

A Real Cowboy in the Movies

in history to have won both an Academy Award and a world team roping championship? (Wow, that's like Patrick Mahomes getting a Pulitzer Prize to go with

Who is the only person the Super Bowl MVP ring). Only one person has accomplished this dual feat for his work in movies and in rodeo: Ben Johnson from Pawhuska, Oklahoma. I recently visited the

Ben "Son" Johnson

By Ron Wilson, Poet Lariat He grew up in Oklahoma, a working rancher's son, And learned to rope and ride, just like his father'd done. He was Ben Johnson, Jr., a day-workin' cowboy. Workin' horses and cattle were the skills he would employ. Then a Hollywood director had to buy a big horse herd, And hired Ben to make sure that the horses were delivered. He took 'em on to Hollywood and when folks saw his skills, They hired him as a stunt man for the role which that fulfills. Then he became an actor and moved into starring roles, Found in 300 movies on the Hollywood payrolls. One year he was world champion roper at the rodeo, And later won an Oscar in The Last Picture Show. We salute Ben Johnson, Jr. for the values which he stood. As an actor and a cowboy in the realm of Hollywood.

Happy Trails!

new Ben Johnson Museum in Pawhuska when I had the opportunity to present cowboy poetry there.

Ben was the son of Ben Johnson, Senior, a rancher and champion roper. In fact, young Ben was known to friends and family as "Son" Johnson.

Young Ben Junior grew up cowboying in Oklahoma for \$30 a month. In 1940, a Hollywood moviemaker wanted to buy a bunch of Oklahoma horses for a movie he was filming. Ben Jr. was offered \$300 a month to deliver the horses, which he did.

The Hollywood movie production crew noticed his skills with horses and hired him on as a wrangler and stunt man. Before long, he was a stunt double for actors such as John Wayne, Henry Fonda, and Jimmy Stewart. He even joined the Screen Actors' Guild.

One day he was working as a stunt double for legendary director John Ford. Ben was horseback behind the camera, waiting for his part when a horse spooked and ran away with a wagon carrying three actors toward a cliff. Ben took off on his horse and was able to catch the wagon and save their lives - just like in the movies. John Ford told him, "You will be rewarded for this." Ben hoped that meant he would get another job as a double. Instead, John Ford gave him a seven-year acting contract for \$5,000 a week (Note: Going from \$30 a month to \$20,000 a month seems like a good career path).

Ben Johnson embarked on a long Hollywood career, primarily making westerns while rodeoing in off times. He earned lead roles and co-starred

Grass & Grain, November 30, 2021 with John Wayne and others.

In 1953, he had another idea. Remembering how his father had been a champion roper, Ben decided to take a break from the movies and go on the rodeo circuit. At the end of that year, he earned the title of World Champion Team Roper.

He would later say "I'm prouder of that than anything I've ever done." However, he also said that, at the end of that year. he came home with \$3. a worn-out car, and a mad wife (I'm afraid a lot of rodeo riders can relate to that story). Ben re-entered the movie business with much success (His wife took him back too. They were married for 53 years before she passed).

In 1971, he was asked to play a major role in the movie The Last Picture Show. Johnson refused be-

Page 13 cause of the curse words used by his character. He finally relented when all the swear words were removed from his speaking parts. That role earned him an Oscar for best supporting actor.

Ben Johnson would appear in more than 300 movies and earn a star on the Hollywood Walk of Fame. In 1996, he died of a heart attack at age 77 while visiting his 96-year-old mother.

In June 2019, the Ben Johnson Museum opened in his hometown of Pawhuska. Besides showcasing Ben Johnson's career, it highlights other world champion cowboys and cowgirls, famous Oklahoma ranches, and cowboy artists and craftsmen. I definitely recommend it.

I tip my hat to Ben Johnson, who could wrangle both horses and Hollvwood.

Tetracore, Inc. introduces first USDA-licensed real-time PCR test for detection of Foot and Mouth Disease virus in bovine, swine and ovine

Tetracore has announced the licensing of their VetAlertTM Foot and Mouth Disease Virus (FMDV) RNA Diagnostic Test Kit by the United States Department of Agriculture (USDA) Center for Veterinary Biologics (CVB). It is one of the first licensed FMD diagnostic kits that can be manufactured on the U.S. mainland, critical for a rapid response in the event of an FMD outbreak. Additionally, this diagnostic kit provides animal health first responders with a

critical tool to mitigate the potentially catastrophic economic and animal welfare impacts of an FMD outbreak.

> **Providing Advanced** Molecular and Immunological Detection

The VetAlert FMDV RNA high-performance test kit was developed by Tetracore scientists and will be commercialized and sold by Tetracore.

Nearly two decades ago, Tetracore validated and published a real-time RT-PCR assay for FMDV,

as described by Callahan et al. 2002. The primer and probe set from the publication became part of the OIE and USDA reference test methods.

"It is well-known that RNA viruses mutate and evolve, and for this reason, established PCR test designs should be periodically re-evaluated to ensure that the test designs remain fit for purpose," says Dr. John Callahan, business development manager and USDA CVB liaison for Tetracore.

With this in mind,

Tetracore evaluated contemporary FMD viral sequences to design a new primer-probe set that was blended with the original test to create an updated FMDV rRT-PCR, the VetAlert FMDV RNA Test Kit.

The updated test design was validated in studies with the Pirbright Institute in the UK and the National Center for Foreign Animal Diseases (NCFAD) in Winnipeg, Canada, and performed well compared to their reference test methods.



- 10 blk SimAngus strs, long weaned, 2 rds shots, 700-750lbs.
- 12 SimAngus strs, 2 rds shots, weaned 50 days, 525-575 lbs.
- 50 choice reputation SimAng strs, 2 rds shots, weaned 40 days, no implants, 600-700 lbs.
- 118 Red Ang & Blk Ang strs & hfrs, 1 complete pre-weaning shots, wormed, 575-700 lbs.
- 65 Blk strs & hfrs, 2 complete rd shots, weaned 3 weeks, 500-650 lbs.
- 41 Blk BWF strs & hfrs, 2 rds shots, bunk broke, weaned 40 days, 500-650 lbs. 60 Blk & Red yearling feeder strs 825-875 lbs.
- 7 SimAngus strs & hfrs, 2 rds shots, weaned Sept, 700-750 lbs.
- 3 SimAngus strs & hfrs, 2 rds shots, weaned Sept, 700-750 lbs.
- 2 butcher steers, 1300-1400 lbs.

EARLY CONSIGNMENTS FOR DEC. 10

- 80 choice reputation Red Angus strs & replacement guality hfrs, weaned 10 days, 2 complete rd shots, 550-650 lbs.
- 39 Angus strs & hfrs, 2 complete rd shots, weaned 50 days.

SELLING AT 12:00 NOON:

57 big home raised, gentle, blk SimAngus SS cows, many River Creek genetics bred SimAngus bulls, due Jan. 8. 2021 born strs weaned, 760-

930# w/ many 820-850#.

MATURE COW HERD DISPERSAL CONSISTING OF: 65 blk

bwf cows, 5 yrs & older, bred River Creek SimAng bulls to start calving Feb. 10.





- Angus bull, due March 11.
- 50 choice South Dakota origin Red Angus 1st calf OCV bred hfrs. Bred to Tanner, Kniebel, & Pieper 13-17 calving ease LBW Red Angus bulls for Feb. 1 calving for 60 days. Current on all breeding shots, plus 1st rd Scour Bos.
- 50 big choice blk 1st calf hfrs bred to Mytty In Focus & Final Answer Angus bulls for Feb. 1 calving for 60 days. Current on all breeding shots, plus 1st rd Scour Bos.
- 42 home raised Blk BWF 1st calf OCV hfrs, A-I bred to Select Sires SimAngus high calving ease bull, due Feb. 13, cleaned up with a Schaake SimAngus calving ease bull. Hfrs are current on shots including 1st round scourguard.
- 45 fancy Angust 1st calf OCV hfrs bred LBW Ang bull, due Jan. 22.
- 18 F-1 Char Angus cross 1st calf fhrs, bred Ang bull, BW EPD -1.6, calving ease 13. Due March 1 for 60 days.
- 65 home raised Red Ang & blk Ang 1st calf OCV hfrs, pelvic measured, bred LBW Huninghake Red Angus & blk Angus bulls. Due March 1 for 60 day calving.

BRED COWS

- 100 choice Blk & BWF cows, 3-6 yrs, blk Sim & blk Angus bulls turned in May 1, all shots.
- 15 Red & Red Baldy cows, 3-6 yrs, blk Sim & blk Angus bulls turned in May 1, all shots.
- COMPLETE DISPERSAL CONSISTING OF: 35 home raised Angus hfrs & cows, 2-6 yrs. HFRS: LBW Barnett Hereford bull turned in May 1 for Feb.-March calves. COWS: LBW Hebbert Char bulls turned in May 1 for Feb.-March calves.
- 50 blk, BWF cows, 3-5 yrs, bred Ang bulls for Feb. & March calving. Cows all worked & poured. 30 gentle Montana origin, One Iron Blk cows, 3-6 yrs, bred Blk Angus bulls, due March 1 for 60 days calving, Fall shots, poured.
- 15 home raised Ang cows, 7-8 yrs, bred Vermillion Ranch Ang bull to start calving March 1.
- COMPLETE DISPERSAL CONSISTING OF: 35 blk cows, 4 yrs to SS, bred Angus for Feb. 20 calving.

COW/CALF PAIRS

- 45 big choice fancy Red Angus & Red Baldy Sand Hill origin Fall calving cows, 3-5 yrs w/ Oct.-Nov. DeBrucker Char sired calves by side. These cows have been exposed to Red Angus bulls since Nov. 22.
- 20 blk & Red Fall calving cows, 4-6 yrs, with late Oct. early Nov. Angus & Char cross calves by side. Calves have had Enforce 3, Blackleg, bulls worked.
- 15 blk & Red Angus cows, 3-5 yrs with 30 day calves by side.
- 30 blk & Red cows, SS to older with 30-45 day Blk & Red calves by side, calves have had Enforce 3.

FOR A COMPLETE LISTING VISIT OUR WEBSITE AT MCCLIVESTOCK.COM

Upcoming Special Stock Cow & Bred Heifer Sale Dates • Wednesdays starting at 11:00 AM

2021: November 17, December 15. 2022: January 12, February 16, March 16, April 13, May 4.

VISIT US ON THE WEB FOR DAILY CONSIGNMENT UPDATES AT WWW.MCCLIVESTOCK.COM

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Grass & Grain, November 30, 2021



Pictured from left are Kathy and Bill Hogue and Bill Edwards, Chair of Kansas Association of Conservation Districts (KACD) Grassland's Committee.

Hogues recognized for grassland management

On November 22, 2021 Bill and Kathy Hogue of Mission Valley Ranch, Topeka, were recognized for their exemplary management of their grassland at the Kansas Association of Conservation Districts (KACD) Annual Convention's Awards Banquet held in Wichita.

Bill and Kathy have removed trees, brush and invasive plants, keeping the natural balance for the sustained health of the species being managed on their ranch. The Hogues have grassland in both Shawnee and Wabaunsee counties and have maintained them both well. They were recognized by the Wabaunsee County Conservation District in 2010 and were the 2020 Grassland Award winners for Shawnee County by the Shawnee County Conservation District. A submission was made to the Grassland Committee of KACD for the 2021 Grassland Merit Award and their selection of the Hogues was made.

