

California Farm Equipment Magazine

AUGUST 2023 Volume 42 • Number 8

www.californiafarmequipment.com



\$0 DOWN **0%** APR UP TO **48** MONTHS

**FOR YOUR KUBOTA DEALER AND
INFORMATION SEE PAGE 21**



HIGHER HORSEPOWER. **LOWER CLEARANCE.**

Hard-working Farmall® utility A series tractors combine high horsepower, advanced features, excellent comfort and outstanding value. Available in three new models ranging from 97 engine hp to 120 engine hp, Farmall 95A/105A/115A tractors are rugged, reliable and easy to operate – enabling you to tackle the toughest chores around your operation. Engineered with a heavier weight than the competition and the option of front 2WD or MFD, these tractors are available in a cab configuration or two options of non-cab configurations: standard or low profile for poultry and specialty crop operations.

For more information visit caseih.com or contact your local Case IH dealer.



Case IH and Case IH Invaluable Capital are trademarks registered in the United States and many other countries, owned by or licensed to CNH Industrial N.V. or subsidiaries or affiliates.

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

OXNARD

Diamond A Equipment
805-485-2103

SALINAS

Sonsray Machinery
831-240-0378

SANTA MARIA

Diamond A Equipment
805-621-7830

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

USDA Final Forecast Projects Slightly Larger 2023 Almond Crop

Harvest 2023 expected to be up 1% percent from 2022 despite stormy bloom and cool spring.



The 2023 California Almond Objective Measurement Report published Wednesday by the U.S. Department of Agriculture's National Agricultural Statistics Service (USDA-NASS) estimates that the crop harvested in 2023 will come in at 2.6 billion meat pounds, 1% percent above last year's 2.57 billion pounds.

The estimate is up 4 percent from USDA-NASS's Subjective Forecast in May and comes after one of the wettest winters on record, limited bee flights because of rain and wind, and a cool spring. USDA's Forecasted yield is 1,880 pounds per acre, down 20 pounds from 2022 and the lowest since 2009.

The slight increase comes partly because of larger nut size and despite difficult conditions, USDA-NASS said. "Record level rainfall and unprecedented stormy conditions hindered bee pollination activity in orchards across the state. Cooler than normal temperatures continued through early summer and delayed the maturity of the crop," the report said.

"Almond farmers have faced a series of challenges in recent years, and this wet, cool winter and spring created different obstacles after three years of drought. Yet the forecast for a larger crop shows the resiliency of California almond orchards,"

said Richard Waycott, president and CEO of the Almond Board of California (ABC). "Almond farmers have worked hard while dealing with higher production and financing costs and a bloom with highly compromised bee flight hours. They are very thankful, however, for the abundant rain and snow which vastly improved the water situation, at least for now, and for shipping logistics that continue to improve. The perseverance of California's almond farmers is admirable as is their commitment to meet future growth in global demand with high quality California almonds."

The forecast for the average nut set per tree is 3,953, 3 percent down from 2022. The Nonpareil average nut set of 4,004 is 1 percent more than last year. The average kernel weight for all varieties sampled was 1.67 grams, up 14% percent from the 2022 average weight. The Nonpareil average kernel weight was 1.69 grams, up 9 percent over from last year.

The 2023 Objective Report is based on actual almond counts using a statistically rigorous methodology. The survey was conducted from May 26 to July 3 and 1,824 trees were sampled in 912 orchards, 32 more orchards than in 2022.

Flavorful Grape Recipes

to Take Summer Gatherings to the Next Level

Family Features

Summertime celebrations with friends, family and neighbors are a perfect way to enjoy the sunshine, warm weather and camaraderie. To satisfy a hungry crowd, though, you'll need recipes fit for the occasion.

Turn to a versatile signature ingredient like Grapes from California, which can be used in dishes of all kinds from refreshing salads and entrees to flavorful condiments and sweet desserts. Grapes are crisp, juicy and sweet, making them a fantastic addition of flavor and texture for a wide range of recipes. Whether fresh, sauteed, roasted, grilled or even pickled, grapes make it easy to take meals to the next level.

For example, you can start the festivities with grapes as an easy, portable and healthy snack perfect for summer days or use them as a juicy addition to this all-in-one Honey-Lime Quinoa and Grape Salad that's ideal as a light appetizer or a meal all on its own. Follow it up (or pair it) with a summertime staple – hot dogs – given a sweet-tart twist from pickled grape relish that takes these Sweet and Tangy Pickled Grape Hot Dogs to new heights.

Dessert can't be much easier than Creamy Vegan Grape Ice Cream as a dairy-free alternative to traditional summer sweets. Oat coffee creamer and pureed grapes are all you need to create this delicious frozen treat. Simply freezing whole grapes also makes for an easy and healthy frozen dessert.

Visit GrapesFromCalifornia.com to discover more summer entertaining inspiration. Source: Courtesy of California Table Grape Commission/Getty.



Honey-Lime Quinoa and Grape Salad

Prep time: 15 minutes, plus at least 1 hour chill time.

Cook time: 22 minutes

Servings: 6 (1 1/3 cups per serving)

Lime Vinaigrette:

1/2 cup extra-virgin olive oil

1/3 cup lime juice

2 tablespoons honey

3/4 teaspoon sea salt

freshly ground pepper, to taste

Salad:

1 1/2 cups quinoa

2 cups vegetable broth

2 cups halved Grapes from California

1/2 cup minced red onion

1/4 cup chopped fresh cilantro

2 tablespoons minced jalapeno pepper,

1 large firm, ripe avocado, peeled, pitted

and cut into bite-size pieces, 1/2 cup

chopped peanuts - (optional)

To make lime vinaigrette: In medium bowl,

whisk olive oil, lime juice, honey, sea salt and pepper, to taste.

To make salad: In fine mesh strainer, rinse quinoa; drain well. In medium saucepan, bring broth and quinoa to boil; reduce heat and simmer, covered, 12 minutes. Remove from heat and let stand 10 minutes then fluff with fork and let cool. Transfer to large bowl.

Pour vinaigrette over quinoa; stir well to coat. Add grapes, onion, cilantro and jalapeno pepper; cover and chill at least 1 hour. Lightly stir in avocado and transfer to decorative bowl. Sprinkle with nuts, if desired.

Notes: Salad may be prepared and refrigerated up to 2 days ahead without avocado and peanuts. Add avocado and peanuts just before serving.

Nutritional information per serving: 520 calories; 10 g protein; 52 g carbohydrates; 32 g fat (55% calories from fat); 4 1/2 g saturated fat (8% calories from saturated fat); 0 mg cholesterol; 490 mg sodium; 7 g fiber.



Sweet and Tangy Pickled Grape Dogs

Prep time: 15 minutes, plus 1 hour marinating time

Cook time: 5 minutes

Servings: 8 (1/4 cup relish per serving)

1/2 tsp. mustard seeds

1/2 tsp. coriander seeds

1/2 tsp. black peppercorns

1/2 cup wine vinegar

1/4 cup packed brown sugar

2 1/4 cups quartered or coarsely chopped Grapes from California (red, green, black or combination)

1/4 cup thinly sliced red onion

8 turkey or chicken hot dogs

8 hot dog buns, lightly toasted

Place mustard seeds, coriander seeds and black peppercorns in small resealable bag. Using meat

mallet or rolling pin, crush seeds and peppercorns.

In small saucepan, stir vinegar, sugar, seeds and peppercorns; bring to boil. Remove from heat and stir to dissolve sugar; let cool. Stir in grapes and onion; set aside to cool and marinate 1 hour, stirring occasionally. Heat grill to medium heat.

Grill hot dogs 5 minutes, turning occasionally, or until charred and heated through.

Place hot dogs in buns. Using slotted spoon, top with pickled grapes.

Nutritional information per serving: 280 calories; 10 g protein; 39 g carbohydrates; 10 g fat (32% calories from fat); 2 g saturated fat (6% calories from saturated fat); 35 mg cholesterol; 630 mg sodium; 1 g fiber.



Creamy Vegan Grape Ice Cream

Prep time: 20 minutes

Cook time: 10-15 minutes

Servings: 8 (1/2 cup per serving)

1 pound stemmed black Grapes from California

12 ounces vanilla oat coffee creamer, well chilled

12 ounces unsweetened oat coffee creamer, well chilled

In high-speed blender, puree grapes until smooth. Transfer to medium saucepan and bring to simmer. Reduce heat to low and cook 10-15 minutes, or until reduced to 1 cup. Cover and refrigerate until well chilled. Stir creamer into pureed grapes and pour into bowl of ice cream maker. Freeze according to manufacturer's directions. Transfer to freezer-safe container; cover and freeze until firm.

Substitution: For lighter color, use 3/4 pound black grapes and 1/4 pound red.

Note: Make sure ice cream maker bowl is well chilled or frozen before making ice cream.

Nutritional information per serving: 140 calories; 0 g protein; 22 g carbohydrates; 6 g fat (39% calories from fat); 0 g saturated fat; 0 mg cholesterol; 45 mg sodium; 1 g fiber.

Case IH WD5 Series Windrowers Now Support Honey Bee® WSC Draper Heads



Case IH WD5 Series Windrower with Honey Bee® WSC Draper Heads

For small grain and canola producers, consistency and efficiency are keys to a successful harvest. To help growers achieve reliable results, Case IH announces a collaboration with Honey Bee® Manufacturing to allow WSC draper heads to connect to Case IH WD5 series self-propelled windrowers. Honey Bee brings their draper head technology for greater capacity, which maximizes efficiency across a range of conditions.

“This collaboration unlocks the draper potential of the WD5 series windrowers for small grain and canola producers,” said Brian Spencer, Case IH marketing manager for hay and forage products. “It’s vitally important producers have the tools they need to adapt and produce consistent results during swathing. The Honey Bee draper heads for self-propelled windrowers help operators take control with exceptional cutting in a simple, reliable design.”

Using easy in-cab control of two shifting decks, operators can deliver crop left, right or center with the double swath option. Additionally, the SCH Easy Cut system provides smooth cutting action. The Honey Bee draper heads also eliminate gouging and crop scuffing with adjustable casting gauge wheels.

These new draper heads save time moving from field to field with integrated transport. This allows for quick and convenient field to road conversion, so operators spend more time in the field.

“Every minute a machine sits idle cuts into producers’ bottom lines,” Spencer said. “The Honey Bee draper heads include heavy-duty rollers for a longer service life. They can also quickly replace reel fingers with only pliers and a wrench to get the equipment back in the field faster.”

