractor, Inc.

### NEWMAN

Garton Tractor, Inc.  
209-862-3760

### PORTERVILLE

Farmers Tractor  
559-784-4967 • 800-533-4967

### REEDLEY

Pioneer Equipment Co.  
559-638-9201

### RIO VISTA

Dolk Tractor Company  
707-374-6438

### SANTA ROSA

Garton Tractor, Inc.  
707-586-1790

### STOCKTON

Garton Tractor Inc.  
209-948-5401

### TULARE

Linder Equipment Company  
559-685-5000

### TURLOCK

Garton Tractor, Inc.  
209-632-3931 • 877-872-2867

### UKIAH

Garton Tractor, Inc.



\* © Kubota Tractor Corporation, 2025. This material is for descriptive purposes only. Kubota disclaims all representations and warranties, express or implied, or any liability from the use of this material. For complete warranty, safety, incentive offer and product information, consult your local dealer or go to KubotaUSA.com. 24 Months or 15,000 Bales (whichever occurs first).

### Auctions/Appraisals

**Gould Auction**  
.....www.gouldauction.com

**Mulrooney Auction**  
.....www.mulrooneyauction.com

**Taylor Ag Equipment Appraisals**  
www.linkedin.com/in/david-g-taylor-b4226a19

### Equipment

**Agco Corporation**  
.....www.agcocorp.com

**American Loan Masters**  
.....www.pjtrailers.com/stores/  
american-loan-masters/

**Bobcat Central**  
.....www.bobcatcentral.com

**Case Corporation**  
.....www.caseih.com

**Coastal Tractor Company**  
.....www.coastaltractor.com

**Dolk Tractor Company**  
.....www.dolktractorcompany.com

**Donahue Corporation**  
.....www.donahuetrailers.com

**Empire Agriculture**  
.....www.empireag.com

**Exeter Mercantile**  
.....www.exetermercantile.com

**Farmers Tractor**  
www.farmerstractorandequipment.com

**Garton Tractor Inc**  
.....www.gartontractor.com

**Grasshopper**  
.....www.grasshoppermower.com

**Hanford Equipment Company**  
.....www.hanfordequipmentco.com

**Kubota Corporation**  
.....www.kubotausa.com

**LAFORGE Systems Inc**  
.....www.laforgegroup.com

**Lane Tractor Sales Inc**  
.....www.lanetractor.com

**Linder Equipment**  
.....www.linderequipment.com

**Live Earth**  
.....www.liveearth.com

**Massey Ferguson**  
.....www.masseyferguson.com/en\_us

**N & S Tractor**  
.....www.nstractor.com

**New Holland**  
agriculture.newholland.com/en-us/nar

**Pacific Ag Rentals**  
.....www.pacificagrentals.com

**Peltzer Enterprises Inc**  
.....www.peltzerenterprises.com

**Pioneer Equipment**  
.....www.pioneerequipment.com

**Plantel Nurseries**  
.....www.plantelnurseries.com

**Powerland Equipment**  
.....www.powerlandequipment.com

**Precision Air Systems Inc**  
.....www.precisionairsystems.com

**Quality Machinery**  
.....quality-mc.com

**Quinn Company**  
.....www.quinncompany.com

**Rubicon Equipment**  
.....www.rubiconequipment.com

**San Joaquin Tractor**  
.....www.sanjoaquintractor.com

**Sonsray Machinery**  
.....www.sonsraymachinery.com

**South Kern Machinery**  
.....www.kernmachinery.com

**Tractor City Inc**  
.....www.tractorcityinc.com

**Trailer Superstore**  
.....www.pjtrailers.com/stores/  
trailer-super-store/

**Valley Forklift Inc**  
.....www.valleyforklift.com

**Valley Tractor**  
.....www.valleytractor.com

**Wilkinson International**  
.....www.wilkinsoninternational.com

### Manufacturers

**McIlroy Equipment**  
.....www.mcilroyequipment.com

**Nikkel Iron Works**  
.....www.nikkelironworks.com

**Smith Welding & Machine Shop**  
.....www.smithweldingshop.com

### Farm Shows

**Antique Farm Show**  
.....www.antiquefarmshow.org

**Colusa Farm Show**  
.....www.colusafairgrounds.com/  
colusa-farm-show/

**World Ag Expo**  
.....www.worldagexpo.com/

### Federal Government

**Army Corps of Engineers**  
.....www.nwpl.sec.usace.army.mil

**Bureau of Land Management**  
.....www.blm.gov

**Farm Service Agency**  
.....www.fsa.usda.gov

**National Weather Service**  
.....www.weather.gov/

### Organizations

**Almond Board of California**  
.....www.almonds.com

**California Assn. of Winegrape Growers**  
.....www.cawg.org

**California Cattlemen's Association**  
.....www.calcattlemen.org

**California Dairy Research Foundation**  
.....www.cdfrf.org

**California Poultry Federation**  
.....www.cpif.org

**California Raisins**  
.....www.calraisins.org

**California Rangeland Trust**  
.....www.rangelandtrust.org

**California Strawberries**  
.....www.californiastrawberries.com

**Associated Equipment Distributors**  
.....www.aednet.org/

### Real Estate

**Valley Real Estate**  
.....www.valleyre.net

### State Government

**Department of Agriculture**  
.....www.usda.gov

**Department of Conservation**  
.....www.consrv.ca.gov

**Department of Food and Agriculture**  
.....www.cdfrf.ca.gov

**Department of Pesticide Regulation**  
.....www.cdpr.ca.gov

**Department of Water Resources**  
.....www.dwr.water.ca.gov

### Synthetic Grass

**Synthetic Grass Solutions**  
.....www.SGSfresno.com

### Weather

**National Weather Service**  
.....www.weather.gov/

If you would like to have your website listed here contact us at:

Website: [californiafarmequipment.com](http://californiafarmequipment.com)

Telephone: (559) 627-2182

E-mail: [info@cfemag.com](mailto:info@cfemag.com)



# FREE CLASSIFIED ADS



**REACH YOUR  
AUDIENCE EASILY**

**FREE AD  
POSTING**

◆ **DISCOVER THE POWER OF FREE CLASSIFIEDS** ◆

**VISIT OUR WEBSITE TODAY: [www.cfemag.com](http://www.cfemag.com)**

# Justin Vineyards & Winery Awards \$350,000 To Nonprofits and Classrooms

*Annual Community Grants Program Has Funded More Than \$2 Million in Vital Non-profit Services and Education Across Paso Robles*



**J**USTIN Vineyards & Winery has awarded \$350,000 to support nonprofit organizations and educators in North San Luis Obispo County through its 2025 Community Grants program. This year, \$300,000 has been distributed to local nonprofits to strengthen services in healthcare, education, youth development, senior support, and environmental stewardship, with an additional \$50,000 going to classroom grants, helping teachers fund classroom supplies, field trips, and other enrichment activities that foster student-centered learning. Since its inception in 2013, the JUSTIN Community Grants Program has provided more than \$2.1 million in funding to local nonprofits and classrooms.

“Paso Robles is more than just the place we work. It’s home to our employees, their families, and so many who make this region special,” said Molly Scott, senior director of grower and community relations at JUSTIN Vineyards & Winery. “We’re proud to invest in local organizations that uplift and strengthen our community. Their work ensures Paso Robles continues to be a vibrant and supportive place for all.”

Some of this year’s funding will directly support:

- Community Health Centers of the Central Coast (CHCCC) – Expanding access to healthcare through mobile medical units serving low-income patients.
- Tolosa Children’s Dental – Upgrading IT systems at two pediatric clinics to continue providing critical dental care to underserved children.
- One Cool Earth – Supporting garden-based education for 4,500 students at Title I Elementary and Middle schools.
- Senior Volunteer Services – Enhancing safety and

accessibility for over 3,000 seniors and visitors annually at the Paso Robles Senior Center.

- Paso Robles Youth Art Center – Equipping the new JUSTIN Culinary Teaching Kitchen to provide culinary education to 640 low-income youth each year.

“Thanks to the support of JUSTIN, we can continue bringing essential health services directly into the communities that need them most,” said Ronald Castle, chief executive officer, Community Health Centers of the Central Coast, Inc. “This funding allows us to expand access and improve outcomes for individuals and families across the region.”

The full list of 2025 JUSTIN Community Grants recipients includes: Central Coast State Parks Association; Community Health Centers of the Central Coast; Creston Activities Town Center (CATCH); El Paso de Robles Pioneer Museum Foundation; Land Conservancy of San Luis Obispo; One Cool Earth; Paso Robles Joint Unified School District; Paso Robles Library Foundation; Paso Robles Youth Arts Center; Senior Citizens United; Senior Volunteer Services; Studios on the Park; Templeton Community Library Association; Templeton Instrumental Music Boosters Association; Templeton Performing Arts Center Foundation; and Tolosa Children’s Dental.

Grant recipients are selected by a committee of JUSTIN employees who review applications for local projects that provide tangible benefits to the greater Paso Robles community. Applications open annually in January. For more information and updates about the Community Grants program, visit [www.justinwinegrants.com](http://www.justinwinegrants.com). To learn more about The Wonderful Company’s broader corporate social responsibility efforts, visit [csr.wonderful.com](http://csr.wonderful.com).





# "STOP MUST READ" \*MASSIVE SAVINGS!!!

## IF YOU HAVE 10K, 15K, 20K SQ. FT. OR MORE - GET YOUR SYNTHETIC GRASS INSTALLED FOR **\$7.50** SQ. FT.

INSTALLATION, LABOR AND TAX INCLUDED.

**WE'VE BEEN TAKING CARE OF PROPERTIES SINCE 2010**

☑ FARMERS ☑ RANCHERS ☑ COMMERCIAL ☑ RESIDENTIAL

Synthetic  
Grass



**A Lawn  
You Can Be  
Proud Of!**

From a family owned  
company you can  
depend on.



**STOP WASTING WATER! GO SYNTHETIC!**



We Specialize in Commercial & Residential Properties

**SGS**

**Synthetic Grass  
Solutions**

*Locally and Family Owned Since 2010!*

Call us. We can help.

**559-917-6901**

visit us online at [www.SGSfresno.com](http://www.SGSfresno.com)

Lic #1046023

## SUMMER DEALS!

### Compressor-Welder-Generators

- Industrial grade gas or diesel engine
- Industrial grade welder/generator
- Heavy duty industrial compressor pump
- Belt guard after cooler
- Battery mounted and wired
- Electric start engine
- Vibration pads
- Stainless steel flex lines
- Automatic tank drain
- Freight pre-paid in lower 48 states and southern Canada



**Reciprocating**  
Compressor  
Welder  
Generator



**Rotary Screw**  
Compressor • Welder • Generator



**Give us a call. We can help you find the equipment to meet your needs, no matter how big, small, or rugged the job may be.**

**PRECISION**  
AIR SYSTEMS, INC.

**661.631.2295 Toll Free 866.270.5520**

**JACOB "JAKE" DUNCAN**  
[jduncan@precisionairsystems.com](mailto:jduncan@precisionairsystems.com)

**TOM DUNCAN**  
[tduncan@precisionairsystems.com](mailto:tduncan@precisionairsystems.com)