This award is a reflection of conservation awareness; a lifetime spent sharing the word and a job very well done.



Friends of Kansas Extension Association of Family and Consumer Sciences (KEAFCS) Award presented to Wichita Police Department, Patrol North Community Policing

Kansas Extension Association of Family & Consumer Sciences awarded Wichita Police Department, Patrol North Community Policing for their unique community involvement

Friends of Kansas Extension Association of Family and Consumer Sciences – is the highest recognition presented to a non-Extension person, business or organization and is designed to recognize truly outstanding support and personal involvement in Extension efforts.

The Wichita Police Department (WPD) partners with the Sedgwick County Extension Office to engage with the community via Bonding thru Board Games (BTBG). This activity provides an opportunity for the community to get to know the men and women who serve them not as cops but as people. Since 2010, the WPD has volunteered over 600 hours to help strengthen the habits that BTBG promotes: quality time, appreciation, effective communication, values and convictions, coping skills, and commitment. The officers that participate in the program greet people as they arrive, teach people the rules of the games, and most importantly, participate in gameplay and social connection. Wichita Police Department Sergeant Bart Brunscheen has



volunteered since 2010 in his off-duty time. Officer Brent Johnson coordinates other officers involved in the program.

In addition to participation in the program, Office Paul Cruz advocates for the Family Life programs at the Extension center by posting applicable events on the WPD Facebook page. During the COVID-19 pandemic, Officer Brent Johnson helped play test board games virtually. Through the interactions made in this program, Chief Ramsey invited Family Life and Resource Management Agent Liz Brunscheen-Cartagena to participate in the Hispanic Advisory Committee.

The WPD and Sedgwick County Extension are working together to promote both of their common visions. The WPD is "building honest and open external relationships through open communication, inclusion, and trust." The Sedgwick County Extension Center is "delivering education programs that result in improved leadership skills in the areas of communication, group dynamics, conflict resolution, issue analysis, and strategic planning." When the Sedgwick County Research and Extension office presents the BTBG program, they encourage institutions and individuals alike to reach out to their local police departments to build relationships among their communities. These bonds are essential to healthy infrastructure within our society. K-State Research and Extension agent and volunteers run the program. Individuals looking for volunteer opportunities could go: http://unitedwayplains. galaxydigital.com/need/detail/?need_id=487590.

K-State Research and Extension — Sedgwick County offers Bonding thru Board Games, a program for families to come together to play board games every other month through the year. 2021 event dates are posted at www.sedgwick.ksu.edu under Bonding thru Board Games.

The program is a tool to help family members carve out quality time and connect with one another in ways that activities in our everyday lives sometimes inhibit, Brunscheen-Cartagena said.

For more information, visit sedgwick.k-state.edu.

Despite weather challenges, USW report details how U.S. HRW crop quality meets customer needs

Quality testing results are in for this year's U.S. hard red winter (HRW) crop. Global customers will once again be able to purchase good quality wheat that provides high value, according to a recently released report by U.S. Wheat Associates (USW).

"HRW sets the standard that international buyers gauge for quality around the world," said Kansas Wheat CEO Justin Gilpin. "While the environmental impact each year results in a different crop, the USW report outlines how HRW continues to provide high value to world buyers despite the slight difference in strengths and weaknesses of each year's harvest."

es of each year's harvest." The 2021 Crop Quality Report is the latest in a series of reports by USW, the wheat industry's export market development organization. Each year, the organization gathers thousands of samples throughout the harvest season and at export locations to analyze for wheat, flour and end-product qualities. These results are compiled into an overall report for all six wheat classes and broken down into individualized reports by wheat class.

Wheat producers in Kansas and throughout the HRW growing region faced variable growing conditions that influenced the wheat crop, including regional swings in temperature and drought that led to mixed protein, lower yields and smaller kernels. Despite these challenges, USW reported the HRW crop "has generally good kernel characteristics with flour, dough and bake attributes equal to or better than last year and many five-year averages." Additionally, the crop quality report stated, "The loaf volumes achieved indicate there is sufficient protein quality to make pan bread that easily exceeds the U.S. quality target for loaf volume, with dough mix times and stabilities that are slightly greater than the five-year averages."

"This year has once again provided its share of uncertainty for wheat producers, handlers and buyers. We have seen challenges from drought, variable trade policies and the ongoing global pandemic," wrote USW president Vince Peterson in the opening of the report. "Through it all, the entire U.S. wheat industry remained fixed on providing the highest quality wheat for almost every customer need, backed by transparent pricing, trusted third-party certification and unmatched service before and after the sale."

USW will now take this information to overseas customers through an annual series of crop quality seminars, led by USW staff, growers, wheat commission staff and partner organizations. These seminars dive into grade factors, protein levels, flour extraction rates, dough stability, baking loaf volume, noodle color and texture and more for all six U.S. wheat classes and are tailored to focus on the needs and trends in each regional market.

Kansas Wheat regularly participates in these programs to provide personalized information to each market and receive feedback directly from customers. This informational exchange is important as about half of the Kansas wheat crop is exported each year into a competitive world market, and these programs keep current and future customers informed on crop condition, quality and trade flows.

"Customers with more information are better customers," Gilpin said. "Sharing the quality attributes with customers helps to build trust in the quality, reliability and value of the Kansas HRW harvest." Read the full HRW crop quality report at https://www.uswheat. org/wheatletter/abundant-2021-hard-red-winter-crop-reflects-expected-functionality-value/.

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In an historic one-day special session of the Kansas Legislature, Republicans gathered on Monday, November 22nd and united to push back against federal overreach from the current administration's COVID-19 mandates. Never in the history of our state has the legislature called itself back into a special session. This unprecedented action was necessitated by equally unprecedented orders from the Biden administration when it unilaterally enacted these mandates, without respecting the constitutional lawmaking power reserved for Congress. Never in the history of our Republic has the federal government forced Kansans to choose between their personal beliefs and their livelihoods. Working together, Republicans passed legislation to protect the religious freedom, health freedom, and employee rights of Kansans. Governor Kelly signed HB2001 into law on Tuesday, November 23rd.

The "Special Committee on Government Overreach and the Impact of the Covid 19 Mandates" that was authorized by the Legislative Coordinating Council on September 27th first listened to days of public testimony regarding the hardships endured mandatory concerning vaccination. They then worked diligently to create constitutionally sound legislation that was debated, amended, and passed during the efficient, oneday special session. It was important to quickly pass legislation that was easily understood and become law that would withstand scrutiny, helping real Kansans struggling in the face of federal overreach.

Facts about HB 2001-This bill ensures Kansans are not subject to overreaching federal COVID mandates. It does so by offering several broad exemptions:

• Employers will be required to grant a medical exemption subject to a waiver request signed by the employee's health care provider. The health care decisions of Kansans are best made by the individis required to receive a religious exemption is a signed, written statement from the employee.
Employees are protected from pupiling as

tected from punitive action. If an employee receives a COVID-19 exemption they should not suffer retaliatory actions from their employer.

· Administrative enforcement mechanisms are in place. If an employee is improperly denied an exemption, they can file a complaint with the Kansas Department of Labor. The Department of Labor is required to promptly investigate, and it must be completed within 60 calendar days. During the investigation the employer may resolve the complaint by reinstating the employee with back pay. If the Department of Labor finds that a violation has occurred and the employer does not correct that violation, the Kansas Attorney General is authorized to fine the employer. For employers with fewer than 100 employees the fine is not to exceed \$10,000 per violation. For employers with 100 or more employees the fine is up to \$50,000 per violation. These fines will be paid into the Kansas Unemployment Trust Fund.

• HB2001 is not anti-employer. It is pro-employee, and it opposes federal overreach. Employers are provided with clear direction on the exemption process. Employers that ignore the exemption requirements or take punitive action against their employees will face repercussions.

• HB2001 is not anti-vaccine. Kansans can be pro-vaccine and still not support the massive overreach of the Biden administration. Every Kansan has different circumstances and different reasons for the choice they make regarding the vaccine. We must allow individuals to decide for themselves the best way to manage their health without onerous mandates.

• Language is included ensuring that an individual will be eligible for unemployment benefits

Kansas Hay Market Report

****SPECIAL NOTE: DUE TO THE THANKSGIVING HOLIDAY, THERE WILL BE NO REPORT NOVEMBER 30TH. THE NEXT REPORT WILL BE ISSUED DECEM-BER 7TH.

For the week ending November 20, hay market prices steady for alfalfa and grass hay and trades remained slow. Most hay activity remained quiet as everyone continues to finish up harvest with lots of milo still in fields. According to the U.S. Drought Monitor for the week of November 16th, drought worsened and expanded in some locations in eastern Colorado and western Kansas, as soil moisture continued to decrease and precipitation deficits on the short- and long-term continued to grow. Most of the High Plains saw a warmer than normal week, with the warmest temperature anomalies (4 to 10 degrees above normal) taking place in western Nebraska and Kansas. Abnormally dry conditions (D0) increased to 18%, moderate drought (D1) decreased to 8%, and severe drought (D2) increased to near 4.5%. The annual Winter Forage Conference hosted by the Kansas Forage and Grassland Council will be held December 8th at the Harvey County 4-H Building in Newton. For more information, please visit their website: https://ksfgc.org/ upcoming-events/Kansas and look for Forage and Grassland Council Winter Forage Conference.

Southwest Kansas

Dairy alfalfa, grinding alfalfa steady, ground and delivered steady, movement slow. Alfalfa: horse, premium small squares 260.00-280.00 with an instance at 315.00. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Stock or Dry Cow 180.00-190.00. Grinding alfalfa 175.00-190.00. Ground and delivered locally to feed lots and dairies, 200.00-210.00; Grass Hay: Bluestem, 3x4's and 4x4's 85.00-95.00, large rounds 75.00/bale; Brome, none reported; Sudan: none reported; Wheat: large straw rounds 60.00-75.00. The week of 11/14-11/20, 8,301T of grinding alfalfa and 300T of dairy alfalfa was reported bought/sold.

South Central Kansas

Dairy alfalfa, alfalfa pellets, grinding alfalfa steady, ground/delivered steady to 5.00 lower, movement slow. Alfalfa: horse, small squares 255.00-275.00. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Good, Stock cow, 170.00-180.00. Fair/good grinding alfalfa 160.00-170.00 delivered. Ground and delivered 185.00-195.00. Alfalfa pellets:

Roll of Victory winners awarded at National Angus Convention and Trade Show

The Angus breed had many reasons to celebrate legendary progress at the 2021 National Convention and Trade Show, and show ring accomplishments were no exception. The Roll of Victory (ROV) Show Heifer of the Year, ROV Show Bull of the Year and ROV Breeder of the Year were named at the Awards Dinner held at the National Angus Convention and Trade Show on Nov. 7 in Fort Worth, Texas. Angus cattle have a tradition of excellence in the show ring. This history continues in show rings around the country each year. The American Angus Association® offers the ROV Show Program to recognize individual show-winning animals, sires and dams whose progenv excel in the

ate champion heifer at the inaugural Cattlemen's Congress and champion intermediate heifer at the Dixie National.

The ROV Show Bull of the Year was Silveiras Forbes 8088, owned by Chris and Sharee Sankey, Council Grove; Silveira Bros., Madera, Calif.; and Rockin S Ranch Inc., Riverdale, Calif. Silveiras Forbes 8088 was named Grand Champion Bull at the 2021 Western National Angus Futurity and Atlantic National Angus Show. He was also Supreme Champion Open Angus Animal at Atlantic National Angus Show, Grand Champion Bull at Cattlemen's Congress and Grand Champion Bull at the 2020 Kansas State Fair.