The new Honey Bee draper heads for self-propelled windrowers were announced at the 2023 Ag In Motion expo in Western Canada. They are available in WSC30 and WSC36 model numbers. For more information, contact your local Case IH dealer or visit www.caseih.com.

PREMIUM HUMIC AND FULVIC ACID MANUFACTURER FOR 30 YEARS



IMPROVE YOUR SOIL HEALTH WITH LIVE EARTH HUMATES

Live Earth.

PRODUCTS

VISIT US ONLINE AT LIVEARTH.COM

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

Real California Cheeses Bring Home 29 Awards at American Cheese Society Meeting in Des Moines, Iowa

Cow's milk cheese and dairy processors that use the Real California Milk seal brought home 29 awards from the 2023 annual cheese competition held by the American Cheese Society (ACS) in Des Moines, Iowa.

The American Cheese Society recognizes the finest cheeses and dairy products made in the Americas. A total of 1,454 cheese and cultured dairy products were entered into the competition. Cheeses made with 100% California cow's milk had a strong showing this year in a field of 195 processors representing the United States and Canada.

California cheesemakers won a total of 45 awards – with Real California cow's milk cheeses bringing home 29 prizes: 8 first-place, 12 second-place and 9 third-place awards in this year's judging. Highlights from these wins include:

- *Point Reyes Farmstead Cheese Co., Pt. Reyes* - 4 awards, 1st place each for *Point Reyes California Coastal Blue* and *TomaProvence*; 2nd each for *Original Blue* and *Aged Gouda*.
- *Rizo-Lopez Foods Inc., Modesto* - 4 awards, 1st for *Tio Francisco Queso Cotija*; 2nd place each for *Tia Francico Panela* and *Rizo Lopez Cotija*; and 3rd for *Tio Francisco Oaxaca*.
- *Rumiano Cheese Company, Crescent City* - 4 awards, 1st place for *Original Peppato Dry Jack*; 2nd each for *Raised to Matter Organic Original Ghee* and *Original Willow Maid Dry Jack*; and 3rd *Redwood Coast Organic Salted Butter*.
- *Sierra Nevada Cheese Co., Willows* - 3 awards*, 2nd for *Organic Jack* and 3rd each for *Gina Marie Cream Cheese* and *Sierra Nevada Farmer Cheese*.
- *Belfiore Cheese Company,*

Berkeley - 2 awards, 2nd each for *Feta in Brine (12 oz.)* and *Marinated Ciliegine*.

- *Oakdale Cheese Company, Oakdale* - 2 awards, 1st each for *Cumin Gouda* and *Stanislaus Reserve*.
- *Sach Foods, Oakland* - 2 awards, 2nd for *Spicy Habanero Paneer* and 3rd for *Turmeric Twist Paneer*.
- *Central Valley Cheese, Turlock* - 1 award, 1st for *Labne, Lactose Free*.
- *Cowgirl Creamery, Petaluma* - 1 award, 2nd for *Wagon Wheel*.
- *Di Stefano Cheese Company, Pomona* - 1 award, 3rd for *Stracciatella*.
- *Fiscalini Farmstead, Modesto* - 1 award, 3rd for *Lionza*.
- *Nicasio Valley Cheese Co., Nicasio* – 1 award, 3rd for *San Geronimo*.
- *Marin French Cheese Co., Petaluma* - 1 award, 1st for *Petite Jalapeno*.
- *Stuyt Dairy Cheese Co., Escalon* - 1 award, 3rd for *Garlic Herb Spread*.
- *Yummy Industries, Riverbank* - 1 award, 2nd for *Cheese Bits Mozzamini Pearls, Wasabi*.

In total, 15 Real California cow's milk cheese and dairy companies won awards for products made with 100% Real California milk from the state's more than 1,100 family dairy farms. California is the second largest cheese producing state in the nation, responsible for more than 2.4 billion pounds of cheese in 2021. Real California cheeses and dairy products are available at retailers throughout the U.S., Mexico, and Asia. For more information, visit: RealCaliforniaMilk.com. For more information on ACS competition winners and the ACS Conference, go to: cheesesociety.org.

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 2023. 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
Email: 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

Advertising
Contact the Advertising Department at 559-627-2182 or email: 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

CDFA Accepting Pre-Proposals For New Dairy and Livestock Enteric Methane Emission Reduction Research Program

The California Department of Food and Agriculture (CDFA) is now accepting pre-proposals for the new 2023 Livestock Enteric Methane Emission Reduction Research Program (LEMER-RP) until 5 p.m. PT August 7.

Enteric methane emissions are greenhouse gases (GHGs) produced by fermentation in the stomachs of ruminant animals such as cattle, goats, or sheep that are exhaled or belched by the animal. In 2020, dairy and livestock enteric methane emissions were responsible for approximately 11 million metric tons of carbon dioxide equivalent (MMT-CO₂e) emissions per year, representing 35 percent of the agriculture and forestry sector's GHGs.

The California Budget Act of 2022 provided \$10 million to fund demonstration trials evaluating additives and dietary modifications that have the potential to reduce enteric methane emissions in the dairy and livestock sectors. Funded studies will further provide insight into feed additives' implications on animals and the environment.

"This research funding presents an opportunity for animal agriculture and the livestock sector to put forth solutions to ensure a sustainable future for the benefit of the livestock industry and all Californians," said Marit Arana, Chair of CDFA's Feed Inspection Advisory Board and a nutritionist at A.L. Gilbert Company, a feed concern.

The 2023 LEMER-RP will award competitive grants to universities (with or without a private partnership), non-profit research organizations, and California Native American Tribes. Applicants are invited to submit pre-proposals to the LEMER-RP by 5 p.m. PT on August 7.

Applicants whose pre-propos-



**NEW T7 HEAVY DUTY
WITH PLM INTELLIGENCE™**

THINK SMARTER.

The most connected tractor in the industry, the new T7 Heavy Duty with PLM Intelligence™ offers efficiency-enhancing PLM Intelligence managed through the IntelliView™ 12 monitor to help you think and work smarter. Through the IntelliView monitor's fully customizable screen you can stretch and zoom in-field maps, automate and sequence end-of-row turns, fine tune and manage implements, set different steering ratios, and more. Plus, the InfoView™ or CenterView™ instrument display puts all key tractor information right in front of you within the steering wheel.

The new T7 Heavy Duty brings the power of intelligence to your operation. See one today or visit newholland.com to learn more.

PLM **NEW HOLLAND**
AGRICULTURE

Coastal Tractor
10 Harris Place, Salinas, California 93901
www.coastaltractor.com
(831) 757-4101

King City, California (831) 385-5401 Paso Robles, California (805) 239-5772

Coastal Tractor
Sales - Parts - Service
Established in 1971

© 2021 CNH Industrial America LLC. All rights reserved. New Holland is a trademark registered in the United States and many other countries, owned by or licensed to CNH Industrial NV, its subsidiaries or affiliates.

als are selected through a review process will be invited to develop a full proposal for submission in early September. Full proposals will be due at the beginning of November.

To register for the event, visit the registration website at: https://us02web.zoom.us/webinar/register/WN_JNCjzCWyQM2PNjCmBO88SQ

To view the RFP or for more information about the pre-proposal process, eligibilities, impact areas, requirements, and the application assistance workshop, please visit the website at www.cdca.ca.gov/oefi/

enteric.

Send email inquiries to: CDFA.
OEFI_Enteric_Methane_Reduction@
cdca.ca.gov.

**HAVE EQUIPMENT
TO SELL?
FREE CLASSIFIEDS
cfemag.com**

California Fresh Fruit Association continues to support fresh fruit growers after more than 100 years



Farm Credit Alliance

Every summer, people around the country enjoy luscious fruits like apricots, table grapes, kiwis, peaches and plums. And since California is the nation's largest producer of each of these commodities, there's a good chance those fruits were grown right here in the Golden State.

Working to protect the interests of growers of these and several other permanent fruit crops is the California Fresh Fruit Association (CFFA). With roots dating back to 1921, it's one of the oldest agricultural trade associations in California, said Courtney Razor, CFFA's Director of Member Services and Communications.

"CFFA is a public policy organization that advocates on behalf of 13 permanent, fresh fruit commodities, everything from blueberries to stone fruit to table grapes," Razor said. "We advocate for our grower and shipper members at the local, state and federal levels on a vast array of issues including but not limited to labor, water, trade and food safety."

Statewide, the association has about 350 members from Lake County to the Coachella Valley, with the bulk of operations clustered between Madera and Kern counties.

Keith Hesterberg, President and CEO of Fresno Madera Farm Credit, said without CFFA members, consumers would have much less fresh fruit.

"According to state statistics, California growers lead the nation in the production of apricots, figs, table grapes, kiwis, nectarines, peaches, persimmons, plums and pomegranates – and second nationally in blueberries and

cherries," Hesterberg said. "In fact, the state is basically the sole source of American production of kiwis, nectarines, clingstone peaches and plums. Farm Credit is proud to support many different commodities like fresh fruit that are such important parts of California agriculture."

Farm Credit Alliance members AgWest Farm Credit, American AgCredit, CoBank and Fresno Madera Farm Credit are proud supporters of CFFA. The organizations are part of the nationwide Farm Credit System – the largest provider of credit to U.S. agriculture.

Razor said water supply and implementation of the state's groundwater manage-

ment system were key priorities, even in this extremely wet water year.

On the labor front, CFFA members were disappointed in the passage of AB 2183 last year, which permits so-called "card check" voting for union representation instead of secret-ballot elections that allow workers to vote without fear of coercion. She said the association has been working with other ag organizations to educate members about how to comply with the new requirements. The group is also supportive of technological research and mechanization with the goal of making farm practices more efficient.

She credits the Association for rising to the occasion during the COVID-19 pandemic to ensure CFFA members and their employees had access to personal protective equipment and vaccinations so growers could provide safe working environments and ensure fruit could be harvested and transported to consumers.

Razor also thanked Farm Credit for its sponsorship of CFFA's 87th Annual Meeting, which was held in March this year at The Lodge at Torrey Pines near San Diego.

