

Kansas Hay Market Report

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Compared to the last report, demand remains slow, and trade activity is slow. Grinding alfalfa and ground and delivered alfalfa prices continue their softer trend, with dairy hay retaining its value. Grass hay prices this past week were mostly steady. According to the U.S. Drought Monitor for July 25th, it was a mostly dry week across the region with the most significant rains falling over eastern Colorado and western Kansas. All of western Kansas saw a full categorical improvement this past week. The categorical percent area for abnormally dry conditions (D0) remained at 16%, moderate drought (D1) decreased to near 24%, severe drought (D2) decreased to 18.5%, extreme drought (D3) decreased to near 25.5%, and exceptional drought (D4) decreased to near 4%.

Southwest Kansas

Dairy alfalfa steady; grinding alfalfa steady and ground and delivered 20.00 lower; movement slow. Alfalfa: Dairy, 1.40-1.50/point RFV. Good, Stock or Dry Cow 220.00-280.00. Grinding alfalfa, large rounds, new crop 250.00-260.00, large square 3x4's and 4x4's new crop 250.00-260.00. Ground and delivered locally to feed lots and dairies, new crop 280.00-290.00. Grass Hay: Bluestem: none reported. Oat hay, new crop 3x4's 160.00-170.00; Teff large rounds 180.00-185.00; Corn stalks, ground and delivered 180.00-195.00. The week of 7/23-7/29, 4,096T of grinding alfalfa and 25T of dairy alfalfa was reported

bought or sold.

South Central Kansas

Dairy alfalfa steady, grinding alfalfa 5.00-10.00 lower, ground and delivered and alfalfa pellets steady; and movement slow. Alfalfa: horse, small squares 325.00/ton. Dairy 1.40-1.50/point RFV. Good, Stock cow, 295.00-305.00. Fair/good grinding alfalfa, large rounds new crop 250.00-260.00 delivered, 3x4 and 4x4's new crop 250.00-260.00 delivered. Alfalfa ground and delivered 280.00-290.00; Alfalfa pellets: Sun cured 15 pct protein 320.00-335.00, 17 pct protein 340.00-350.00, Dehydrated 17 410.00-420.00. Grass hay: Bluestem, large rounds 130.00-140.00, large squares, new crop 150.00-160.00, small squares 9.50-10.50/bale; Brome, new crop large rounds 165.00-185.00, large square 3x4's and 4x4's 175.00-185.00, small squares 11.50-12.50/bale; Oat hay, large square 3x4's 195.00-205.00 delivered, oat straw, large rounds, 100.00 FOB. Mixed grass CRP large rounds, 115.00-125.00. Wheat straw, large rounds 125.00-135.00, small squares 5.00-6.00/bale. The week of 7/23-7/29, 6,722T of grinding alfalfa and 0T of dairy alfalfa was reported bought or sold.

Southeast Kansas

Dairy alfalfa and grinding alfalfa steady, grass hay mostly steady, movement slow. Alfalfa: horse or goat, none reported. Dairy 1.40-1.50/point RFV. Good, stock cow 270.00-280.00 delivered. Fair/good grinding alfalfa, large square 3x4 270.00-280.00; Grass hay: Bluestem, small squares, 175.00-180.00/ton, large square 3x4 175.00-180.00, large round 145.00-155.00. Brome, large square 180.00-190.00. The week of 7/23-7/29, 593T of grass hay was reported bought or sold.

Northwest Kansas

Dairy alfalfa steady, grinding alfalfa lower; movement slow. Alfalfa: Horse or goat, small squares none reported, 3x3 squares 300.00 new crop 1st cutting. Dairy, Pre-

mium/Supreme 1.40-1.50/point RFV. Stock cow, fair/good 295.00-300.00. Fair/good grinding alfalfa, large square 3x4's 250.00-255.00. Alfalfa ground and delivered 280.00-300.00.

North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, ground and delivered, grass steady; movement slow. Alfalfa: Dairy 1.40-1.50/point RFV; Horse hay, premium small squares, 13.00/bale, 3x4's 290.00-300.00; Stock Cow 3x4's 230.00-240.00; Fair/good, grinding alfalfa, large rounds none reported, large square 3x4's 240.00-255.00, Alfalfa ground and delivered 275.00-300.00; Grass hay: Bluestem, small squares new crop 8.00-9.00/bale, large 3x4 squares 150.00-160.00, good large rounds 140.00-180.00. Brome: small squares 10.00-11.00/bale, large rounds, 145.00-155.00, large square 3x4's 185.00-195.00. Wheat straw: large rounds 110.00-125.00, large squares 120.00-130.00. Corn stalks: large squares 100.00-125.00 FOB. The week of 7/23-7/29, 1,063T of grinding alfalfa and 262T of dairy alfalfa was reported bought or sold.