Recognized with top honors as the ROV Breed
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 Sun cured 15 pct protein 225.00-235.00, 17 pct protein
 240.00-250.00, Dehydrated 17 pct 310.00-315.00. Grass Hay:

 Bluestem, large rounds 85.00-95.00, large squares 100.00 110.00. Brome: large round 100.00-105.00, large squares 100.00

 110.00-120.00. Oat hay, good large rounds 120.00-125.00, good 3x4 squares 130.00-135.00. Sudan: large rounds 90.00 100.00. The week of 11/14-11/20, 6,016T of grinding alfalfa and 507T of dairy alfalfa was reported bought/sold.

Southeast Kansas

Dairy alfalfa, grinding alfalfa steady, grass hay steady; movement slow. Alfalfa: horse or goat, 250.00-260.00. Dairy 1.00-1.05/point RFV. Stock cow 160.00-170.00. Fair/ Good grinding alfalfa, none reported. Ground and delivered, none reported; Grass hay: Bluestem, small squares 120.00-130.00, good 3x3 squares 115.00-125.00, good, 3x4 and 4x4 squares 100.00-120.00, large rounds 70.00-85.00. Brome, good, small squares none reported, 3x4 to 4x4 squares 115.00-125.00, large rounds 85.00-95.00. Wheat Straw: 3x4 and 4x4 squares 60.00-80.00. The week of 11/14-11/20, 942T of grass hay was reported bought/sold.

Northwest Kansas

Dairy alfalfa, ground/delivered steady, grinding alfalfa steady, movement slow. Alfalfa: Horse or goat, small squares 300.00-400.00 delivered. Dairy, Premium/ Supreme 1.05-1.10/point RFV. Stock cow, fair/good 175.00-185.00. Fair/good grinding alfalfa, 160.00-170.00. Oat hay, 3x3 square 135.00-145.00; Sudan, none reported. Wheat straw, large squares 75.00-85.00.

North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, grass hay steady, movement slow. Alfalfa: horse, premium small squares, 9.00-10.00/bale. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Stock Cow, 160.00-170.00. Fair/good, grinding alfalfa 130.00-140.00; Ground and delivered 155.00-165.00. Grass hay: Bluestem, small squares 6.50-7.00/bale, large 3x4 to 4x4 squares, 130.00-140.00 delivered, good, large rounds 90.00-100.00, Brome, small squares 7.25-8.00/bale, 3x4 to 4x4 squares 125.00-135.00, large rounds 90.00.00-105.00; Wheat Straw: Small squares 5.00-6.00/ bale, Large 3x4 to 4x4 squares 85.00-100.000. Certified weed free grass mulch large rounds, 80.00-90.00. The week of 11/14-11/20, 1,570T of grinding alfalfa and 627T of dairy alfalfa was reported bought/sold.

 $\ast\ast$ Prices above reflect the average price. There could be prices higher and lower than those published.

***Prices are dollars per ton and FOB unless otherwise noted. Dairy alfalfa prices are for mid and large squares unless otherwise noted. Horse hay is in small squares unless otherwise noted. Prices are from the most recent sales.

*CWF Certified Weed Free

*RFV calculated using the Wis/Minn formula.

**TDN calculated using the Western formula. Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%). Guidelines are to be used with visual appearance and intent of sale (usage).

Source: Kansas Department of Agriculture - Manhattan, Kansas, Kim Nettleton 785-564-6709.

St. James 2021 CONSIGNMENT AUCTION

SATURDAY, DECEMBER 4, 2021 - 9:30 AM St. James Hall, 5th & Iowa St., WETMORE, KANSAS Breakfast 7:00-10:30, Lunch till end of sale by St. James Altar Society

PARTIAL LISTING: Trucks, Autos, ATV Trailers: 1973 GMC 6500, tandem axle, tag lift, 22' bed, dual hoist, 366 motor, 5/2 speed; 1994 GMC 3500 dually, 4x4, 454, 5-spd, flatbed, 160K, reconditioned trans., transfer case, clutch, needs motor work; 1999 Chevy 3500 dually, 4-dr, 454, auto, 2WD, 156K; 2002 Chevy 1500 ext. cab, 5.3, auto, 4x4, 250K; 2003 Sterling semi-tractor, Cummings ISC, 10spd, tandems, 5th wheel, 256K; 2016 Polaris Ranger, 4x4, 6K mi, glass windshield (like new); 1999 Titan 7x20 stock trailer, rubber floor; 1987 Trailman 7x24' stock trailer, 14 ply tires, new floor; skid loader trailer, HD; rock trailer, belly dump, triple axle, 5th wheel. **Tractors, Combine:** 1938 JD "B" unstyled SN#54062 (parade ready); 1957 JD 620, SN#6204932 wide front, 3pt, baler; MF 9120 cutter bar (850 MF); 3-pt bale mover; JD 2-16" pull-type plow, trip style; JD 2-16 pull-type plow, hyd. lift; skid loader mount bale spear; 20.8x38" bolt on duals; 20.8x38" clamp on duals; Mower King 5' rotary tiller skid loader mount, like new; skid loader mount rotary shredder 5'; Rhino 7' rotary cutter, bad gearbox; 3pt sprayer, 200 gal. tank, 27' boom, roller pump.

Lawn Equip:: Husqvarna riding mower w/48" deck; Poulan-Pro self-propelled walk behind mower; JD X320 riding mower w/48" deck; Craftsman riding mower (less deck).

Livestock Equip.: Squeeze chute; 10 free standing panels; Luco cake feeder, 2014 model, 1200#, hyd, drive, (new); livestock tub; Powder River squeeze chute; bale feeder; mineral feeders. Misc.: Gas powered jack ham-

ual and their health care provider, not their employer or the Biden administration.

• Religious freedom is protected by providing a broad exemption for sincerely held religious beliefs. HB 2001 bars an employer from asking invasive questions about an individual's religious background and the nature of their beliefs. All that if they lose their job because of a violation of this bill. If an employee has a valid exemption and is unlawfully terminated, they should not lose their livelihood while their complaint is being investigated by the Department of Labor. If employers follow the law and grant exemptions this provision should rarely come into play.

Vietnam to eliminate U.S. wheat import tariff

A recent announcement that Vietnam's government will eliminate a 3 percent tariff on U.S. wheat imports effective December 30, 2021, is welcome news to producers at home and their customers and wheat food processors in Vietnam.

As reported in August 2021, U.S. Wheat Associates (USW) and the National Association of Wheat Growers (NAWG) appreciate the efforts by the Biden administration, USDA's Foreign Agricultural Service (FAS) and Vietnam's Ministry of Finance toward eliminating this tariff, which follows a reduction from 5 percent to 3 percent in July 2020.

Vietnam imported more than 500,000 metric tons of U.S. hard red spring, soft white, hard red winter, and soft red winter wheat valued at \$129 million in marketing year 2020/21, second in volume only to Australia. Vietnam imports an average of about 4 million metric tons of wheat per year.

"U.S. wheat exports to Vietnam's growing market are much slower so far this year because of short supplies and rising prices, so eliminating this tariff is very important for growers like me," said Darren Padget, USW chairman and a soft white wheat grower from Grass Valley, Ore.

"With about half of the wheat we produce available for export each year, we depend on increasing access to markets like Vietnam," said Dave Milligan, NAWG president and a wheat grower from Cass City, Mich. "Here at home, NAWG will continue advocating for trade policies that work toward positive opportunities for wheat growers and their customers."

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PREVIEW/PICKUP LOCATION: 401 Maple,

Cottonwood Falls, KS 66845 (old Elementary School Building)

PREVIEW: Monday, December 6, 2021 from 4-5 PM

400+ Lots: POTTERY: (Roseville, Van Briggle, Weller, Hull, BowKnot

Niloak, McCoy); GLASSWARE: (Fiesta, Candlewick, Carnival, Depression, Frankoma, FireKing, Jadeite, Pyrex, China, Westinghouse, Clear, Amber, Emerald); ANTIQUE: (Crocks, Buttons, Copperware,

Jars, Stereoscope, Coca-Cola Tray, Cookie Jar, Soda Bottles, Post cards, Globe, Mixing Bowls, Quilts, Wood Shelves, Lighters, Jewelry

Records, Skeleton Keys, Bells, Light Shades, Photos); TOYS: (Casi

Bank, Door Stop, Golden Books, Tonkas); CHRISTMAS DEC (Blow molds, Ornaments, Misc Dec) More Misc Items.

This a partial listing, see website for full listing, terms & photos at

GriffinRealEstateAuction.com

show ring, and the exhibitors themselves.

"We've spent the weekend celebrating Angus passion, innovation and achievement, and our ROV winners are a true testament to these priorities for our breeders and showmen," said Mark Mc-Cully, American Angus Association chief executive officer. "It's evident these cattle are incredibly deserving of this recognition, as are those who dedicated the time and effort to earn these awards."

The ROV season runs from June 1 through May 31. Points for these shows are accumulated on an annual basis.

The ROV Show Heifer of the Year was Seldom Rest Sandy 9080, owned by Suter Clark, Gretna, Va. The heifer received grand champion honors at the 2021 Western National Angus Futurity, stood reserve grand champion at the 2020 North American International Livestock Expo, reserve intermedi-

Office: 305 Broadway

Cottonwood Falls, KS

66845 Phone: 620-273-6421

MA -

Fax: 620-273-6425 **& Auction** Toll-Free: 866-273-6421 er of the Year was Express Ranches, Yukon, Okla. The operation won with 751 ROV points, a 227-point margin of victory. Express Ranches has won Breeder of the Year every year since 2012.

For more information about the Association's ROV program, visit www. angus.org.



PS, (nice); 1963 JD 4010 diesel, wide front w/fenders; JD 2032R compact utility tractor w/MFWD, 108 hrs., JD H130 loader, JD 62D mid-mount mower, JD 655 rotary tiller; 2009 JD 9670 combine, 4WD, E-4546/S-3265, 520/85dR42 Duals, 7.50/6.5R26, chopper, well maintained; BBK 30' header trailer, tandem axle w/brakes.

Farm Equip.: JD 40 manure spreader; JD 1560 drill, small grass seeder, markers; Gehl 65 MX grinder mixer; fertilizer spreader, 4 ton; JD silage rake, skid loader mount; Krause 3 pt. chisel, 11 shank; Crustbuster stainless steel field loader conveyor, 13 hp Honda, elec. start, 37'6"; JD 235 disc, 22'9", hyd. fold; IHC 490 disc, 22', hyd. fold; Glencoe Soil Saver 9 shanks; JD 3pt. rollover plow 4-16"; JD hay rake, pull-type; automatic mist blower; Kuhn SR10 rake, pull-type 10 wheel; Mayrath 30'x10' auger, PTO center drive; Landoll 1700 chisel 9 shanks; Vermeer 605 mer; 12 volt powered lift gate; Honda Blackmax 7500 watt generator; Gravely 27-ton gas powered wood splitter, pull-type, 2-stage pump; Powermate Pro Series 6750/8500 watt generator; Clipper seed cleaner; 4-new 235/85 R16 trailer tires; Trojan 20 ton hoist w/2-cylinders; electric wagon hoist; Mid-Equipment 15 ton hoist; shop lights; 2-10 hole egg nest; SS rabbit hutch; portable basketball goal; 3-spd manual transmission; hand scythe long handle; corn sheller; used 2x10 lumber; 14-2x6 truss rafters, 28'; scaffolding & flighting.