"The California Fresh Fruit Association is extremely grateful to Farm Credit for their continued partnership and support in helping us make the event a success each year. At our 2023 Annual Meeting, we had 225 members in attendance who heard from keynote speakers about priorities taking place this year at the state Capitol and in Washington, D.C. as lawmakers begin preparations for the

See Fresh Fruit page 11



PROUDLY SERVING FARMERS SINCE 1954

NEW & USED SALES - SERVICE - PARTS - RENTALS

A PARTNER IN YOUR COMMUNITY



COLUSA, CA - DOS PALOS, CA - MERCED, CA - STOCKTON, CA
STRATFORD, CA - TURLOCK, CA - WILLOWS, CA - YUBA CITY, CA
HARRISBURG, OR - HILLSBORO, OR - MADRAS, OR
RICKREALL, OR - WOODBURN, OR

(888) 246-0892



*PER MANUFACTURER AGREEMENTS, ITEMS LIMITED TO AUTHORIZED LOCATIONS.

Honey Bees More Faithful to Their Flower Patches Than Bumble Bees



Honey bees are more faithful to their flower patches than bumble bees when it comes to returning to collect more pollen and nectar. Shown here a honey bee visits alfalfa flowers. Photo by Fabiana Fragoso

Honey bees are more faithful to their flower patches than bumble bees when it comes to returning to collect more pollen and nectar, according to a study by U.S. Department of Agriculture Agricultural Research Service scientists.

Overall, 76 percent of honey bees in the study revisited the same plot of alfalfa flowers in contrast to just 47 percent of eastern bumble bees.

But size does matter, especially to bumble bees. They were more faithful to larger flower patches, while the likelihood of honey bees returning to a flower patch was not affected by patch size. Large patches in the study were nearly 15 by 15 yards, each planted with 225 plants, more than twice as many as the small patches, which were about 10 by 10 yards with 100 alfalfa plants each.

To remain faithful to a specific location, an insect or animal requires reliable spatial memories enabling them to navigate complex landscapes and repeatedly return to the same site. Both honey and bumble bees have demonstrated this ability to return to previously visited foraging locations, so there must be other species-specific factors to explain the differences in patch fidelity observed between the two species, explained ecologist Johanne Brunet with the ARS Vegetable Crops Research Unit in Madison, Wisconsin, who led the study along with post-doctoral associate Fabiana Fragoso.

Differences in patch fidelity could be the result of bumble bees' more explorative foraging behavior—their willingness to invest individually in foraging, often visiting

more than one type of flower per foraging bout—compared to honey bees' more highly developed communication system—the honey bees' well-known waggle dance. Honey bee foragers perform the dance when they return to the hive to share the location of valuable food sources with other foragers; bumble bees do not.

"So higher patch fidelity of honey bees, relative to bumble bees, may reflect a greater aversion to risk, be it in terms of wasting energy and resources or encountering predators" Brunet said.

The better our understanding of the characteristics that drive patch fidelity in important pollinators like honey bees and bumble bees, the better beekeepers, producers and

conservation biologists will be able to support pollinators health as well as uphold the essential agricultural need to have crops pollinated to produce a harvest, Brunet added.

But the implications go far beyond that. For example, the pattern of pollination can have potential impacts on gene flow, the way in which gene pools of two separate populations of the same species mix.

"Bumble bees' lower patch fidelity can translate into higher gene flow among the patches they visit, creating a higher probability for bumble bees to move genes longer distances," Brunet said. "Higher gene flow in plant populations in the natural environment will also tend to homogenize their genetic diversity."



*The western bumble bee, *Bombus occidentalis*. Photo by Stephen Ausmus*

Smith Welding & Machine Shop
 179 So. 10th Avenue
 Hanford, CA 93230
 Phone (559) 584-8652

Tomato Vine Cutter



www.smithweldingshop.com

Fresh Fruit

continued from page 8

Farm Bill," she said.

Mark Littlefield, President and CEO of AgWest Farm Credit, said supporting organizations advocating for California agriculture is an important priority for Farm Credit's philanthropical efforts.

"The issues CFFA works on are absolutely critical to the success of our state's fruit growers – indeed, all of California's farmers and ranchers," Littlefield said. "Without water, a labor force and the ability to export crops overseas, the industry that feeds the nation and the world could not exist, which is why it's so important that CFFA and other advocacy organizations do such a great job of educating policymakers here in California and in Washington, D.C."

CALIFORNIA ANTIQUE EQUIPMENT SHOW™

APRIL 19-21 | 2024



New Workmaster 120 Orchard Tractor



SHOWN WITH OPTIONAL CAB

Finally, an economically priced orchard tractor with features you've asked for.

- ✓ 120 Engine HP / 100 PTO HP (Two lower HP models available)
- ✓ 21 GPM hydraulic system (option)
- ✓ 6200# 3-point lift capacity
- ✓ 12 speed transmission, creeper ready
- ✓ Digital MPH, PTO readout
- ✓ Power Shuttle (wet clutch)
- ✓ 4WD with Electro-Hydraulic Engagement
- ✓ Simple Design - NO DPF - Mechanical controls
- ✓ Under the hood SCR System (no external side muffler/SCR)
- ✓ 120 amp alternator
- ✓ Air ride seat, ergonomic platform
- ✓ CleanFix Reversible Fan option (manually engaged) for cleaning
- ✓ Heavy construction (10,000 + lbs)
- ✓ ROPS w/optional orchard fenders, bumper, fuel tank guard
- ✓ Saf-T-Cab All-New Kool Cab ECO (option)
- ✓ Dealer Support you deserve!

Great Prices on Inventory - Base ROPS Starts at \$49,900 While They Last.

Give one of our Sales Staff a call or stop by your nearest Garton Dealership!

1-877-872-2867

Joe • Sheri • Derek
 Troyce • Daniel • Grant
Turlock, CA
 (209) 632-3931
Newman, CA
 (209) 862-3760

Vic • Derrick
Fairfield, CA
 (707) 425-9545

Dan • Sam • Mike
Fresno, CA
 (559) 485-9090

Stan • Mark
Madera, CA
 (559) 684-2496



Quality People Quality Products™

Kim • Jason
Merced, CA
 (209) 726-4600

Scott • Bob • Trey
Modesto, CA
 (209) 538-0911

Gary • Will • Chris • Devon
Santa Rosa, CA
 (707) 586-1790
 Gy • Mike • Jeff
Stockton, CA
 (209) 948-5401

Craig • Barry • Brett • Jeremy
Tulare, CA
 (559) 686-0054

Tim • Cody
Ukiah, CA
 (707) 235-2556

Cody • Rick
Woodland, CA
 (530) 601-7352

Visit Our Website: www.gartontractor.com

UCR releases a new avocado tree to the world marketplace

The 'Luna UCR™' variety is the result of more than a half century of tree breeding

By David Danelski

A new avocado variety that's more than a half-century in the making will soon be available to growers in the world marketplace.

It's called the Luna UCR™ and offers consumers great flavor, a rind that turns a tell-tale black when ripe, and high postharvest quality. Growers, meanwhile, will benefit from a smaller tree size, allowing denser plantings for more efficient and safer harvesting, and minimal pruning.

It also has a type of flower that makes it an efficient pollinizer for various avocado varieties, including the stalwart Hass, the world's leading variety. Planting the Luna UCR™ intermingled with other varieties could help ensure good yields by increasing pollination rates.

Developed by University of California, Riverside, agricultural scientists, the Luna UCR™ is officially known as the BL516. It is protected under a pending patent that credits Mary Lu Arpaia, a UC Cooperative Extension horticulturist based at UCR, and her colleague Eric Focht, a UCR staff research associate in the Botany and Plant Sciences Department in the College of Natural and Agricultural Sciences. Other credited "co-inventors" are former UCR scientists Gray Martin, the late David Stottemyer, and the late B.O. "Bob" Bergh, who left UCR in 1991.

The variety will be marketed to growers worldwide through a partnership with Eurosemillas, SA, a company based in Spain that specializes in international marketing of proprietary crop varieties. Under an agreement worked out by UCR's Office of Technology Partnerships, Eurosemillas is the licensee of the variety. Eurosemillas has established partnerships with growers in 14 countries outside of the USA to grow the Luna UCR™.

The development of Luna UCR™ has been intergenerational. It goes back to the work of Bergh in the 1950s, explained Arpaia, who described him as UCR's "first real long-term avocado breeder."

Back then, the avocado industry sought a green-skinned Hass as an alternative to the smooth-skinned and green-colored Fuerte avocado – the nation's top seller from the 1920s to the 1970s. Meaning "strong" in Spanish, the Fuerte is so named because it survived deep freezes in Los Angeles in the early 20th Century. It has excellent flavor but was a problem for growers because it's an alternate fruit bearer, which meant the trees produce robust fruit crops only once every two years.

The Hass, meanwhile, had much going for it, including a great nutty flavor and a skin that easily peeled. But, in the mid 1950s or so, consumers turned their noses to the Hass, because they associated its black skin when ripe with rotten, spoiled fruit, explained Focht.

So, Bergh went to work, planting thousands of genetically different avocado seedlings from a Thille avocado, an offspring of the Hass, in search of a perfect green version of an otherwise Hass-like fruit. So, more than 20 years later, in 1983, he succeeded with the release of the Gwen, named after his wife.

Unfortunately, the Gwen avocado was a commercial flop – because the black-skinned Hass had made it after all.

Technology and advertising solved consumer issues with the black skin. The use of ethylene gas in warehouses allowed for the uniform ripening of avocados that are picked when they are still green. And a "Ripe for Tonight" advertising campaign taught consumers that avocados are ripe and ready to eat when the skin turns black.

The arrival of drip irrigation meant Hass groves could be planted on steep hillsides, including those along the Interstate 15 corridor on both sides of the border between Riverside and San Diego counties. This allowed for a great expansion of the industry in Southern California in the late 1960s and 1970s.

Because of its green skin, the Gwen was left behind before it was introduced, even though it has wonderful properties, including its flavor, its ability to bear fruit every year, and a smaller tree size for easier harvesting with less pruning.

Bergh was taken aback, but not defeated, Arpaia said. He recognized that although Gwen had not found a place in the commercial marketplace, it might provide the basis of future avocado varieties.

"So, he decides in 1985 he's going to make one big final push because he's getting older and getting ready to retire," Arpaia said. "Knowing what I know about Bob, he never gave up."