**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.

Genome sequencing breakthrough boosts corn breeding, connects to UNL legacy

University of Nebraska-Lincoln scientist James Schnable and international colleagues have created the first complete map of the corn genome, a landmark achievement that can enable major long-term advances in crop health, resilience and productivity.

"These research findings can help us build tools to predict which new corn varieties will perform well in particular environments, because we will be better able to identify the functions of individual genes in corn," said Schnable, Charles O. Gardner Professor of Agronomy.

Schnable and scientists from Iowa State University and China recently published their findings, titled "A Complete Telomere-to-Telomere Assembly of the Maize Genome," in the journal Nature Genetics. Their findings come one year after the complete mapping of the human genome.

Scientists have devoted much effort this century to identifying the full breadth of the corn genome, the set of genetic material that plays a critical role in determining a corn plant's physical characteristics, growth and health. Mapping the full breadth of corn's genetic

material has been a long-time challenge because the corn genome is large and immensely complex.

Technology used in the first draft of a corn genome, in 2009, identified a significant portion of corn's wide variety of genetic material. Still, many genetic regions were too complex to be deciphered by the technology available at that time. In all, more than 100,000 gaps in the genetic sequence remained to be filled.

"Our team drew on the latest technology, plus the particular expertise of the individual team members, and that finally made possible the mapping of the complete corn genome," Schnable said. In that first study, scientists had been able to map the centromeres — the complicated middle portions of chromosomes — for only two of corn's ten chromosomes, for example. Schnable and his colleagues were able to sequence all ten.

Schnable focused on regions of the corn genome containing genes called nearly identical paralogs: two or more genes located next to each other that

are so similar it was hard or impossible to tell them apart in previous genomic-mapping efforts. Genetic repetition takes on extraordinary complexity in the corn genome, resulting in large areas of chromosomal material packed together in ways that have defied individual identification and analysis.

With this new complete analysis of a much-studied corn line known as Mo17, Schnable said, "We're now able to resolve each of those individual genetic copies and start to do a better job of figuring out what individual genes do, rather than having all this combined into a mishmash where it's hard to figure out which gene is doing what."

The idea for this international project originated with Chinese researchers. Schnable has known Jinsheng Lai, a Chinese scientist and the paper's lead author, for more than a decade, going back to when Schnable was a postdoctoral researcher at the Chinese Academy of Agricultural Sciences. "When he was putting this project together, he reached out to me to participate because of my expertise in this field," Schnable said.

This new corn genome sequence has particular long-term value for developing improved corn vari-

eties by strengthening the scientific understanding of how differences in corn genetics affect varieties. "Rather than conducting selection, we will have the potential to design and engineer corn varieties to adapt to changing climates and grow in more nitrogen-limited conditions," Schnable said. "We can be more nimble in adapting corn to future challenges in terms of increasing yield and using less nitrogen and water."

New opportunities also are possible, long term, for creating higher-value secondary products, such as additional value for dried distillers grains from ethanol plants.

This groundbreaking research connects to the university's long history of cutting-edge study of corn genetics, Schnable noted. At the start of the 20th century, corn geneticist Rollins A. Emerson did pioneering work on the Nebraska faculty in rediscovering the laws of genetic inheritance established by Gregor Mendel.

Emerson later was a professor at Cornell University and in the 1920s was a mentor to doctoral student George Beadle, a Nebraska native and Husker alumnus who in 1958 received a Nobel Prize for his innovative work in genetics. The university's

Beadle Center, which facilitates research in biochemistry and biological sciences and includes the Center for Biotechnology, is named after him. Emerson also mentored another, later Nobel Prize recipient, Barbara McClintock, one of the 20th century's central figures in corn genetic science.

In the 1960s and '70s, Charles O. Gardner, the Husker scientist for whom Schnable's professorship is named, was a leader in quantitative genetics and plant breeding. Gardner, a Regents Professor of Agronomy, served as president of the Crop Science Society of America and "developed new breeding methodologies and trained a whole generation of students," Schnable said.

With the complete corn genome now sequenced, scientists will be able to proceed to important follow-up research to study and determine the function of individual genes that weren't identified in previous corn genomic research. "Many of these genes are likely involved in corn's ability to adapt to different environments and different stresses," Schnable said.

The university "is well positioned to study this," Schnable said, "because we have such a powerful research and Extension network and we're able to grow corn varieties all across the state. One of my research groups here at the university is testing hundreds of corn hybrids across the 400-mile breadth of Nebraska and into Iowa."

These Husker research initiatives, he said, "can help us build better models of how corn plants respond in different environments so we can develop those varieties that will thrive."

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DEADLINES:

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Fall Harvest - August 30th, before Noon

Fall Full of Bullz - September 6th, before Noon

G&G Farm Show Edition - October 25th, before Noon

Soil Health - November 1st, before Noon

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Kansas Profile

By Ron Wilson
Executive Director of
the Huck Boyd
Institute



Gary Moss, Water Conservation

By Ron Wilson, director of the Huck Boyd National Institute for Rural Development at Kansas State University

National Public Radio is broadcasting a news report about a new water conservation effort, but not from Washington D.C. or southern California. Part of it came from the cab of a combine in Kansas.