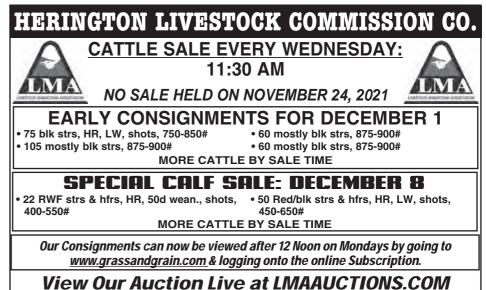
Hay: 100-square bales straw; 50-square bales brome; 25-round brome hay (net wrapped).

Household: Kitchen Aid 24 cu/ft refrigerator, French doors, bottom freezer, ice maker; 110 volt window air conditioner; small desk; entertainment center; organ; toy tractors; porcelain doll collection (new in box); hand made quilt; religious Christmas items; assortment of JD manuals; *Many more Items by Sale Date*

Vehicles, Equipment by 12:00. For information contact: Bill 785-547-5082 or Ron 785-207-0434

AUCTIONEERS: Craig Wischropp, Dan Harris, Dan Detres, Podney, Burdiak

Dan Deters, Rodney Burdiek TERMS: Cash or check day of sale. Bid by number. Nothing removed until settled for. Announcements sale day take precedence over all written material. Buyers responsible for own inspection of all sale items. Not responsible for accidents.



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mounts

'92 Case IH 5240 2wd w/ ldr '81 IH986 ROPS w/ ldr MISCELLANEOUS SENECA IMPL. CO. '99 Case IH 2388 combine Hwy. 36 West 4wd SENECA, KANSAS 17 Case IH 6140 combine, 792 eng., 557 sep. **Just In** '12 Case IH 3020 flex 30' WE ARE DEALERS FOR: '07 Case IH 2206 corn head BUSH HOG '04 Case IH 1020 flex head, 20' Kellv-Rvan-'09 Killbros UT125 header Kewanee - Westendorf trailer **C.E.** Attachments (2) Parker 2600 gravity wag-H&S ons Clark adjustable running gear JUST IN: w/ 600 gal. nurse tank 8', 10', 12', 14', 16' '11 Cimarron 8' rotary mower GATES; CORRAL PANELS '09 Case IH DC132 disc, Meyer Forage Boxes and MOCO Manure spreaders '08 Case IH RB564 rd. baler 10' corral panels '04 Hesston 946A round baler 12' corral panels New Idea 4160 side delivery 14' corral panels rake 16' corral panels Case IH 900 planter 6R30 **USED EQUIPMENT** Great Plains 2N-3010 no-till drill. 30' John Deere 720 diesel w/ 3pt, JD 450 HydroPush manure Case 830CK gas tractor spreader CIH 6500 Conser-til, 14' GB 660 loader JD 980 FC 23' Rhino 7' 3pt mower JD 714 disc chisel 9 shank GB 800 loader GB 900 Hi-master ldr New 3-point 3 wheel windrow Speeco 3pt post hole digger 18 Bush Hog MBX96 box Danhuser F8 posthole digger blade 8' 14 Cub Cadet LZ60 zero turn SKID LOADERS 145 hrs & ATTACHMENTS **NEW EQUIPMENT** New Gehl out front dump **RB465 Round Baler** buckets, higher reach RB565 premium round baler New tire chains for skid steers Several Bush Hog rotary New Danuser Intimidator tree mowers, tillers and finish & post puller mowers Pallet forks 48' Complete line Bush Hog zero New CEA tree & post puller turn mowers New Mensch, manure scrprs CASE III New Danuser and Lowe post hole diggers, skid loader AGRICULTURE New brush grapples ROSSVILLE New Bale Spears for big rnds **Truck & Tractor** ROSSVILLE, KANSAS CALL TODAY: 785-584-6195 785-336-2621

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Clay Center, Kansas is accepting applications for CDL drivers. Qualifications: Current CDL: Current medical card: Good driving record: Able to lift 50 lbs. Drivers will be home nightly. No over night stays. Competitive pay and benefits. Retirement & health insurance. Pre-employment drug screen required.

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Kansas Forage and Grassland Council and Kansas State University to host Winter Forage Conference December 8 in Newton The Kansas Forage and Winter Forage Conference

Grassland Council and Kansas State University will host their annual

from 9 a.m. to 3 p.m. on Wednesday, December 8 at the Harvey County 4-H

FARM & FERTILIZER EQUIPMENT AUCTION

TUESDAY, DECEMBER 14, 2021 * 10:00 AM LOCATION: 4.5 miles North of Leoti, KS on Highway 25 This will be a live & internet auction; bid on most major equipment on the internet at equipmentfacts.com

HARVESTING EQUIPMENT: 2008 Case IH 8120 combine, 3126 engine hrs., 2321 Sep. hrs.; 2003 Case IH 8010 AFX combine, duels, 2465 engine hrs., 1810 Sep. hrs.; 2008 Case IH 2162 draper head, pickup reel, 40 ft. w/transport; 2003 Case IH 2062 draper head, pickup reel 36 ft. w/transport; 2003 Clark 2415 corn head, 24 row, 15", w/ Mauer 40 ft. header trailer; 2012 JD S680 combine, duels, 2630 monitor, bin ext., 2868 engine hrs., 2138 Sep. hrs.; 2013 616C corn head, 16 row, 30" auto trac row sensors, intermeshing stalk rolls; 2014 Shelborne XCU 36 stripper head, 36 ft.; B&B 36 ft. header trailer; Orthman 1010 grain cart, tarp, 1,000 bushels; Jantz heavy duty combine trailer.

TRUCKS: 1996 Peterbilt semi-truck. Cat 3406 motor, 15 spd. transmission,; 1998 Peterbilt semi-truck, N14 Cummins motor, 13 spd. transmis-sion, 3,500 miles on crate motor; 1994 Peterbilt semi-truck, C-15 Cat motor, 13 spd. Trans.; 1998 Peterbilt semi-truck, 3406 Cat motor, 13 spd. trans., 60,000 miles on rebuild; 1980 Kenworth semi-truck, Cat 450 hp motor, w/3250-gal black poly water tank and pump, pup trailer w/3250 black poly water tank, shuttle deck, may split, 1976 GMC 6000 truck, 350 motor, 4x2 spd, trans., 14,000 original miles, 14 ft. bed & hoist, roll over tarp.

SPRAYERS & TANKS: 2013 GVM Prowler self-propelled sprayer, 1600 gal. SS tank, 100 ft. boom, 4x4, Cummins motor, guidance system; 1999 CVM Row Cat self-propelled sprayer, 1200 gal. SS tank, 90 ft. boom, 8.2 Cummins motor, 4x4, no guidance system, sprung front axle; 2009 CVM Prowler self-propelled sprayer, 1600 ga. SS tank, 90 ft. boom, Cummins motor, 4x4, guidance system, wiring harness fire; 2019 Triple cone bottom set down tanks, w/pump; 5) 2000 double cone bottom set down tank's w/pumps; 6) 1,000 gal. nurse trailers, some w pumps; 2) 1600 gal. nurse trailer w/ shuttle deck & pumps. TRAILERS: 2003 CBI end dump

semi-trailer, metal, silage racks, 33 2010 Polar semi-tanker trailer, SS, 9,000 gal., hydraulic pump; 2009 Wilson grain trailer, split axle, hydraulic open traps, 45 ft.; 2005

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BERNING AUCTION, INC. 812 West M, Leoti, KS 67861, 620-375-4130

Reinke flat deck hay trailer, alu-minum, 45 ft.; 2003 Timpte grain trailer, triple axel, 42 ft.; 2015 Hitchcock 40 ft. chain floor semi-trail-er, APL 40, racks, electric trap 2014 Hitchcock 36 ft. chain floor semi-trailer, APL 36, racks, electric

tarp; 2015 Hitchcock 36 ft. chair floor semi-trailer. APL 36, racks, no tarp; 1982 Fuel tanker trailer, 9,100 gal., not for road use; 2018 Starlight goose neck trailer, 24 ft. w/4 ft. dove tail; 16 ft. wood floor car trailer TRACTORS. SKID STEER. FORKLIFTS: 2010 Case IH MX130 tractor, 3720 hrs., MFW, 3 pt. pto, ps trans., joy stick, w/Koyker 545 scoop & grapple; 1987 Case IH 3394 trac

tor, MFW, 3 pt. pto., ps trans, 7,900 hrs.; 2017 JD 332D skid loader, cab, disel,1,180 hrs., bucket, forks, post hole digger, grapple bucket; 2013 JD 9360R tractor, 4-wheel drive, 18 spd. ps., pto, 6,755 hrs., 480/80R50 tires; 1986 Yale forklift, gas, duel front truck tires, 8,000 lbs.; 2005 Yale forklift, LP, duel front truck tires 8.000 lbs

LIVESTOCK EQUIPMENT: 2010 IHC feed truck, Max Force 9 die sel motor, automatic trans., w/Harsh 575 mixer feed box, scales: 2007 Travelong aluminum, gooseneck livestock trailer, 27 ft.; 2011 Trave long steel gooseneck stock trailer 24 ft.; 2011 Travelong bumper pull stock trailer, 18 ft. full top; 2007 Rawhide portable corral unit, elec tric over hydraulic, 12-20 ft. panels Haybuster tub grinder, HC1100, pto Hay tarps 20 x 50 (new); Holcomb feedlot scraper.

PICKUPS: 2002 Dodge 2500 pick up, 4x4, ext. cab, diesel, auto, w/ Dew Eze bale bed; 2001 Dodge Laramie 3500 pickup, 4x4, flat bed diesel, auto, w/Cattle 3C cake feed er; 2003 Hummer H2, AWD, automatic, 110,000 miles; 2005 Ford Diesel pickup, 4 door, auto tans.; 2008 Ford F-350 pickup, duels, die sel, auto trans., 65,000 miles, 4

FARM & OTHER ITEMS: 2014 Industrial America 160R grader blade, pull type, hydraulic; NVHL 240HD rear blade, 3 pt. hydraulic; Large roller packer; Land plane speed mover; Club car golf cart gas motor; 2011 Grizzley 4-wheeler; 2011 Yamaha Rhino side by side

ty is committed to making its services, activities and programs accessible to all participants. If you have special requirements due to a physical, vision, or hearing disability, contact Dale Helwig, Cherokee County Extension, 124 W. Country Rd, Columbus, KS 66725, phone 620-429-3849 or email dhelwig@ksu.edu.

"I put an implement on the free online ad site and got no calls. I put it in Grass & Grain and got eight calls the first couple of days... and sold it."

~ Russell Reichart, Holton ~

Building, Newton.

"We've got a great mix of speakers and forage-based topics that are relevant to Kansas cattlemen and forage growers," says Dale Helwig, Cherokee County Ag Agent.

Agricultural specialists will speak on a variety of topics such as alfalfa production, crabgrass production potential, ration supplementation with high grain prices, combating woody encroachment on native range, triticale's role in forages, bringing technology to forages, and a farmer panel discussing their progressive approaches and alternative forage sources that are helping them to extend the grazing season.