Bergh planted as many as 70,000 genetically different seedlings from Gwen mother trees at three sites with different climates in San Bernardino, Ventura, and San Luis Obispo counties. Hedging his bet paid off when all the trees planted in the Mentone area of San Bernardino County died in an unusually deep freeze. Yet, one of the Ventura Country trees that grew in Camarillo became the first of what is now the Luna UCR™ avocado, with the preferred black skin when ripe. Unfortunately, Bergh will not see the release of this fruit of his labor. He died in 2021 at age 96.

"Fruit breeding is a very long-term process," Arpaia said. "So, you build upon the shoulders of your predecessors."

What's next for UCR's avocado breeders?

"We are looking to collect and plant seeds again next year," Focht said.

"So, 20 years from now, I'll be on a patent. I'll be 90 years old, but still on the patent," Arpaia said.



Fast, Gentle, Clean Nut Harvesting Systems



30-36

HIGH SPEED ELEVATOR

GET YOUR ORDER IN EARLY AND SAVE!

Linder EQUIPMENT CO.
SERVING AGRICULTURE SINCE 1884

(559) 685-5000

(559) 685-0452 Fax

(559) 685-5017 Cell

311 E. Kern Ave., Tulare, CA 93274

American Agri-Women opposes the Bureau of Land Management's new mixed language of its multi-use mandate

American Agri-Women (AAW) opposes the new rule language that defines the nonuse of Bureau of Land Management (BLM) land as part of its multi-use mandate.

American Agri-Women believe AGRICULTURE IS CONSERVATION. BLM's new rule could potentially bankrupt ranchers. Many ranches exist because they have grazing allotments. Ranchers can graze their livestock on BLM or Forest Service lands, which makes those ranches economical and improves the land by reducing the fuel loads for wildfires. Animals are critical to the natural biological cycle. Grazing is an essential tool for managing land. If grazing is prohibited, ranchers will go bankrupt, invasive species will take over landscapes, and we will have more catastrophic wildfires. Wildlife will suffer, and multiple uses will become impossible.

The Bureau of Land Management (BLM) was formed in 1946. Thirty (30) years later, the agency's mission was set with the passage of the Federal Land Policy and Management Act (FLPMA). FLPMA gave the BLM its "multiple use mandate." Public land management means public lands have many resources, such as forage, timber, energy, habitat, etc., and public lands have many uses, such as grazing, recreation, mining, etc. The "Multiple use mandate" through FLPMA states that the resources and uses on public land must be utilized in a balanced combination that will best meet the needs of the people.

The Bureau of Land Management published a pro-

posed rule change in the Federal Register on April 3rd, 2023. This rule could effectively eliminate traditionally mandated multiple uses of BLM-managed lands. Under this new rule, 'conservation' would be a 'use' like mining, grazing, or timber. The new language defines nonuse as use and opens leases to be controlled by environmental groups or NonGovernmental Organizations (NGOs). Ranchers could lose their leases because of competition from deep-pocketed environmental groups or NGOs that can now claim priority and compete for leases. Under the new proposed rule for conservation leasing, BLM Lands could be leased by third-party NGOs that could cut off any other uses for decades and will likely become the administration's primary vehicle for their 30 x 30 initiative.

Prior administrations have used the 1906 Antiquities Act. The 1906 Antiquities Act was created for emergency use for administrations to preserve delicate cultural artifacts and relics with the "smallest area compatible" for protected objects. Recent administrations, however, have abused the century-old law to lock up land and create quasi-national parks without congressional approval. This new rule change makes one wonder if BLM intends to lock up land by prioritizing "conservation leases." It appears their objective is to end all economic use of public lands and stop grazing as a source of conservation management on public lands. It should be noted a recent Supreme Court ruling in *Sackett vs. EPA* states agencies cannot gift themselves unlimited power.

UC Davis Ranked Among Top Universities Worldwide

by Julia Ann Easley

The University of California, Davis, ranks in the top 8% of universities worldwide in the 2024 edition of the QS World University Rankings.

The campus ranks fifth in the nation and 16th in the world in the new sustainability indicator evaluating the university's social and environmental impact. It accounts for 5% of the overall ranking. QS split the measures into environmental sustainability – including sustainable institutions, sustainable education and sustainable research – and social impact, which includes equality, knowledge exchange, educational impact, employability and opportunities, and quality of life.


Worldwide, UC Davis was tied for 118th overall among 2,963 institutions analyzed and 1,498 with published rankings.

The QS (Quacquarelli Symonds) rankings take into account factors including reputation among academics and employers, ratios of international faculty and international

students, research citations and the overall faculty-to-student ratio.

UC Davis and rankings

A world-class university, UC Davis is highly ranked for how it transforms students' lives, the impact of its research, the excellence of its academic programs, sustainability and more. See highlights on our rankings page. The university performs self-evaluations and also appreciates the value of third-party assessments. However, ranking methods vary, change over time and can be subjective. UC Davis focuses on those rankings that most closely align with its mission and values — including serving the public good, inclusiveness and equity, and social mobility — and in national rankings looks most closely at its standing among public universities. UC Davis encourages prospective students and their families to weigh rankings among other factors in their college decision, talk with counselors and UC Davis admissions advisors, and, if possible, visit the campus.

 **Gould Auction** **INTEGRITY EXPERIENCE RESULTS**

AUCTION

Saturday, September 23, 2023 9:00 AM
Inspection: Friday September 22, 2023

**Expecting Vehicles • Tractors
and much more...**

Consignments Welcomed!

**Call for a free confidential evaluation
today! And get your EQUIPMENT for
sale in this UPCOMING AUCTION!**

LIVE & ONLINE BIDDING @ www.proxibid.com

6200 Price Way, Bakersfield, CA 93308
Office (661) 587-3123 • Jerry (661) 333-3040
 Bond # Ca MS150-49-03 USA MS2892233
www.Gouldauction.com • E Mail @ Gouldhitch@aol.com

 **Kaweah**
EQUIPMENT CO



 **YANMAR**

**NEW & USED INVENTORY
PARTS & SERVICING
SAFETY TRAINING
RENTALS**

PHONE : 559 - 733 -2982
WWW.KAWEAHEQUIPMENT.COM
 10725 W GOSHEN AVE, VISALIA, CA 93291

When it comes to bumblebees, does size matter?

by Jules Bernstein

Why bumblebee body sizes vary so significantly is a mystery of bumble biology.

Certain crops, like greenhouse tomatoes, eggplant, peppers, and blueberries, rely on bumblebees for a style of pollination that only bumblebees can perform. Among growers, the preference can be for bigger-bodied bumblebees because they're thought to be more efficient pollinators.

Enabled by a \$750,000 grant from the National Institute of Food and Agriculture, the research team will investigate factors suspected of influencing bumblebee biology and body size, including climate change, wildfires, and the presence of nearby honeybee colonies.

In many cases, individual animals are born smaller when their habitat has less nutrition available. The researchers want to know if this is also true for bees. "One idea is that honeybees are taking more food resources, resulting in smaller bumbles. This is part of what we will be testing," said UCR entomologist and project lead Hollis Woodard.

To test this, the researchers will collect bumblebee size data over the next four years from places both with and without honeybees nearby. "It's hard to find any-

where in the lower 48 without either managed or feral honeybees. For this reason, we're headed to Alaska for part of the study," Woodard said.

Fire may also play a role in bumblebee development. Some research has shown that bumblebees are born bigger, and in higher numbers, during the years following a wildfire. Since wildfires are common in California, the research team will also be collecting data from places throughout the state with different types of fire histories.

"Fires are good in some ways for bees," Woodard said. "As the land recovers from the burn, a lot of flowers appear, offering food."

In addition to the mystery of what influences the bees' body size, it's also unclear what role size plays in a bumble colony. While all bumblebee workers perform the same functions, variation in size could allow the hive as a whole to collect pollen from a wider variety of flowers.

Though bigger bees can collect more pollen, they might not be right for every plant species. For some flowers, especially those that are trumpet-shaped, smaller bumblebees are better pollinators.

See Bumblebees page 18

Deadline for Organic Dairy Marketing Assistance Extended Until August 11

The U.S. Department of Agriculture (USDA) is extending the deadline for the new Organic Dairy Marketing Assistance Program (ODMAP) to August 11, 2023. This extension gives organic dairy producers more than two additional weeks to apply for the program. ODMAP helps producers mitigate market volatility, higher input and transportation costs, and unstable feed supply and prices that have created unique hardships in the organic dairy industry. This assistance will help keep organic dairy operations sustainable until markets return to more normal conditions.

Through USDA's Farm Service Agency (FSA), \$104 million is available to organic dairy operations to assist with projected marketing costs in 2023. Eligible producers include certified organic dairy operations that produce milk from cows, goats and sheep. ODMAP assistance is calculated using a producers' marketing costs in 2022. For new, transitioning or expanded organic dairy operations, assistance is based on projected marketed production in 2023. Eligible producers include certified organic dairy operations that produce milk from cows, goats and sheep.

FSA will make an initial ODMAP payment to eligible applicants factored by 75%. If funds remain at the end of the application period, an additional payment, not to exceed the remaining 25%, may be issued to eligible producers.

How to Apply

Signup opened May 24 and closes Aug. 11, 2023. To apply, producers should contact FSA at their local USDA Service Center. To complete the ODMAP application, producers must certify to pounds of 2022 milk production or to a projection of marketed pounds in 2023, if applicable,

and submit a completed application form.

At the time of application, organic dairy operations are required to provide their USDA certification of organic status confirming the operation as an organic dairy in 2023 and 2022 along with the certification of 2022 milk production in hundredweight.

ODMAP complements other assistance available to dairy producers, including Dairy Margin Coverage (DMC) and Supplemental DMC, with more than \$611 million in benefits paid for the 2023 program year to date. For details, visit the FSA Dairy Programs webpage.

To learn more about FSA programs, producers can contact their local USDA Service Center. Producers can also prepare maps for acreage reporting as well as manage farm loans and view other farm records data and customer information by logging into their farmers.gov account. If you don't have an account, sign up today.

USDA touches the lives of all Americans each day in so many positive ways. Under the Biden-Harris Administration, USDA is transforming America's food system with a greater focus on more resilient local and regional food production, fairer markets for all producers, ensuring access to safe, healthy and nutritious food in all communities, building new markets and streams of income for farmers and producers using climate smart food and forestry practices, making historic investments in infrastructure and clean energy capabilities in rural America, and committing to equity across the Department by removing systemic barriers and building a workforce more representative of America. To learn more, visit [usda.gov](https://www.usda.gov).