Featured speakers in-clude Justin Waggoner, KSU Southwest Extension specialist; Jerry Gano, Forage Genetics International; Dale Helwig, Agricultural Extension agent; Ben Elliott, Co-founder of Energy Curve Technology; Trent Page of Star Seed; and Doug Spencer, NRCS state grazing specialist.

"Our presenters are some of the leading experts in Kansas. It's always great to hear from growers and grazers on how they're making things work on their farm," said Roger Black, KSFGC President.

The event is free for current KSFGC members and \$45 for non-members (which includes a membership to KSFGC and lunch). To learn more, go to https://ksfgc.org/upcoming-events/. To join KSFGC, go to https://ksfgc. org/join-us/.

Please RSVP to Ryan Flaming, Agriculture Extension agent, (316) 284-6930 or flaming@ksu.edu.

The first 30 audience members through the door will get a free KSFGC cap. Kansas State Universi-



ITEMS FOR SALE -CIH 2208 corn head...... CALL Kubota M9960 MFWD tractor..CALL 11 Case IH 305 Magnum tractor, 4,400 hrs. \$92,000 10 Challenger MT665 C tractor, 3400 hrs \$90,000 12 JD 7215 R tractor, 4,400 2016 Bobcat S550 skid steer\$27,000 08 MacDonF070 draper.....\$32,000 10 CIH 3412 flex cornhead 12R30 \$24,000 CIH 2208 cornhead.....\$10,000 CIH 3408 cornhead.....\$13,500 Several CIH 1020 flexheads CALL JD 630 F flexhead......\$12,500 JD 930 F flexhead...... \$8,500 JD 608 C cornhead.....\$27,000 '09 JD 612C cornhead \$32,000 Combine header trailers 40', 36', 32', all adjustable ... CALL EZ Trail 500 grain cart .. \$5,000 J&M 1050 grain cart....\$25,000 JD 716 forage wagon ... \$6,500 H&S 370 manure spreader.....\$8,500 New Holland H8080 swather...\$75,000 08 JD 956 Moco Swather\$12,500 H&S HDX14 hayrake..\$11,000 H&S BF 12HC Rake \$4,500 JD 568 baler.....\$11,500 Jaylor 4405 mixer wagon\$10.500 Patz 500 TMR feed wagon\$13,500 Kent series V field cultivator 42'.....\$8,500



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By Taylor Jamison K-State Research and Extension news writer

Kansas 4-H youth development specialist Beth Hinshaw knows how important meaningful family time is during the holidays, and how it may be a challenge to come up with ideas on how to spend that precious time together.

That's one of the very reasons why the national 4-H program has published a holiday activity guide.

"(The Holiday Activity Guide) has great ways to spend quality time with people, and we can learn so much from our family when we see them at the holidays," Hinshaw said. "And to be able to have these learning experiences with them - that'll make a memory for us as well.'

The Holiday Guide, she

said, contains an array of fun activities, such as making ornaments, family story time, visual art projects, and many food recipes.

"One of the things I think about, in my own experience, is the things I learned in the kitchen, during the holidays from my grandmothers," Hinshaw said

Within the Holiday Guide is a "cookie book" -

holiday recipes to make together. One of Hinshaw's favorites is the no-bake cookies, a recipe from a Kansas 4-H member.

"In the holiday guide, there are several activities that are STEM and math-focused, but as you read through and think about it, they're fun as well." Hinshaw said. "That's one of the things we pride ourselves on in

listing more than 20 sweet 4-H -- to have those experiential, fun learning activities.

Food and STEM are both project areas 4-H'ers may already be involved in, and the activity guide includes an additional area important during the holidays: service.

"It shares how you might put together a winter coat drive for your community," Hinshaw said. "Or how you might

make fleece scarves by hand for the homeless."

To begin one of the many fun and educational projects offered by 4-H, go online to find the complete Holiday Activity Guide.

More information about opportunities available through Kansas 4-H is available online, or visit your local Extension office.

prep volunteers nes video series t ansas 4 9

A Kansas 4-H official says the state's largest youth organization has set the stage for another successful year with a series of videos aimed to train an army of volunteers.

Shane Potter, a 4-H youth development specialist, said the videos - stored online and free to view - are intended to "help keep youth engaged" in many of the approximately three dozen projects that youth participate in each year.

"When we put this video series together, we wanted it to serve as a starting point for those who volunteer for their local 4-H clubs," Potter said.

He added that the videos teach skills that volunteers can use when guiding youth through such areas as public speaking, STEM lessons, family and consumer sciences, animal sciences, service learning and more.

The videos were first offered in September and continue through the middle of October, but will be archived for viewing anytime.

"We offered the lessons virtually, so we were able to include experts from many states... Missouri, Michigan, Nebraska and all around Kansas," Potter said. "They were able to provide their particular expertise so that when volunteers go back to work with youth, they have the best content we could find to help them engage youth in their projects."

In Kansas, approximately 5,000 adults and 5,500 youth volunteer for 4-H programs, according to data from the Kansas 4-H vouth development office. In 2019, more than 17,000 Kansas youth were enrolled as club members and took part in at least one 4-H project.

find that 'spark," Potter said. "In the videos, we focused on looking at those activities that could help youth have a spark so that they fully engage in that content area.'

As an example. Potter noted a textiles lessons that incorporated the science involved in designing clothes.

"We had a speaker who wrote a national curriculum about how they're applying scientific principles into their everyday decisions in creating textiles," he said. "They were able to talk about the functional properties of textiles and the fabrics that they are using.

Those interested in volunteering for a local 4-H program are encouraged to visit the K-State Research and Extension office in their county. More information also is available on the website for the Kansas 4-H youth development program.

"This year, we are looking at how we can help youth Premier Select Sires scholarship opportunities total \$20,000 in 2022

Premier Select Sires will award up to \$20,000 to students within the Premier territory through the 2022 Premier Future Ag Leaders Scholarship Program. Two exemplary students will receive \$2,500 scholarships through either the Johnny Daniel Memorial Scholarship or the Wayne Dudley Scholarship. Several other students will receive scholarships of \$750-\$1,000 in value.

Scholarship application forms will be available beginning November 15, 2021 under the "News" tab of www.premierselectsires.com, by calling (570) 836-3168, or by emailing office@premierselect.com. Completed scholarship applications are due January 31, 2022 Eligible students in-

clude high school seniors through college seniors presently enrolled or planning to enroll in an

undergraduate agriculture-related major. The student or his/her parent or guardian must reside in the Premier membership area and must be an active Premier customer in good standing. Previous scholarship winners remain eligible during subsequent award years; however, a student can only receive a \$2.500 scholarship once in his/her school career.

The Premier Future Ag Leaders Scholarship Program provides financial support to eligible college undergraduates in agricultural majors. The program provides additional return to the cooperative's member-owners by supporting the next generation of young people desiring to study and work in the agriculture industry. The Premier Select Sires, Inc. board of directors has made a commitment to providing money to support this scholarship program on an ongoing annual basis.

Premier Select Sires is a farmer-owned cooperative that serves beef and dairy producers in its 23-state member area. Dedicated to providing

its members with all they need to achieve success, Premier provides:

Industry-leading genetics from the Select Sires, Accelerated Genetics, and GenerVations brands

Effective herd health and management products, as well as artificial insemination supplies

Reliable services and programs backed by years of success

Knowledgeable industry experts who are easily accessed for consultation, advice, and on-farm assistance

sister cooperatives across the United States, Premier owns and controls Select Sires Inc., the world's most recognized name in bovine genetics.



NCGA: proposed rule on Waters of the U.S. a step back, confusing for farmers

The Environmental Protection Agency and the Department of Army released a proposed rule to re-establish the pre-2015 definition of "Waters of the United States" (WOTUS). The proposed rule would remove the Navigable Waters Protection Rule, which was finalized in 2020 and provided long-overdue certainty and clarity for farmers affected by the scope of WOTUS jurisdiction

In response to this development, NCGA president Chris Edgington released the following statement:

"We are extremely disappointed that this administration is taking us backward by removing a rule that has provided certainty for farmers who are working to feed and power America."

"NCGA will continue to work with the agencies and advocate for a WOTUS definition that provides farmers clarity about their obligations under the Clean Water Act."

FARM EQUIPMENT AUCTION

SATURDAY, DECEMBER 11, 2021 * 10:00 AM LOCATION: 105 W Rd 200. From HEALY, KS 3.5 miles south to Rd 200 & 2.5 miles west. From Hwy. 96 on Bison Road 5 miles north and 1/2 mile west.



This will be a live auction with certain items selling live and on th internet at www.equipmentfacts.com

TRACTORS: 2001 JD 8310 tractor, mfw, duals, auto steer, 3pt., pto, #P0015755, quick 3pt., pto, #P0015755, quick hitch, 8,344 hrs., PS; 1988 JD 4650 tractor, duals, PS, 1988 JD ns., #P017343, 3 pt., pto w/JD 250 scoop & grapple, Joy stick; 1985 JD 4650 tractor, duals, PS, 3 pt. pto, #P010908, 7,252 hrs.; 1972 JD 4620 tractor, PS, duals 3 pt. pto, duals, 3 pt. pto. SPRAYERS: 2012 Apache

AS1020, self-propelled sprayer, 90' boom, 1000 poly tank, auto steer, 2415 hrs.; 3 pt. sprayer, 60' boom, 300 gal. tank; JB Skiles 1500 gal., & 400 gal., pull behind cart, crab steering, pump; 1000 gal. nurse trailer w/shuttle deck, Honda pump & motor. HARVESTING: 2006 Case IH

2388 combine, bin ext., 5018 engine hrs., overhaul 5 years ago, using some oil, #HAJ296213; Case IH 1020 flex head, 30'; 1993 JD 843 corn head, 8 row; 1983 JD 853A row head, 8 row; 1995 Shelborne CX84 stripper head, 32', needs work; A&L 650 grain cart; 3) shopbilt header trailers. **TRUCKS:** 1985 White Volvo

tandem truck, twin screw, 300 Cummins motor, 10 spd trans., 121,500 miles, 22' bed & hoist, roll over tarp; 2001 Freightliner truck, twin screw tandem, 60 Series Detroit motor, 10 spd auto shift, air ride, 20' bed & hoist, roll over tarp; 1979 C60 Chevy

truck, 366 motor, 45,152 miles, 4x2 spd., 15' bed & hoist, West-field hydraulic drill fill auger. FARM EQUIPMENT: 2001 Crustbuster all plant 4030-disc drill, 30', 10'', markers; Sunflower 6x5 sweep plow w/pickers; 2015 Great Plains turbo Max 3,000, vertical till, 30'; JD 1508 flex mower, 15' bat wing; 2006 JD MaxEmerge 2 XP planter, 1760, 12 row, markers; Bison 3 pt. rear blade, 8', 6 way hydraulic; Blue Jet sprinkler trac closer; JD 2100 mulch till, 7 shank sub soil bar; JD 520 disk drill, 3 pt.; JD 7300 MaxEmerge planter, 8 row, hydraulic drive; FK 4x7 sweep plow/Richardson pickers;

FK 3x7 sweep plow, no pickers Lilliston 8 row w/cultipacker; 2 IHC 150 hoe drills, w/transports Grass aireator bar, 3 pt., w/drag harrow; Triple tool bar, 20', 3 pt. w/roller packer; Lilliston rolling cultivator; JD 400 double ba rotary hoe; Orthman 9 shank ripper; Shopbilt 30' tool bar; Miller 16' disk; Crustbuster 30' springtooth; 1998 Rhino RC20 flail shredder, 3 pt.; Triple fert. Bar, 3 pt.; 20' tool bar w/markers Landplane 50'x10'; 2) Eversman dirt movers, 6 yard; 2) Hoeme chisel plows, 16'; Crustbuster 20' rotary hoe, pull type. OTHER FARM ITEMS: Westfield