THE LS DIFFERENCE Visit Your Local LS Tractor Dealer

Dinuba, CA

PETE & SON'S INC
559-574-5445

Earlimart, CA

VALLEY FORKLIFT INC
559-268-6285

Fresno, CA

VALLEY FORKLIFT INC
800-959-5532

Grass Valley, CA
SIMPLY COUNTRY
530-273-3886

Los Molinos, CA

LANE TRACTOR SALES INC
530-384-1016

Modesto, CA

VALLEY FORKLIFT INC
209-846-6960

Redlands, CA

YUCAIPA AUTO & TRAILER CENTER
909-794-6971

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

Sacramento, CA

TRACTOR CITY INC
916-309-4146

Stockton, CA

VALLEY FORKLIFT INC
209-933-0206

Templeton, CA

TAN OAK TRACTOR SALES INC
805-391-2208

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

Yuba, CA

MECHANICAL & IRRIGATION SOLUTIONS INC
530-674-7030

LS Tractor

TRACTORS AND DEALERS YOU **CAN DEPEND ON.**

Discover the Blue Difference at Your Local Dealer



Whether it's your first tractor or your fifth, LS dealers take the time to match you with a model that meets your needs, not their sales quotas. That commitment continues after the sale with exceptional service and support. Visit your local dealer today and find out why customers **Start Blue. Stay Blue.**

© 2023 LS Tractor USA

Methane reduction - CDFA Now Accepting Grant Applications For Dairy And Livestock Methane Reduction Programs

The California Department of Food and Agriculture (CDFA) is now accepting grant applications from commercial dairies and livestock operations for the installation of equipment and implementation of practices that result in long-term methane emissions reductions and maximize environmental co-benefits. Since 2015, CDFA's dairy and livestock methane programs have funded 271 incentive projects that will result in the reduction of more than 24.3 million metric tons of carbon dioxide equivalent (MMT-CO₂e) once completed through their expected minimum lifetime. This is equivalent to removing a total of 5.4 million gasoline-powered cars from the road.

"Dairy families in California continue to step up to ensure the agriculture sector contributes to climate change mitigation and adaptation," said CDFA Secretary Karen Ross. "The partnership between the state and dairy families has resulted in significant methane emission reductions, making California a national and international leader in supporting on-farm livestock methane reductions using climate-smart agricultural management approaches and other environmental benefits, including improved water quality from dairy farms."

This year, CDFA will offer both of its flagship dairy and livestock methane reduction grants: the Alternative Manure Management Program (AMMP) and the Dairy Digester Research and Development Program (DDRDP). AMMP and DDRDP are supported by funding from the Budget Act of 2022, with \$48 million appropriated for livestock methane reduction and an additional \$20 million specifically for AMMP through the Greenhouse Gas Reduction Fund. AMMP will make approximately \$20.9 million available, and DDRDP approximately \$11.4 million available for 2023 awards. CDFA will make the remaining funds from the appropriations available in a subsequent solicitation expected in 2024.

New this year, the Dairy Plus Program offers the opportunity to amplify the reach and scope of traditional AMMP and DDRDP projects with approximately \$75 million from the USDA Partnerships for Climate Smart Commodities program. CDFA and the California Dairy Research Foundation joined forces to secure funding from this USDA program, which will reduce greenhouse gas emissions while expanding markets for America's climate-smart commodities. Dairy Plus will fund advanced manure management practices that reduce GHG emissions and address nutrient surplus. Both new AMMP and DDRDP applicants, as well as previous AMMP and DDRDP recipients with completed projects, are eligible to apply to the Dairy Plus Program.

"We are honored to have partnered with CDFA, the University of California, and the California dairy industry in being awarded additional funds in support of our state's

dairy producers through the USDA's Partnerships for Climate Smart Commodities Grant Program," said Denise Mullinax, executive director of the California Dairy Research Foundation. "The additional funds, administered through CDFA as the Dairy Plus Program, will further incentivize producers to adopt advanced manure management practices and technologies in California. The Dairy Plus Program funds are the first to actively target both GHG reduction and nitrogen management and we enthusiastically await the innovative, environment-benefiting projects that will result from these additional awards."

Prospective applicants can find individual program details below:

- **Alternative Manure Management Program (AMMP)**
Applications are due Monday, August 28, 2023, by 5:00 PM PT. Detailed information including application process and requirements, application assistance workshops conducted by CDFA, and availability of no-cost technical assistance for prospective applicants provided by CDFA-funded Technical Assistance Providers and UC ANR Climate Smart Agriculture Community Education Specialists is available at www.cdfa.ca.gov/oefi/AMMP.
- **Dairy Digester Research and Development Program (DDRDP)**
Applications are due Monday, August 28, 2023, by 5:00 PM PT. Detailed information including application process and requirements, application assistance workshops conducted by CDFA, and community outreach resources is available at www.cdfa.ca.gov/oefi/ddrdp.
- **Dairy Plus Program**
Applications are due Monday, August 28, 2023, by 5:00 PM PT. Detailed information including the application process and requirements, and application assistance workshops conducted by CDFA is available at <https://www.cdfa.ca.gov/oefi/dairyplus/>.

Bumblebees

continued from page 15

"There are theories that bumblebee sizes are just random, or that it's just generally good to have variation," Woodard said. "Right now, we don't yet know exactly what this variation in size does for colonies."

In addition to benefitting crop growers, the team's findings could ultimately benefit the bees themselves. "Any insights we gain into factors affecting the bumblebees could help us better understand how to bolster their dwindling populations," Woodard said. "Helping them in turn helps ensure the health of wildflowers, as well as our food supply."

*BIG TRACTOR TECHNOLOGY
IN A HIGHLY MANEUVERABLE PACKAGE.*



The Fendt® 500 Series, a series of all-purpose tractors built to be your primary tractor — or only tractor. The 500 Series gives you everything you'd expect in a Fendt tractor, with lower weight and horsepower. So, even in a smaller package, you get big performance. You wouldn't expect anything else from Fendt. It's time to discover the difference between a good tractor — and a great one. Learn more at fendt.com or visit EMPIRE AGRICULTURE.

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

© 2019 AGCO Corporation. Fendt is a worldwide brand of AGCO Corporation. AGCO® and Fendt® are trademarks of AGCO. All rights reserved.

CDFA Now Accepting Block Grant Applications For New Organic Transition Pilot Program

The California Department of Food and Agriculture's Office of Environmental Farming and Innovation (OEFI) is now accepting applications for its new Organic Transition Pilot Program.

The program will award block grants to organizations that support farmers and ranchers managing acres they intend to transition to organic operations. Awardees will assist farmers and ranchers with services like on-farm organic management consultation, translation, business planning, and their organic certification applications.

The program will accept applications through September 15, 2023. Organizations eligible to apply include non-profits, resource conservation districts, universities in the University of California network, organizations within the University of California Cooperative Extension, California State Universities, California Community Colleges, and California Native American Tribes.

"The process of transitioning land into organic production can be difficult," said Judith Redmond, member of the Environmental Farming Act Science Advisory Panel,

and co-owner of Full Belly Ranch, a certified organic 350-acre farm in northern California. "It's a lot of work to learn new procedures, and market-price benefits aren't available until the transition is complete and organic certification has been achieved. Farmers and ranchers need support during this challenging period of change, and that's why this new Organic Transition Program is so important."

Minimum awards for block grants are set at \$500,000, with a maximum award of up to \$2 million per applicant organization. Grant terms may not exceed three years. Fifty percent of the funding awarded should benefit socially disadvantaged farmers and ranchers as defined by California Assembly Bill 1348 (2017), the Farmer Equity Act. Lead applicants are encouraged to collaborate and network with organizations that support this group of farmers and ranchers.

Application materials and additional information can be found on the program website at the following link: <https://www.cdfa.ca.gov/oefi/otp/>

Blue Diamond Growers Launches USDA Partnerships for Climate-Smart Commodities Grant Program

The new program equips the almond cooperative's growers with resources and incentives to implement climate-smart practices in their orchards

Blue Diamond Growers launched its USDA Partnerships for Climate-Smart Commodities Grant Program with its 3,000 grower-owners. The program is a major step in expanding the use of climate-smart practices in almond orchards.

The initial launch of the Blue Diamond USDA Climate-Smart Grant Program offers almond growers no-cost seed and a financial incentive for implementing cover crops and/or conservation cover on their land. These practices will not only work towards sequestering carbon but will also enhance the biodiversity of orchards, while improving soil health.¹ As part of this program, growers will work with civil society technical partners, Pollinator Partnership and Project Apis m. to implement these practices.

"This is an exciting and unique opportunity for growers outside of the traditional federal, state, and local resources that are typically available to them," said Dan Sonke, Sr. Director of Sustainability, Blue Diamond Growers. "We know that cost and technical barriers are the largest hurdles to overcome when implementing climate-smart practices. This project provides resources to accelerate our grower-owners' advances in soil health, biodiversity, and climate-smart agriculture."

The program will also work to identify almond-specific methods for quantifying the greenhouse gas (GHG)

impacts of implementing climate-smart practices and will explore market-based mechanisms to reward growers for their stewardship work.

The USDA Partnerships for Climate-Smart Commodities Grant Program further extends Blue Diamond's current Orchard Stewardship Incentive Program (OSIP). OSIP currently has more than 50% of Blue Diamond acreage enrolled, the largest amount of almond acreage in the world participating in a sustainability program, with over 15% of Blue Diamond's acreage being Bee Friendly Farming (B.F.F.) certified.

"Not only does this program benefit growers, but food companies and retailers as well," continued Sonke. "Customers can partner with Blue Diamond to support the use of climate-smart practices which benefit the climate, soil health, and orchard biodiversity, and thereby procure almonds with a measured GHG reduction quantification that helps meet their own climate and sustainability targets."

With planning and grower communication underway now, Blue Diamond Growers will largely begin to implement the grant-related practices across California beginning in October, after this year's harvest.

For more information on Blue Diamond Grower's sustainability efforts, please visit [bluediamond.com/sustainability](https://www.bluediamond.com/sustainability).

CDFA Announces Vacancies On The Livestock Identification Advisory Board

The California Department of Food and Agriculture's Bureau of Livestock Identification is announcing vacancies on the Livestock Identification Advisory Board (LIAB). According to Food and Agriculture Code 20469, the LIAB makes recommendations to the Secretary on hide and brand laws, the curbing of livestock theft, procedures followed by the Bureau, and the program's annual budget.