WR60-41, 6"x40' auger, electric motor; 3 pt. bale mover; Tool bar equipment, shanks, shovel, sweeps; Pickup fuel tanks 110 gal.; 250 gal. fuel tank on stand; 1000-gal fuel tank 110-volt pump; Hutchinson 8"x60' auger pto; Pipe trailers; 2,400 ft of 8" pvc irrigation pipe; 18' car trailer; tractor weights scrap iron & old machinery; meta & metal rack; 2) Wyle tractor tanks, 250 gal. each, fits 4650; Chemical; Bish head adapter. SHOP ITEMS: Century AC-DC 250-amp welder; DeWalt chop our eit bubble. Creftmen aut saw; air bubble; Craftsman cut ting torch w/bottles; large vise on stand; welding table; Craftsman 21 drawer mechanics tool chest hand tools; pallet jack; Continental drill press, bench model; Con tinental hydraulic press; bench grinder on stand; hydraulic jacks parts & repairs; elec. hand tools gear pullers; pipe threaders; bol bins; parts & repairs; chains & boomers; Craftsman shop vac pressure washer; 20-volt ex-tension cords; ladders; *Lots of*

other shop items. MOTOR HOME, MOWERS & 4-WHEELER: 1995 Safari Trek 2430-T32 motor home, 25.5', 6.5 diesel GM motor; Polaris Sports-man 450 ATV, 4x4, 2816 miles, 12 volt sprayer; Suzuki Key Quad ATV, non-running; 2015 JD EZ-track mower, 60°, 24hp., zero turn, 244 hrs.; Toro golf course riding mower, front deck, 9', non-running.

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BERNING AUCTION, INC. 812 West M, Leoti, KS 67861, 620-375-4130 family member to complete this Mad Lib with you!

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Ask them for each type of word specified, fill them out in order, and reveal your funny wnter story!!



Nativity Sudoku: Fill in the missing letters within each mini-grid so that the specified word appears once in each grid, column, and row.

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Grass & Grain, November 30, 2021 Page 20 Understanding Carbon Credit Programs presentation to be held December 14

By David G. Hallauer, District Extension agent, crops and soils/ horticulture

At the 2021 K-State Risk and Profit Conference, KSU graduate student in agricultural economics Micah Cameron-Harp delivered a presentation on research surrounding carbon credit markets. In it, she compared the

differences between carbon markets domestically paying around \$15 per carbon removal ton (with little fluctuation) versus European Union market futures sitting at around \$55 per carbon removal ton - with current rates at almost \$70/ton. Could U.S. producers have that same opportunity - and what does that 'opportu-

nity' entail? As an increasing number of acres are enrolled in carbon credit programs, questions continue to arise about their value and requirements. To help sort your carbon credit program questions, the Meadowlark Extension District and Atchison County Extension Council are collaborating to

offer Understanding Carbon Credit Programs on Tuesday, December 14th at the Knights of Columbus Hall in Nortonville. Dr. Peter Tomlinson, KSU Extension environmental quality specialist will discuss the ins and outs of carbon credits, including programs available to producers that might help them capture a financial reward for carbon sequestration efforts.

Coffee and light refreshments will be available at 9:30 with Dr. Tomlinson's presentation starting at 9:45. We'll conclude shortly after 11:00 to allow you to move on with your day.

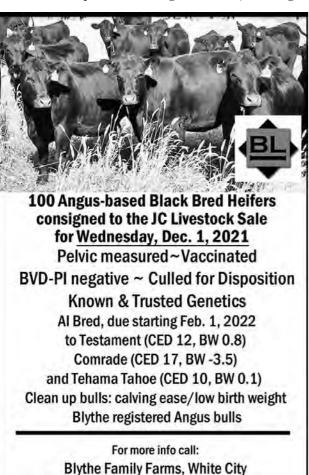
To help with refreshments and seating, RSVP by Friday, December 10th

to the Atchison County Extension Office at (913) 833-5450 (e-mail to cladd@ ksu.edu) or Oskaloosa Office of the Meadowlark Extension District at (785) 863-2212 (e-mail to dhallaue@ksu.edu). In case of inclement weather, contact either office the morning of the meeting for details.

ps to reduce the uring Izel current high prices By James Coover, crop ther way, the fertilizer bill There are a few dif

production agent, Wildcat **Extension District**

Natural gas prices, trade tariffs, supply and production issues - there are a lot of reasons we've been given for the current fertilizer prices. Eiis going to be rough this year. Dr. Bruno Pedreira, agronomy specialist with K-State Extension, says, "The golden rule for 2022 will follow the four rights; right fertilizer, right time, right location, and right



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placement." There are a number of things that farmers can do to help reduce the fertilizer bill, at least in the short term.

Increasing nitrogen use efficiency

While nitrogen use efficiency is a calculation, effectively it means getting the most out of a nitrogen application and reducing losses to the environment. First and foremost, this means reducing over-application and making sure unit of additional N is getting a cost-effective yield response. In the long-term nitrogen and other fertilizers can be reduced using management zones, variable rate applications, grid sampling, and yield data.

In the short-term, being realistic about yield goals could mean applying less N in some fields. Pedreira says that "This is the kind of year to go field by field." Even in normal years we apply fertilizer not based on maximum yield but maximum profit. In years of extreme fertilizer prices, the breakeven point of cost per unit of fertilizer to profit from the additional yield for that unit, is going to be reduced.

Nitrogen losses from denitrification can be as high as 40% in some years. Denitrification losses can be limited by applying smaller amounts pre-plant and top dressing the rest when the corn or wheat needs it. Using nitrification inhibitors can also be valuable in decreasing

denitrification losses. Nitrogen losses from volatilization of urea can be reduced with timing of application. Volatilization is greater in warmer weather with dewy mornings (as the urea slightly dissolves first before volatilization) with losses as high as 20%. Ideally, any method of incorporation or application shortly before rain over a quarter of an inch, will move the urea into the soil where it will be protected from volatilization.

Nitrogen via a cover crop can add substantial nitrogen credits. Full stands of legume cover crops like clovers and vetch can provide 75 to 150 lbs of N per acre. Even mixed stands of grasses and legumes have N credits of 50 to 100 lbs per acre.

For soybeans, Pedreira states that "Inoculation of soybeans is a cheap way to insure nodulation and to increase root reach for soil nutrients." Of course, soybeans also give a 20 to 40 lb N credit to next year's corn crop.

Banding/In-furrow fertilizer

Fertilizer efficiency is more than just rate, placement is a major considerations. Immobile nutrients like phosphorus, potassium, and zinc will become fixed within the soil and banding can create a zone of plant available nutrients. This can especially important in acidic or low fertility soils. Nutrient fixation can be higher in our heavy clay soils as well.

ferent options and terms when it comes to banding fertilizer. Starter fertilizer is placed near the seed but not directly against it. This is common in early corn or late planted wheat to provide an early nitrogen and phosphorus boost in cold soils. While corn has a greater response to starter fertilizer, the method of banding P and K can have a response in soybeans too. In-furrow fertilizer is placed directly with the seed but has limit of 8 lbs of N and K combined in 30-inch corn rows due to salting effects. Some research has shown that even small amount of urea in-furrow can reduce germination. In-furrow is not recommended for sovbeans because of sensitivity to salt. Research has shown that smaller banded fertilizer applications can have similar yields as larger broadcasted applications. There are some limits and it requires equipment with those capabilities, but banding can be a good way to get through a high fertilizer cost year in nutrient deficient soils.

Using the "bank"

Immobile nutrients like phosphorus, potassium and zinc are stored within the soil complex from year to year. "Next year it will be even more important to pull soil samples. The cost of the soil test is the same. The cost of fertilizer is two to three times more expensive" states Pedreira. "This won't be a year to blindly apply a set rate." Many fields in southeast Kansas have a background of high P and K because of past fertilizer applications. Grid-sampling or management zone sampling become much more cost-effective. With high fertilizer prices eating into profit margins, this will not be a year to 'build' P and K levels, but apply cost effective and often minimal amounts.

If you have any questions about fertilizer rates, soil fertility, or analyzing soil reports, please give your local county Extension office a call. We also have soil probes available (which is the only accurate way to take a soil test). You can reach me in the Girard office of the Wildcat Extension District at 620-724-8233.

Weed management practices changing for producers

By Shelby Varner, K-State Research and

Extension news A Kansas State University weed management specialist says increased prices and decreased availability of herbicides may force farmers into finding alternative ways of managing weeds in their fields.

"Producers have got some tough decisions to make this winter as they think about how they're going to manage things coming into the spring," said K-State's Sarah Lanused are effective. They include:

Check equipment every day before spraying, including nozzles.

Adjust the speed of the vehicle you are driving while spraying. "When you drop the driving speed, you're allowing more of your herbicide to hit the intended target," Lancaster said.

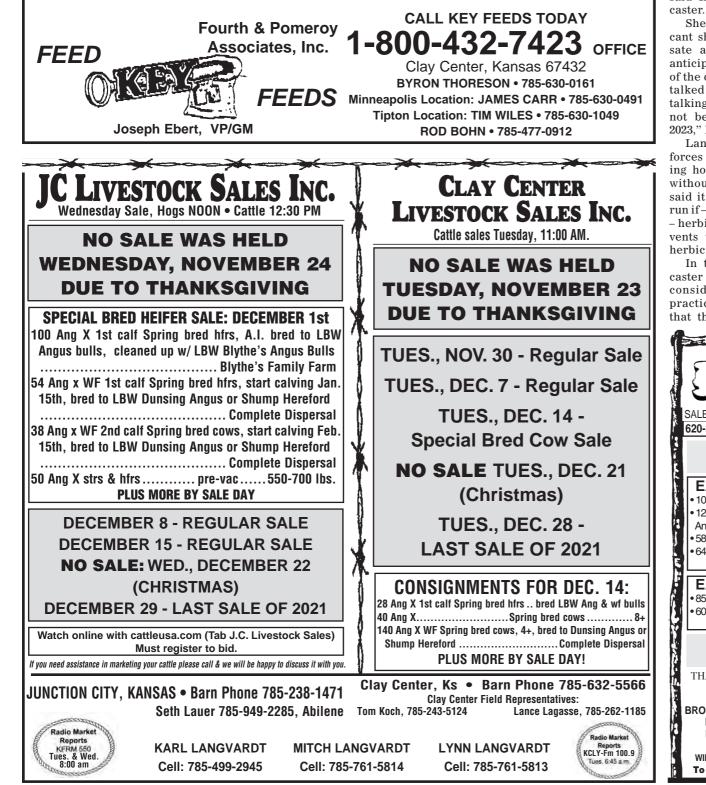
Add water to increase the spray volume of the herbicide.

"As we think about ways to take the pressure off the post-emergence products. having a solid pre-emergence herbicide program is important," Lancaster said. "That includes multiple effective modes of action, especially for things like pigweeds, but also for other weeds that have kind of slipped through the cracks the last few years." In addition, Lancaster said optimizing planting dates, optimizing seeding rates, seeding depth, and fertility may help give the crop a competitive edge over weeds. Non-chemical weed management practices - such as weed electrocution, a method in which weeds are shocked with thousands of volts of electricity – may also be worth considering, she said.