The term of office for a member on the LIAB is four years. Members on the board receive no compensation but are entitled to reimbursement for mileage. The present board membership consists of two beef cattle producers, two dairy producers, two registered feedlot operators, and one livestock marketing business.

As of June 2023, one Beef Cattle Producer position has become vacant. Any interested individual representing beef cattle producers is asked to send a brief resume

by August 31, 2023, to the California Department of Food and Agriculture, Bureau of Livestock Identification, Attention: John Suther, 1220 N Street, Sacramento, California 95814.

The Bureau of Livestock Identification is the sole State authority to register and inspect cattle operations. It maintains a brand registration and inspection program to protect cattle owners in California against loss of animals by theft, straying, or misappropriation. The Bureau's program consists of registration of livestock brands; inspection of cattle for lawful possession prior to transportation, sale, or slaughter; recording of information obtained by such inspections; and assisting local law enforcement with investigations and prosecutions involving cattle theft.

Additional information is available on LID's web page: https://www.cdfa.ca.gov/ahfss/Livestock_ID/index.html

A tractor made for the orchard. A deal made for you.



Low Profile Series 105.6-114.1 Gross HP Designed for orchard & poultry farms



Save now on the Kubota low profile series. Part of our tractor lineup rated #1 for durability and owner experience in the U.S. as awarded by Progressive Farmer.*

\$0 DOWN 0% APR UP TO 48 MONTHS

VISIT US TODAY FOR THIS LIMITED-TIME OFFER

FRESNO

Pioneer Equipment Co.
559-486-7580

MERCED

Garton Tractor, Inc.
209-726-4600

MODESTO

Garton Tractor, Inc.
209-538-0911

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

Big Valley Tractor
800-266-9631
209-466-9631

TULARE

Linder Equipment Company
559-685-5000

TURLOCK

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

UKIAH

Garton Tractor, Inc.
707-468-5880

KubotaUSA.com

*Award based on 2021 Progressive Farmer Reader Insights Tractor Study. © Kubota Tractor Corporation, 2023. \$0 Down, 0% A.P.R. financing for up to 48 months on purchases of new Kubota M5L, M6L Series equipment from participating dealers' in-stock inventory is available to qualified purchasers through Kubota Credit Corporation, U.S.A.; subject to credit approval. Example: 48 monthly payments of \$20.83 per \$1,000 financed. Some exceptions apply. Offers expire 09/30/23. Terms subject to change. 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, disclaimer, safety, incentive offer and product information, consult your Dealer or KubotaUSA.com.



Old Bulls Bring New Genetic Benefits To Light

The Germplasm Collection at the National Animal Germplasm Program is an Invaluable Asset for Understanding the Genetics Heritage of U.S. Livestock and Preventing the Loss of Genetic Diversity



Two Holstein bull calves produced using NAGP germplasm samples in a collaborative work between USDA-ARS, Penn State, Select Sires, and TransOva. (Photo by Amy Duke, Penn State).

Animal genetics plays a crucial role in modern agriculture, enhancing food sustainability, and animal adaptation to a changing climate. Over the years, animal breeders have underlined the significance of genetics in enhancing animal productivity. Preserving diverse sources of animal germplasm is crucial to maintaining genetic diversity, which provides economic sustainability and food security in the face of new diseases and climate change, and advances our knowledge of animal genetics and genomics.

USDA's Agricultural Research Service's National Animal Germplasm Program (NAGP) has collected and preserved more than one million samples from over 64,000 animals across the United States. These samples, dating from the late 1940s to the present, aim to maintain the genetic diversity of American livestock, providing genetic security and improved understanding of genes that influence and control valuable animal characteristics.

"Over the last 24 years, NAGP has released almost 11,000 samples from the germplasm collection to breeders, university researchers, and others in the animal industry and scientific community for molecular studies and introduction of lost genetic variability in living populations," said Harvey Blackburn, NAGP animal geneticist and program coordinator. "The released genetic resources enable exploration into important livestock industry problems."

Recently, the use of NAGP collections has brought to

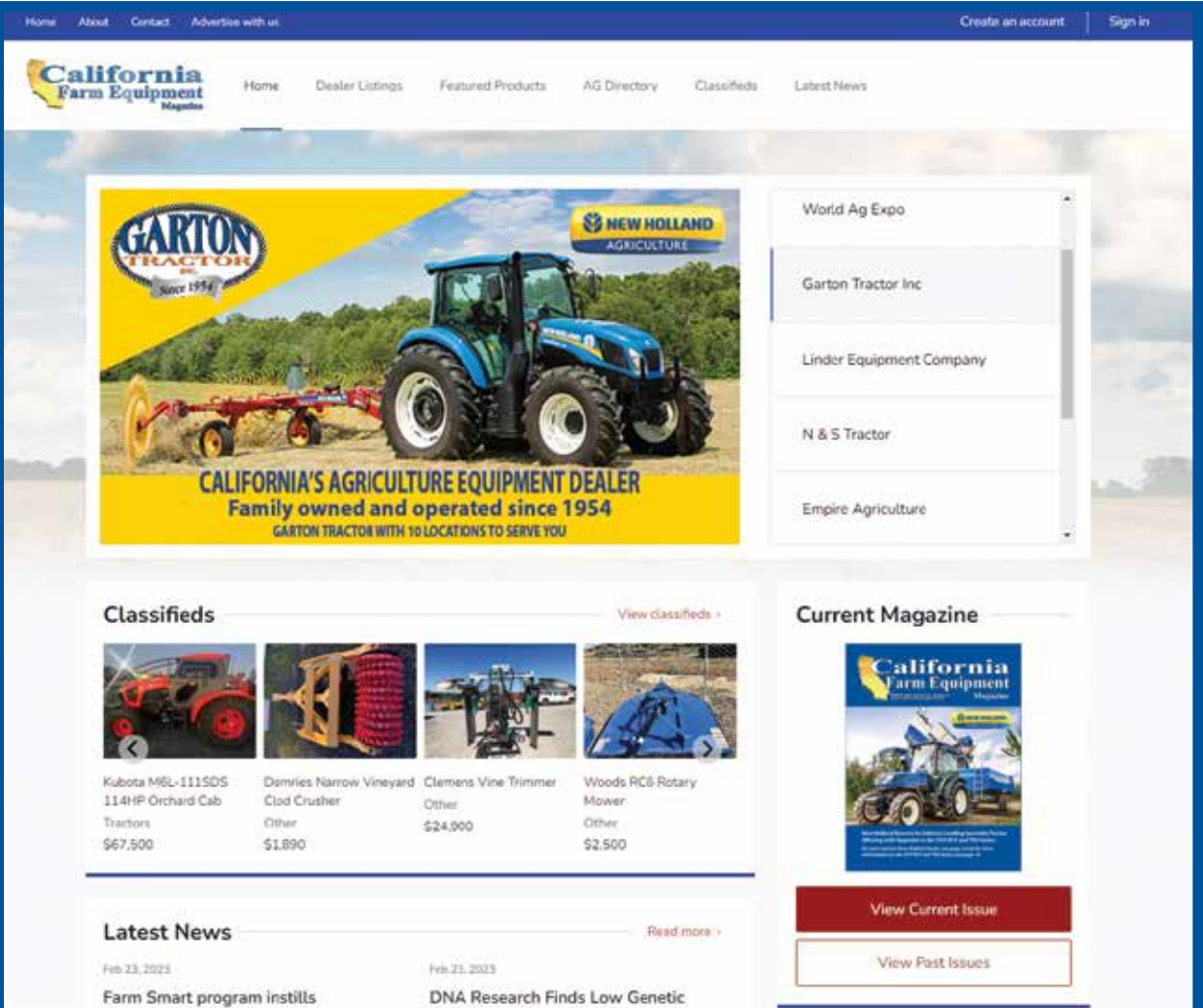
light interesting findings.

A beef cattle producer in South Dakota successfully incorporated samples from the NAGP repository into their breeding program. They requested and received semen samples from five Angus bulls born before 1997, which were used to mate with over 150 Angus cows. The resulting offspring are helping to modify the breeder's cow herd to meet their production and marketing objectives. Bull progeny from pre-1997 genetic resources have shown high performance levels for a combination of traits and are consistently highly sought after in the marketplace over the past few years. Researchers from NAGP and the Livestock and Range Research Laboratory are now studying the underlying genomic differences in progeny from these bulls older than 26 years old and the current population of Angus to better understand the basis for the higher performance levels.

This is not the first time NAGP animal geneticists and the industry have seen the positive impact of sampling older generations of sires in the collection. In 2020, Blackburn collaborated in a study completed by researchers from Pennsylvania State University's (PSU) Department of Animal Sciences. In that study, it was found that the entire U.S. Holstein population originated from two paternal lineage lines (only two different Y chromosome origins) traced to prominent 1970-era bulls. Through genomic and pedigree lineage tracing of samples in the germplasm collection, they found two additional, unique Y chromosomes that were lost in current Holstein lines due to selection. Calves were created using germplasm samples from these two bulls, and like the Angus example, the daughter progeny produced milk yields above the expected level and equal to their counterparts from the current Holstein genetic base born in the same year.

"These examples of how the animal germplasm collections are used in research and breeding programs are of great importance for the industry," says Blackburn. "Although large breeds of dairy and beef cattle, like Holstein and Angus, are believed to have no diversity issues, these examples have uncovered the opposite, especially with the lack of variation of the Y chromosome in Holstein bulls. Both the Angus and Holstein examples illustrate the value of the germplasm collection to broaden, and even rescue, genetic diversity, improve animal performance, and suggest to scientists that there is still significant research to be done in understanding the genetic basis for livestock performance."

The NAGP's gene bank also includes samples from aquatic animals (fish and shellfish), poultry, and insect populations. Animal germplasm requests can be submitted to the USDA Agricultural Research Service's NAGP, at Animal-Germplasm Request ([usda.gov](https://www.usda.gov)).



VISIT OUR WEBSITE **CFEMAG.COM**

- **FREE CLASSIFIED ADS**
(Create Account and Place Your FREE AD or Upgrade to a Photo Ad)
- **LATEST NEWS**
- **CLASSIFIEDS**
- **FEATURED COMPANIES**
- **VIEW CURRENT/PAST CFEM ISSUES**
- **UPCOMING EVENTS**
- **DEALER LISTINGS**
- **BANNER ADS**
- **FEATURED PRODUCTS**
- **HYPERLINK TO COMPANY WEBSITES**
- **AG DIRECTORY**
- **DIGITAL SUBSCRIPTION FREE**
- **PRINT MAGAZINE SUBSCRIPTION (MAIL)**

Visit our New Website. We are a work in progress. Adding new information daily. If you encounter any problems please let us know. You can contact us at: 559-627-2182 or email: info@cfemag.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

Automatic Solar Water Pump System. Lower utility bills, no utility connect needed. Pushes up to 600 feet 30,000 gallons per day. Huge tax credits available. Call 530-273-4895

Harlo 6500 4WD, 4,646 Hours \$34,500
 Call 559-651-0330

John Deere 5083EN 2011, 83HP, 1700 hours, very nice condition. \$19,995 or Best offer takes it. Call 559-905-3130.

Steiger PTA310 1982, 3,453 hours, SN:152-01509, 310 HP, 6-cyl Cummins Diesel \$26,500. Call Richard 800-653-6279.

WATER PUMPING WINDMILLS with metal towers - New or Used windmills. prices start at \$2,500.00. Call Us at 559-779-8354

GENERATOR 65KW, 300 hours, al-most new. \$10,000.00 Call Jim 559-261-5469.

PLACE YOUR CLASSIFIED AD TODAY!

PUMA 200 RENTAL #4137, SN: ZGES02726



200 PTO HP, FT: 380/85R30
 RT: 380/90R46 w/duals,
 RW: 1,100 LBS, GPS ready,
 4 electronic remotes, warranty 6/21/21 end date or 5000 hrs. whichever comes first, now 2463 hrs.
Call For Price



PUMA 185 RENTAL
 #4131, SN: ZGES02638
 185 PTO HP, FT: 380/85R30
 RT: 380/90R46, RW: 1,100 LBS, GPS ready, 4 mech. remotes, warranty 5/27/21 end date or 5000 hrs. whichever comes first, now 2362 hrs.
Call For Price

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

WANTED

British White Hefers
 Extra Long Horns
 Watusi Cows
 Call 805-610-5855

2012 New Holland 235TL FOR BOOMER 24



Front End Loader 54"
 Bucket Attachment
 Stock #: FEQ966
\$3,225.00
 LOCATION: Salinas, CA

2016 New Holland T6.180 Row Crop



Used 180 HP, 4WD,
 9394 hours,
 Stock #FTT528,
\$23,725.00
 LOCATION: Salinas, CA

Coastal Tractor
831-757-4101

*Plus Taxes, Etc. on above equipment

RENTALS

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



New Kioti KL352
 2015- Bucket Size 60"
 3 PT SN:140702054
 Call For Price

Location: Bakersfield CA



2021 Nelson Hardie 3400P Pull Type Orchard Sprayer
 Call For Price

Location: Bakersfield CA

San Joaquin Tractor Co.
 Bakersfield, California 93305
 Phone:(661) 705-6133

WANTED

WANTED; Speedstar 71 cable tool well drilling machine with tooling 6" bit and tool string.
 Call Tim at 661-733-7677 (Palmdale)

WANTED: Cat D4-7U Series Bulldozer with Cat blade and Cat front pump.
 Call Tim at 661-733-7677 (Palmdale)

WANTED 3 PT. AIR-O-FAN like spray rig. Pump need not work but Fan must turn. Call 559-217-9957

WANTED International 150 grain drill planter, any condition. Email photo of planter: desertvistalnd@gmail.com

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

Mulrooney AUCTION COMPANY

AUCTIONEERS & APPRAISERS

Office 209-366-0600 Fax 209-366-1113

Post Office Box 748 / Galt, California 95632

info@mulrooneyauction.com • www.mulrooneyauction.com

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 please call

Kevin at 925-765-4849

FARMALL F12 Tractor \$1,600
JD (Old) Corn Planter..... \$500
ROOTS Duster \$300
500 Gallon water tank on trailer with pump \$800
FORKLIFT (Homemade)..... \$400
1955 CHEVY C30 flatbed dump \$3,500
1941 FORD 1½ ton truck..... \$3,500
 Ceres, CA **408-250-4725**

Equipment For Sale

8N Ford Tractor G/C.....\$3,000.00
8N Ford Tractor SOLD \$1,500.00
6' Pull Disc \$600.00
8'x6' Pull Spring Tooth.. \$700.00
3 Pt. Spike Harrow \$500.00
Leveling Float \$50.00
5' Drag Float..... \$75.00
6' Spring Roller \$100.00
Land Pride Scraper..... \$700.00

Call Larry or Text
209-815-1953

SUMMER SALE!



Gearmore SFG185H 73" 3point pto flail mower, offsetable, hammers \$6,599.00



Amarillo P100B262LA PRTBL Wind Machine (Frost Protection)..... \$55,199.00



Domries SN-W-2224F-9 \$13,765.00



Used Pull Style Disc, Gearmore G301 Off-Set Super Narrow 4' cut..... \$4,500.00



1-877-872-2867

www.gartontractor.com

QUALITY PEOPLE QUALITY PRODUCTS

Turlock • Newman • Fairfield • Fresno
 Madera • Merced • Modesto • Santa Rosa
 Stockton • Tulare • Ukiah • Woodland

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

SEPTEMBER

19-21: FIRA USA 2023 hits the ground with farming robots in Salinas, CA. The California Rodeo Salinas is set to become the hub of agricultural innovation as it hosts the 2023 edition of FIRA USA. The three-day event will bring together the AgTech automation community for a showcase of the latest robotic farming solutions, exhibitions, presentations, discussions, and networking opportunities.

JANUARY 2024

23-25: 2024 Unified Wine & Grape Symposium. Program features sessions and a two-day trade show. Safe Credit Union Convention Center, Sacramento, CA.

FEBRUARY 2024

13-15: World Ag Expo® is one of the largest Agricultural Expositions in the world with more than 1,200 exhibitors on 2.6 million square feet of exhibit space! The show offers a wide range of agricultural-related exhibitors and seminars. While you can learn more about innovative agricultural projects, you can also network, try, and buy. See the future of agriculture at World Ag Expo®! For more information go to: worldagexpo.com

APRIL 2024

19-21: California Antique Equipment Show. Welcome to the best show in the West for old iron! FAMILY FUN AROUND EVERY CORNER. Visit agriculture’s past by learning about tractors, engines, equipment, and more. Located right off Highway 99, the International Agri-Center® is easy to get to. For more information call 559.688.1030 or 800.999.9186.

antique@farmshow.org

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.

The World's First AI-Driven, Solar-Powered, Agricultural Robotics Service

The fossil fuel-free Aigen Element helps farmers reduce chemicals in food, and improve human and planetary health



Offered as a service, Aigen's vehicles reduce farmers' workload and their reliance on fossil fuels, while increasing their crop and soil health.

Photo by Peter Bohler

Aigen, a Seattle-based agricultural technology startup, today unveiled a groundbreaking autonomous, scalable robotics platform, powered entirely by solar and wind energy. Leveraging proprietary, quantized AI, the Aigen Element service is the only farming solution that decreases fossil fuel use, while also providing farmers with invaluable real-time field insights, increased time savings, and reduced costs.

"Aigen was founded on the idea that there should be an alternative to the fossil fuels and pesticides used to produce our food. We have been working closely with farmers, like my family in Minnesota, to develop a solar-powered, on-edge AI platform that makes precision Ag scalable," said Rich Wurden, co-founder and CTO of Aigen. "We are excited to share those tools with the introduction of the Aigen Element."

Earlier this year, 2024 and 2025 pre-orders for the Element Service sold out in one day, further demonstrating the excitement among U.S. commodity farmers for more effective approaches to weeding. In the U.S. alone, farmers use 900 million pounds of herbicide annually, and in the next few years, costs are expected to exceed \$100 per acre. Plus, in 2019, farm equipment released 100,000 metric tons of carbon dioxide equivalent emissions.

"Farmers tell us again and again that weeds are

the number one problem they face. So, that's where we're starting: developing a solution for farmers to immediately reduce their costs and get rid of weeds, all while growing healthier crops," said Kenny Lee, Aigen's co-founder and CEO. "The benefits of our advanced, lightweight, super agile robots go far beyond weeding. We are excited to deliver field-level network connectivity and real-time data and insights that farmers can access from anywhere."

Artificial Intelligence,
Powered by Renewable
Energy

Aigen's unique robotic solution is possible thanks to the company's propri-

etary quantized AI, which is so efficient it can run exclusively on renewable energy. "The average cell phone needs 4 Watts of power. Our AI models need only 1.5W, and everything about our vehicle is just as efficient. Paired with a custom 205W solar panel, our robots often generate a power surplus at the end of a full day of running," added Wurden.

Plant-Level Data, Planetary Connectivity

Aigen's vehicles continuously transmit field and crop data to an in-house developed mobile app, offering farmers real-time insights. "We're bringing satellite technology down to earth, and deploying mesh network connectivity built on a robust, self-reliant hardware platform. This offers farmers higher resolution, real-time data and helps them get ahead of problems," said Puneet Khattar, Aigen's head of electrical engineering, who previously worked on Amazon's satellite program and at SpaceX.

Rugged and Agile Hardware

Every aspect of the Aigen Element robot is built for maximum efficiency on the farm. The lightweight frame and solar panel, paired with regenerative motors and rugged suspension, allow the robots to effectively navigate and weed row crops for up to 14 hours a day in nearly any weather condition.

The Aigen Element Service will debut on over 20,000 acres of U.S. farmland in 2024.

PX SERIES
93-110 HP



0% UP TO **48** MONTHS **OR** **\$ UP TO 5800** CASH BACK* (T-L)
FINANCING* **MONTHS** **CASH BACK* (T-L)**

ACTON
TRAILER SUPERSTORE
(661) 233-1166

DELANO
SAN JOAQUIN TRACTOR
(661) 725-2531

STOCKTON
N&S TRACTOR CO.
(209) 944-5500

WILLOWS
N&S TRACTOR CO.
(530) 934-3382

BAKERSFIELD
SAN JOAQUIN TRACTOR
(661) 324-4517

EXETER
EXETER MERCANTILE
(559) 592-2121

TURLOCK
N&S TRACTOR CO.
(209) 634-1777

YUBA CITY
N&S TRACTOR CO.
(530) 923-7675

COLUSA
N&S TRACTOR CO.
(530) 458-2166

RIDGECREST
AMERICAN LOAN MASTERS
(760)-308-1018

WASCO
SAN JOAQUIN TRACTOR
(661) 758-3053

KIOTI.com

*Offer available July 1, 2023 – September 30, 2023. *Offer available March 1, 2023 – June 30, 2023. Rebates and/or financing based on the purchase of eligible equipment defined in promotional program. Pricing and rebates in USA dollars. Additional fees including, but not limited to, taxes, freight, setup and delivery charges may apply. Financing must be through DLI using one of the available financing options. Financing is subject to credit approval. Customers must take delivery prior to the end of the program period. Some customers will not qualify. Some restrictions apply. Offer available on new equipment only. Prior purchases are not eligible. Offer valid only at participating Dealers. Offer subject to change without notice. See your dealer for details. Offer valid only at participating Dealers. Offer subject to change without notice. See your dealer for details. © 2023 Kioti Tractor Company a Division of Daedong USA, Inc.