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calf over creep feed costs. Delivery in bulk or bags is available. Contact your local Key Feeds representative.





She added that "significant shortages" of glyphosate and glufosinate are anticipated in 2022. "Some of the distributors that I've talked with actually are talking about the situation not being cleared up by 2023," Lancaster said.

Lancaster said those forces will require changing how business is done without herbicides. She said it may be a good test run if-years down the road - herbicide resistance prevents the post-emergence herbicides from working.

In the meantime, Lancaster urges producers to consider implementing practices to make sure that the herbicides being



Grazing fescue requires close monitoring

By Lisa Moser

We all have that one friend who eats the spiciest food and doesn't seem bothered by it, while the rest of the people at the table break out into a sweat from the heat of the food. That friend has adapted well to the spice and they handle it with ease.

Much like humans, beef cattle can adapt over time to their grazing sources with proper management, but there are certain forages that can present issues for cattle. according to experts at Kansas State University's Beef Cattle Institute.

Talking on a recent Cattle Chat podcast, veterinarians Bob Larson and Brad White talked with beef cattle nutritionist Phillip Lancaster about the risks to cattle when grazing fescue.

"Fescue is a cool-season grass that is drought-tolerant and a good grazing option for cattle that are well-adapted, but it can be infected with an endophyte that can make cattle sick when they are first introduced to it," White said. An endophyte is a fungus that lives within the plant.

He added that the endophyte causes changes in the blood flow to the peripheries of the animal, such as their hooves, tails and ears. So, in the summer cattle that aren't well adapted to fescue have trouble cooling, and in the winter, they are more prone to frostbite, according to White.

"Cattle that are experiencing fescue toxicity will often have rough appearing hair coats that don't shed off, and they will not gain weight well," Larson said.

Lancaster said that cattle raised on fescue pastures tend to handle the toxin better than those who have never been exposed to it.

'Over time we've selected animals in those environments that are more naturally adapted and tolerant of the endophyte toxin so the challenge is not as great for them," he said

If producers notice cattle experiencing toxicity from fescue, the experts agree the only option is to remove them from the pasture.

"There is no treatment for the vasoconstriction that is leading to the cattle's poor performance and so the only choice is to get them off the fescue and provide some other forage or feed that will allow them to clear the toxin," Lancaster said, adding it typically takes six to eight weeks to fully clear their system.

To hear more of this discussion, listen to the Cattle Chat podcast online.

National Corn Growers Association forges new partnership with **Pheasants Forever and Quail Forever**

The National Corn Growers Association (NCGA) is proud to announce their partnership—funded by NCGA's Production Technology Access Action Team (PTAAT)—with Pheasants Forever and Quail Forever. This new collaboration will focus on increasing pollinator and wildlife habitat in corn-producing states. Initially, the partnership will focus on corn producers in Iowa, Illinois, Indiana and Ohio, with room for expansion down the road.

"Pollinator health is a leading sustainability issue in 21st-century agriculture," said Ohio grower and PTAAT Vice Chair Patty Mann. "As public interest in pollinator health continues to increase, stakeholders in this discussion – our members and producers nationwide have a critical role to play for implementation. By partnering with Pheasants Forever and Quail Forev-

S.T. 12:00 noon

er, NCGA can assist growers with profitability and sustainability measures on their farms for win-win scenarios.'

Pollinators are essential to the health of upland bird habitat and supporting the broader ecosystem across corn-growing areas, which in turn, also supports the long-term prosperity of corn growers. When pollinator habitat is made a priority, farmers often also see soil and water improvements in developed areas of their property.

"NCGA looks forward to building this partnership to support long-term pollinator health," said Mann.

Pollinating insects are an essential component in global food production. Approximately one-third of all food and beverage products need pollination, yet many species of native pollinators and domesticated honeybees are in decline. Habitat that provides a diverse mixture of

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native flowering plants of different colors, shapes and sizes is what's needed to support the life cycle of many pollinator species.

"Not only is pollinator habitat good for the bees, butterflies and beetles, but it's also excellent brood-rearing habitat for pheasants, quail and grassland songbirds," said Chris Kallis, the director of corporate partnerships at Pheasants Forever and Quail Forever. "Pollinator habitat attracts soft-bodied insects that pheasant chicks and other ground-nesting chicks rely on for survival during the first six to eight weeks of life. Through this new partnership with the NCGA, we can simultaneously support pollinators, pheasant broods and an increased bottom line for corn pro-

New publication summarizes potential for African swine fever virus to spread through feed Eight years of extensive the African swine fever virus in feed ingredients research, including work subjected to transoceanic shipment conditions, the

at Kansas State University, has led to a disquieting scenario for swine producers: Feed and feed ingredients could potentially serve as means for the introduction and transmission of foreign animal diseases of swine.

Megan Niederwerder, assistant professor of diagnostic medicine and pathobiology in the College of Veterinary Medicine, recently published an overview on the significance of the collective feed research related to swine viruses and specifically to African swine fever virus. Risk and Mitigation of African Swine Fever Virus in Feed was published March 18 in the journal Animals. Research funding was provided by the National Pork Board.

"Since the 2013 introduction of porcine epidemic diarrhea virus into the United States, researchers have investigated the potential role of feed and feed ingredients for the transboundary spread of swine diseases," Niederwerder said. "Feed ingredients are commodities traded worldwide, and the U.S. imports thousands of metric tons each year from countries where circulating foreign animal diseases have been identified."

African swine fever, or ASF, is the most significant foreign animal disease threat to U.S. swine production, Niederwerder said. The primary goal of negative countries, such as the U.S., is to prevent ASF entry as there are no vaccines or treatments available.

"The recent introduction of ASF into historically negative countries over the last few years has heightened the risk for further spread." Niederwerder said. "Investigations in my laboratory have characterized the stability of



virus's transmissibility through the natural consumption of plant-based feed, and the mitigation potential of certain feed additives to inactivate African swine fever virus in feed.'

Niederwerder's latest review describes the current knowledge of feed as a risk for swine viruses and the opportunities for mitigating the risk to protect U.S. pork production and the global swine population from African swine fever and other foreign animal diseases.

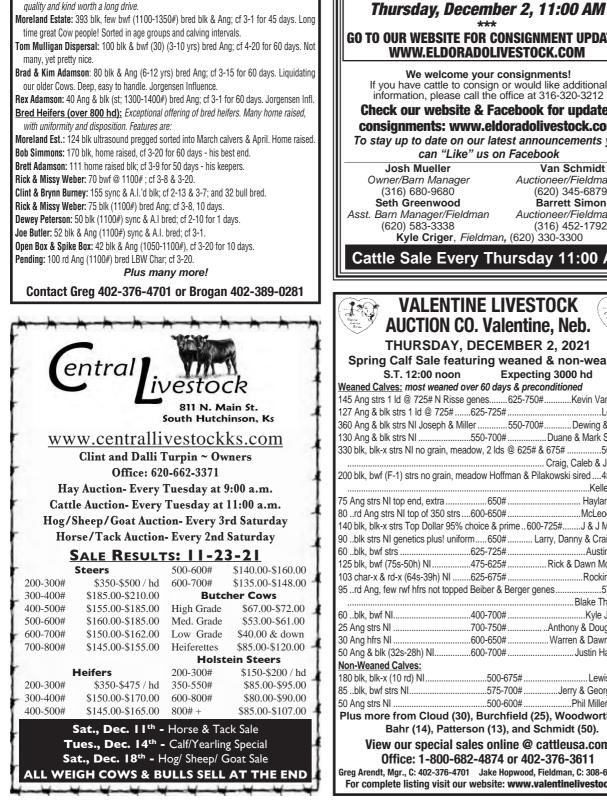
"Epidemiological evidence has linked contaminated feed with African swine fever virus field outbreaks in both Europe and Asia," Niederwerder said. "A rapidly expanding geographic distribution of African swine fever virus continues to increase the risk of U.S. incursion. With economic losses of African swine fever virus introduction into the U.S. swine herd estimated at more than \$15 billion due to production losses and market disruption, the importance of preventing entry cannot be overstated."

Niederwerder's article looks at potential ways to reduce African swine fever virus risk through feed biosecurity as well as through both physical and chemical mitigation protocols, such as heat treatment, storage time, and antimicrobial feed additives.

"It is critically important that feed mitigation strategies continue to be investigated and adopted to reduce the risk of ASFV or other foreign animal disease entry through this route," Niederwerder said.

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(316) 452-1792 ieldman, (620) 330-3300	12 bkRd	806@161.75	6 bwfrbf	1245@113	.00 6 bkbwf	f 924@144.75
	16 bkbwf	f 793@159.00	HE	EIFERS	23 blk	590@142.50
'y Thursday 11:00 AM 🏢	11 bkbwf	f 652@158.50	11 Ang	488@163	.25 8 blk	681@142.00
	12 Ang	578@156.00	15 Ang	597@159	.00 5 Chr	778@140.00
	10 Lim	833@155.75	9 bkRd	756@157	.00 14 Lim	532@134.25
NE LIVESTOCK	21 bkbwf	frbfX	16 bkRd	625@156	.75 21 Xbre	ed 863@132.50
		. 854@154.50	7 bkbwf	604@156	.25 7 Bfmst	r 456@125.00
D. Valentine, Neb. 🛛 🗮 🎽	16 bkbwf	f 700@154.25	63 mst b	k738@155	.00	
DECEMBER 2, 2021	Butche	r Cows: \$	25-\$77.00.	mostly \$	\$55-\$72.00;	\$2-\$3 lower
uring weaned & non-weaned		ery active.	. ,	,	,	
Expecting 3000 hd	Butche	er Bulls: \$6	4-\$95.00, n	nostly \$8	30-\$87.00; st	eady and
ver 60 days & preconditioned	very a	active.				
genes	В	UTCHER C	ows	3 bkb	owf ·	1658@69.00
.625-725#Leo Goss	2 wf		155@77.00)		
er	1 bwf	18	845@73.00)	BUTCHER	BULLS
.550-700# Duane & Mark Sedlacek	1 blk	18	835@73.00	1 blk	Sim 2	1935@95.00
dow, 2 lds @ 625# & 675#500-675#	2 blk	1;	500@72.50	1 blk		1900@90.00
Craig, Caleb & Joy Miles	1 blk	16	640@71.50	1 Bfm	nstr 2	2110@87.00
adow Hoffman & Pilakowski sired450-600#	1 blk	1;	575@71.00	1 blk	2	2065@86.50
Keller Ranch	1 bwf	1;	535@70.00	1 blk	2	2055@86.00
.600-650#McLeod Ranch					S FOR [
choice & prime 600-725#J & J Mansfield m650# Larry, Danny & Craig O'Kief					weaned & d	bl. vac.
.625-725#					off the cow.	
.475-625#Rick & Dawn McFadden			s, 600-725#	, weane	d 45 days	& dbl. vac.,
.625-675#Rocking Arrow		open.				
Beiber & Berger genes		•	, 6-9 yrs o	ld, start	calving Jan	i. 1, bred to
Blake Thompson		us bulls.				
.400-700#Kyle Jackman	• 12 bl	k bwf Fall p	pairs, 5-6 y	rs old, ta	agged to ma	itch.
.700-750#Anthony & Doug Diebler						
.600-650# Warren & Dawn Dorsey			DNSIGN	MENT	'S FOR E)EC. 9
.600-700#Justin Hammond					old, bred to	
	Start	calving Fe	eb. 10, Con	nplete Di	ispersal. Nic	e cows.
500-675# Lewis Family		XX 7	• ,		1 '	
		we a	ppreciat	e your	business	!
		Ron	Ervin - (Jwpor	-Manage	r
son (13), and Schmidt (50).			me Phone			I
			lobile Cel			
les online @ cattleusa.com					Fieldman	
2-4874 or 402-376-3611						
Jake Hopwood, Fieldman, C: 308-627-4828 website: www.valentinelivestock.net	If you		obile Cel		d at call Ron	or Austin
WEDSILE. WWW.VAICHLINEHVESLUCK.HEL		u nave any		e looked		or Austin