Auctions

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

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

Equipment

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

Big Valley Tractor
.....www.bigvalleytractor.com

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

Case Corporation
.....www.casecorp.com

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

Diamond A Equipment
.....www.diamondaequipment.com

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

Donahue Corporation
.....www.donahue-trailers.com

Farmers Tractor
.....www.farmerstractor.net

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

Grasshopper
.....www.grasshoppermower.com

Hanford Equipment Company
.....www.kubota.com/DealerWeb/kubota/
HanfordEquip_Hanford

Hesston by Massey Ferguson
.....www.hesston.com

Klamath Basin Equipment
.....www.klamathbasinequipment.com

Kubota Corporation
.....www.kubota.com

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

Linder Equipment
.....www.lindereq.com

Madera Tractor
.....www.maderatractor@madnet.net

Massey Ferguson
.....www.masseyferguson.us

N & S Tractor
.....www.nstrac.com

New Holland
.....www.newholland.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
.....sanjoaquintractor.com

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

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

Valley Tractor
.....www.valley-tractor.com

Woodland Tractor & Equipment
.....www.WoodlandTractor.com

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

Manufacturers

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

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

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

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

Farm Shows

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

Colusa Farm Show
.....www.colusafarmshow.com

World Ag Expo
.....www.worldagexpo.org

Federal Government

Army Corps of Engineers
.....www.wetland.usace.mil/

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

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

National Weather Service
.....www.nimbo.wrh.noaa.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.cdrf.org

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

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

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

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

Far West Equipment Dealers Association
.....www.fweda.com

Real Estate

Schuil & Associates
.....www.schuil.com

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.cdca.ca.gov

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

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

Universities

Berkeley Agriculture and Resource
Dept.....are.berkeley.edu

Davis Agriculture Department
.....www.agecon.ucdavis.edu

Weather

The Weather Channel
.....https://weather.com

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

Website: californiafarmequipment.com

Telephone: (559) 627-2182

E-mail: info@cfemag.com

California FarmLink Program Helps Farmers Plan Successions Successfully

According to the USDA's Census of Agriculture, fully 96% of the nation's 2.2 million farms are family-owned and operated. But as the baby boom generation continues to age, an estimated 70% of U.S. farmland will change hands in the next 20 years – and the USDA warns that if a farm or ranch family has not adequately planned for succession, it is likely to go out of business, consolidate into larger operations with neighboring farms, or be converted to non-farm uses.

To help farming families plan for a successful succession, California FarmLink – a certified nonprofit Community Development Financial Institution – recently launched *The Regenerator: A Year of Farm Succession Planning*. The program is designed to walk families through all the issues that can arise to help ensure that succession goes smoothly. The next cohort of family farmers and ranchers will begin work in November, said Liya Schwartzman, FarmLink's Senior Program Manager for their Equity and Observation Working Lands division.

"FarmLink actually started out in 1999 with a focus on supporting retiring farmers to find someone to lease or take over their operations, but the work we were doing had its limitations. Short workshops weren't cutting it, and it's hard to maintain a trajectory when you're working with 20 families in different stages of planning," Schwartzman said.

"I thought there must be a better way, and after we studied programs across the country, we came up with a cohort model to bring people in who are in similar stages of being ready to seek assistance in transferring their land and their businesses to successors."

FarmLink launched *The Regenerator* as a small pilot program in the fall of 2021 with just three families involved, and all three completed the program and created executable plans. After reviewing and fine-tuning the program, the nonprofit is hoping for seven to 10 participants this year, with a vision of scaling up the program in future years.

FarmLink engages a team of professionals – including CPAs, estate-planning attorneys, appraisers, and transition specialists – to aid the families in crafting plans that fully meet their unique needs. The program also provides \$1,600 to each participating group to work with these providers, using funds provided by a USDA educational grant.

Schwartzman said one of the first things that a family needs to do is determine if family members are interested in taking over and how that would occur.

"The majority of successors may be heirs, but there is a trend of the immediate heirs moving away from farming. Sometimes the family will have grandchildren who want to come back to the farm, but if nobody in the family is interested, retiring farmers will need to look outside the family. Often a farm manager could be a perfect successor," she said.

"But people should start sooner rather than later be-

cause it can take several years to find the right successor and complete the transition process."

As part of its efforts to support nonprofits making a difference in California agriculture, four Farm Credit organizations serving the state's farmers and ranchers – AgWest Farm Credit, American AgCredit, CoBank and Fresno Madera Farm Credit – have sponsored FarmLink since 2018. These organizations are part of the nationwide Farm Credit System, the largest provider of credit to U.S. agriculture.

Kevin Ralph, California State President for AgWest Farm Credit, said participating Farm Credit organizations are proud to support FarmLink's efforts to preserve family farms.

"This is a relationship-driven business and Farm Credit prides itself on being trusted advisers to our customers – really understanding our clients' business and educating them on their options," Ralph said. "FarmLink's novel program builds on that and will really help farming and ranch families properly manage their succession issues."

Regional Marketing Manager Jacob DeBoer with American AgCredit also noted that the evolution of agriculture is inevitable – and exciting. A sizable percentage of farms without family members who want to take over the operation is providing opportunities for new and up-and-coming farmers – especially women and Latinos – to purchase farm and ranch lands and create strong, viable operations.

"There are nearly six times more California farmers age 65+ than ones under 35," DeBoer said. "This succession tsunami will provide opportunities to expand the diversity of California agriculture, which will help ensure a prosperous future for farming and ranching in the Golden State."

Schwartzman said another key component of the program is working to build communications skills.

Succession planning most often falls apart when retiring farmers, their heirs and successors, have a breakdown in communication. This can be a very emotional and very intense time. It means someone will no longer be with us when plans are executed. And also, it's the transfer of something the retiring generation has spent a lifetime building, so not preparing and educating people about effective communication skills and including a plan for mediation is to do a disservice and can be the downfall of the transition," she said.

But the biggest reason FarmLink is working to provide succession planning is the potential impact of so many farms changing hands.

"This will shape the food system for the following century. We need to put as many resources as we can behind preserving and growing these farm businesses that are about to go through these transitions," she said.

Applications are still being accepted for this year's program. For more information, visit <https://www.californiafarmlink.org/courses/the-regenerator> or contact Schwartzman at liya@cafarmlink.org

New Holland Launches New Durabine™ 413 PLUS Disc Header for Speedrower® PLUS Windrowers

New Holland Agriculture North America has introduced the new Durabine™ 413 PLUS disc header for Speedrower® PLUS Series self-propelled windrowers. The new header features a cut width of 13' 1" (4.0 m), offering customers a new head size option to choose from to fit their needs. It also provides greater maneuverability, fast dry down time and close cutting.

"The new Durabine 413 PLUS compliments our Durabine™ Series disc header lineup well by offering customers a new choice to enhance productivity and provide greater maneuverability on-road and in-field," says Melissa Kelly, livestock & dairy segment lead for New Holland Agriculture North America. "When combined with the productivity, precision and performance of our Speedrower® PLUS Series self-propelled windrowers, customers will have a fast-moving and fast-mowing combination."

Built in New Holland, Pennsylvania, the Durabine 413 PLUS disc header features the same cutterbar and conditioning systems featured on the Discbine® 313 PLUS center-pivot disc mower-conditioners.

"We're utilizing proven, commercial-grade components like the MowMax™ II PLUS modular cutterbar and the 125-inch-wide (3175 mm.) chevron-pattern steel or rubber conditioning rolls to give haymakers a new option for more productivity," says Josh Harkenrider, commercial hay & forage product marketing manager for New Holland Agriculture North America. "Windrower owners with sickle headers in search of greater capacity and center-pivot disc mower-conditioner owners looking to step up to a windrower without upgrading other equipment like their rake now have a new option to

consider."

With a cutting width of 13' 1" (4.0 m), the MowMax II PLUS modular cutterbar delivers the cleanest, closet cut yet from New Holland. To ensure as much crop is cut as possible, a cutting height as low as half an inch (12.7 mm) is achievable, just like the rest of the Durabine PLUS Series. To save customers' valuable time, the QuickMax™ knife-change system is standard along with the ShockPRO™ hubs for added protection. As a result of its size, the Durabine 413 PLUS has an overall width of just 13' 6" (4.11 m).

"It's perfect for traveling down tight roadways, entering through gates at the field and maneuvering in small fields or around obstacles," Harkenrider says.

From the cutterbar, crop is transferred directly into a 125-inch-wide (3175 mm.) chevron-pattern steel or rubber roll conditioning system without requiring an auger.

"The cutterbar and conditioning system widths provide a cut-to-conditioning ratio that promotes fast dry down," Harkenrider adds. "In light or late-season crops, operators can also swap the sheaves to slow the rolls from 750 rpm to 640 rpm, just like the Discbine PLUS Series center-pivot disc mower-conditioners."

Easy access to the cutterbar and drive components makes maintenance simple. Like a Discbine® 313 PLUS center-pivot disc mower-conditioner, the Durabine 413 PLUS also has poly bifold upper shields that are easy to lift and impact resistant to avoid dents from foreign objects. The roll drive door is made from durable poly and has a steel plate at the bottom for added protection. Material overlap keeps the curtains in place without clips or magnets.

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!

MAKE THE RIGHT MOVE FOR TOMORROW, TODAY.



Plan ahead for your equipment and production needs. Act now to lock in the best pricing and secure the equipment you need for the season ahead. Make smart decisions for a successful year. That's the right move. And it starts at your New Holland dealer. **Stop in today!**



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

TOM DUNCAN
tduncan@precisionairsystems.com