Sale	Every	Th	ursda	y at	11:	30 a.n	n. Sharp
			e Us C				
						,	ad of cattle
	her. Unwe						ing \$4-\$10 in spots.
•	TEERS	Janot	60 bkbw			•	vfrbf
8 Ang	458@192.	50	13 bkRd				649@155.00
0	401@181.		22 bkbw				vf 805@154.25
0	573@169.		7 Lim				hr 602@154.00
	567@169.			958@ ⁻		6 blk	615@154.00
15 Ang	598@166.	00	8 bkbwf	1024@ <i>*</i>	47.00	10 blk	710@152.75
5 Ang	690@166.	00	43 Xbred	1885@ <i>*</i>	45.25	80 bkbv	vf 835@152.10
8 bkbwf	645@165.	00	7 Lim	790@^	45.00	27 bkbv	vf 886@151.25
8 mix	691@164.	00	7 bkRd	781@ <i>*</i>	42.00	6 blk	475@150.00
	ChrX		9 Bfmstr				vf 741@149.00
	. 726@163.		14 bwfrb	-			f 798@148.75
	806@161.		6 bwfrbf				f 924@144.75
	793@159.			EIFERS		23 blk	
	652@158.		11 Ang			8 blk	681@142.00
0	578@156. 833@155.		15 Ang 9 bkRd			5 Chr 14 Lim	778@140.00 532@134.25
	irbfX		16 bkRd				osz@134.25 ed 863@132.50
	. 854@154.		7 bkbwf				r 456@125.00
	700@154.		63 mst b				1 400@120.00
						¢72.00.	¢2 ¢2 lower
	ery active		\$ <i>11</i> .00,	mosti	y acc	-\$72.00;	\$2-\$3 lower
			95.00. r	nostlv	\$80-\$	87.00: st	eady and
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В	UTCHER	cov	vs	31	okbwf		1658@69.00
2 wf		1155	@77.00)			
1 bwf		1845	@73.00)	BU	TCHER	BULLS
1 blk		1835	@73.00) 11	olk Sin	ר ר	1935@95.00
2 blk		1500	@72.50		olk		1900@90.00
1 blk			@71.50		Bfmstr		2110@87.00
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•150 b •80 Re •65 b	olk bwf st ed blk str lk bwf hf	rs& s&h	hfrs, 50 Ifrs, 500)0-750 0-750#	#, wea , off ti	ned & d he cow.	DEC. 2 bl. vac. & dbl. vac.,
• 30 A		vs, 6-	9 yrs o	old, sta	art cal	ving Jar	n. 1, bred to
	us bulls. k bwf Fal	l pair	's, 5-6 y	rs old	, tagg	ed to ma	atch.
• 61 Aı	-	w bv	vf cows	s, 3-7 y	rs old	l, bred to	DEC. 9 o Ang bulls. æ cows.
	We	app	reciat	e yo	ur bu	isiness	!
	н	ome Mob stin	Phone ile Cel	e - 62 I 620- ISON	0-583 750-0 - Fie	123 Idman	

Page 22 Grass & Grain, November 30, 2021 ermented, used food can improve crop growth

There's a better end for used food than taking up space in landfills and contributing to global warming

UC Riverside scientists have discovered fermented food waste can boost bacteria that increase crop growth, making plants more resistant to pathogens and reducing carbon emissions from farming.

"Beneficial microbes increased dramatically when we added fermented food waste to plant growing systems," said UCR microbiologist Deborah Pagliaccia, who led the research. "When there are enough of these good bacteria, they produce antimicrobial compounds and metabolites that help plants grow better and faster'

Since the plants in this experiment were grown in a greenhouse, the benefits of the waste products were preserved within a closed watering system. The plant roots received a fresh dose of the treatment each time they were watered.

"This is one of the main points of this research," Pagliaccia said. "To create a sustainable cycle where we save water by recycling it in a closed irrigation system and at the same time add a product from food waste that helps the crops with each watering cycle."

These results were recently described in a paper published in the journal Frontiers in Sustainable Food Systems.

Food waste poses a serious threat to the planet. In the U.S. alone, as much as 50% of all food is thrown away. Most of this waste isn't recycled, but instead, takes up more than 20% of America's landfill volume.

This waste represents not only an economic loss but a significant waste of freshwater resources used to produce food, and a misuse of what could otherwise feed millions of low-income people who struggle with food security.

To help combat these issues, the UCR research team looked for alternative uses for food waste. They examined the byproducts from two kinds of waste that is readily available in Southern California: beer mash — a byproduct of beer production — and mixed food waste discarded by grocery stores.

Both types of waste were fermented by River Road Research and then added to the irrigation system watering citrus plants in a greenhouse. Within 24 hours, the average population of beneficial bacteria were two to three orders of magnitude greater than in plants that did not receive the treatments, and this trend continued each time the researchers added treatments.

Another finding of note is that neither the beer mash nor the mixed food waste products tested positive for Salmonella or other pathogenic bacteria, suggesting they would not introduce any harmful element to food crops.

"There is a pressing need to develop novel agricultural practices," said UCR plant pathologist and study co-author Georgios Vidalakis. "California's citrus, in particular, is facing historic challenges such as Huanglongbing bacterial disease and limited water availability," said Georgios Vidalakis, a UCR plant pathologist.

The paper's results show that using these two types of food waste byproducts in agriculture is beneficial and could complement the use synthetic chemical additives by farmers - in some cases relieving the use of such additives altogether. Crops would in turn become less expensive.

"We must transition from our linear 'takemake-consume-dispose economy to a circular one in which we use something and then find a new purpose for it. This process is critical to protecting our planet from constant depletion of natural resourc-

es and the threat of greenhouse gases," Pagliaccia said. "That is the story of this project."

Read more: https://news. ucr.edu/articles/2021/01/27/ turning-food-waste-backfood

Grass & Grain Weather Report Dec. 1, 2021 Seven Day Forecast In-Depth Local Forecast **Today's Local Outlook** Today we will see mostly sunny skies, high of 61°, humidity of 48%. West southwest WEDNESDAY W. 59/38 Blue Rapids 3 Mostly Sunny High: 61 Low: 40 wind 2 to 7 mph. The record high for today Washington 60/38 is 70° set in 1998. Expect clear skies tonight, overnight low of 40°. South 61/43 0 southwest wind 6 mph. The wind chill for tonight could reach 38°. THURSDAY 245 Mostly Sunny High: 66 Low: 46 Clay Center Last Week's Almanac 60/38 Hi/Lo 54/37 Normals 53/29 Date 11/19 0 Precip 0.00" Manhattan Wamego FRIDAY 11/20 59/30 53/28 0.00" Ogden 61/40 61/39 Cloudy High: 70 Low: 48 52/28 11/21 59/27 0.00 15 61/38 0 57/25 52/27 0.00' 51/27 11/23 74R/26 0.00' Junction City SATURDAY 3 62/40 11/24 62/38 51/27 0.00' 11/25 41/22 0.00' 50/26 Sunny High: 69 Low: 49 Abilene 61/38 Rainfall 0.00 Normal rainfall ... 0.31 Departure . Bull SUNDAY Average temp.... 43.6 Council Grove 61/41 Average normal. Departure 39.6° +4.0° High: 68 Low: 46 This Week's Sun & Moon Chart MONDAY Cloud Day Wednesday Sunrise 7:27 a.m Sunset 5:04 p.m Moonrise 4:04 a.m. High: 63 Low: 43 3:21 p.m Full 12/4 Thursday 7:28 a.m. 5:04 p.m. 5:20 a.m. 3:55 p.m. 12/18 Friday 7:29 a.m. 7:30 a.m. 4:36 p.m. 5:26 p.m. 5:03 p.m. 6:39 a.m TUESDAY 5:03 p.m. 7:58 a.m. Saturday 5:03 p.m. 5:03 p.m. 6:26 p.m. 7:36 p.m. Sunday 7:31 a.m. 9:13 a.m. Scattered Snov First NE AL Last 10 30 High: 62 Low: 40 7:31 a.m. 10:19 a.m. Monday 12/10 12/26 7:32 a.m. Tuesday 5:03 p.m. 11:12 a.m. 8:49 p.m. Local UV Index Weather History Growing Degree Days Dec. 1, 1989 - Heavy snow blanketed the mountains of New Mexico, with 12 inches reported at the Angel Fire Ski Date 11/19 Degree Days 11/23 Date 11/23 Degree Days 11/23 Basin. Strong northerly winds, ushering cold air into the 11/20 11/20 0 11/24 0 0-2 3 4 5 6 7 8 9 10 11+ north central United States, gusted to 55 mph at Devils 11/21 11/25 0-2: Low, 3-5: Moderate, 6-7: High 8-10: Very High, 11+: Extreme Expos Lake, N.D.

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We sold 1541 cattle November 23. There was good demand for steer & heifer calves that sold steady to 5.00 higher. 5 bik hris 685 © 149.50 1 bw fcow 2000 © 82.00 1 brang cow 1400 © 57.00 1 red cow © 950. \$8.00 higher. Feeder steers & heifer calves that sold steady to 5.00 higher. 3 bik hris 3 bik hris 585 © 149.50 1 bik cow 150 © 81.00 3 bik cows 1147 © 95.00 1 bw fcow 1243 © 54.00 1 bik cow 1400 © 57.00 1 red cow 182 bik/bw of sts 25 bik/bw of sts 25 bik/bw of sts 25 bik/bw of sts 25 bik/bw of sts 26 @ 21.00 6 bik/red sts 3 red of sta 1 bik bull 1900 @ 85.0 1 bik bull 1300 @ 85.0 1 bik bull 1500 @ 100.0 1 bik bull 1500 @ 100.0 1 bik bull 1500 @ 100.
57 blk/bwf strs 954 @ 165.35 3 bwf hfrs 490 @ 148.00 1 blk hfrt 1095 @ 86.00 2 blk cows 1228 @ 58.00 1228 @ 58.00 1320 @ 57.50 55 blk/bwf strs 856 @ 165.25 STOCKER & FEEDER HEIFERS 1 blk hfrt 1095 @ 86.00 2 blk cows 1320 @ 57.50 1320 @ 57.50 33 blk/bwf strs 849 @ 164.50 9 blk/bwf hfrs 556 @ 172.50 1 bwf cow 1525 @ 83.00 3 blk cows 1320 @ 57.50 • 130 blk strs & hfrs 450-500 lbs., weaned vaccinated 33 blk/bwf strs 878 @ 159.75 60 blk/bwf hfrs 569 @ 151.00 4 char hfrs 569 @ 151.00 LIVE ON DVAuctions.com • 136 Angus strs 725-775 lbs., home raised, long tir weaned, vaccinated.

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