They were reporting on an innovative water conservation initiative being

led by northwest Kansas farmers.

Gary Moss is a fourth-generation farmer near Hoxie in Sheridan County, and a member of the advisory board for this water conservation project. Moss produces irrigated corn, soybeans and wheat and has a cow-calf herd.

Through the years, Moss has seen the significance of the Ogallala Aquifer, the huge underground water reservoir

that underlies the western High Plains. He's also seen groundwater levels fall.

In 1972, the State of Kansas created a state-level position of Chief Engineer and provided for groundwater management districts across the state. Over the decades, groundwater districts in some regions were seeing depletion of underground water.

Moss and other producers saw a need to get together in their part of northwest Kansas. "In 2008, we started holding meetings because the groundwater table was dropping pretty significantly," he said. The group worked on ways to use water more efficiently, such as re-nozzling sprinklers.

Under Governor Sam Brownback, the Kansas Department of Agriculture conducted a review of state water policy and recommended changes that were adopted by the Kansas Legislature in 2012. Among other things, the legislation allowed a producer to carry over water credits if water use was reduced.

This provided incentive to conserve, rather than the "use it or lose it" policy of the past. The legislation also authorized groundwater management districts to create what was called a Local Enhanced Management Area.

A LEMA helps groundwater management districts conserve water by setting goals and control measures for a specific locally defined region. "It gave us a tool to more effectively manage water conservation ourselves," Moss said.

Six high priority areas were identified for water conservation in Sheridan County. Ultimately, a LEMA - known as Sheridan Six - was proposed and approved by the Chief Engineer.

The Sheridan Six LEMA included 99 sections of land and 193 agricultural water wells. (The LEMA does not apply to residential water wells.) Moss served as chair of the Sheridan Six LEMA advisory board. It was the first LEMA adopted in the State of Kansas.

"In 2013, we adopted a five-year plan to reduce the amount of water pumped by 20% compared to the five-year average," Moss said.

In the first year of the plan, world grain prices rose significantly. "It was tough," Moss said. "Prices were high and some farmers were saying, 'Why do we have to cut back on water and production when prices are up?'" However, Sheridan Six stayed the course.

"By the end, we achieved nearly a 30% reduction in water use," Moss said. Research showed that producers inside the LEMA fared about as well financially as outside producers nearby.

"We want to do the right thing," Moss said. "We want to sustain our operations and pass it on to our kids."

Gary's sons, Jake and Jaxsen, attended K-State and came back to Sheridan County. Jake has a business in Hoxie and Jaxsen is farming with Gary. Each boy has a son of his

own, who would represent the sixth generation on the farm.

"I believe (the water policy) is working," Moss said.

The group's innovative and voluntary conservation strategy captured national attention. When the new policy was implemented, reporters from places such as the Wall Street Journal and National Public Radio made their way to Hoxie to cover the story. "One NPR reporter rode with me in the cab of my combine," Moss said.

That's exciting to hear in a rural community such as Hoxie, population 1,211 people. Now, that's rural.

It made national news when farmers in Kansas voluntarily adopted this plan to cutback and conserve their own water use. We commend Gary Moss and others involved with Sheridan Six for making a difference with this long-term strategy.

For water conservation and for Kansas, that is good news.

National Bison Association lobbies for American bison priorities

Summer congressional recess is starting, and things are heating up for bison-focused legislation.

"We have two leading issues for the bison industry, both important to the integrity of our national mammal. First, continued funding for vital Malignant Catarrhal Fever (MCF) vaccine research and vaccine development which is nearing completion. Second, passage of the Truth in Buffalo Labeling Act - distinguishing North American Bison from Water Buffalo," said Lydia Whitman, program manager for the National Bison Association.

The bison industry is grateful for the tireless work of the USDA Agriculture Research Service on the Malignant Catarrhal Fever (MCF) vaccination. Over 15 years of work on the vaccine has resulted in significant progress, with the proof-of-concept study currently under way. Due to the relatively small bison population of approximately 400,000, there is little incentive for commercial production of the vaccine for use in private, public, and tribal herds. As such, the National Bison Association is

requesting \$2 million in funding in the next Farm Bill to support the development, production, promotion, and distribution of the MCF vaccine. This funding amount was suggested by the leadership of USDA ARS who are working on finalizing this vaccine in the near term.

The NBA is also lobbying Congress to fix the ongoing regulatory issue of imported water buffalo being deceptively substituted for American bison and being marketed, in some instances, as "Wild Buffalo". Due to a regulatory loophole, water buffalo can be labeled simply as "buffalo" under current FDA policy, not "water buffalo," which is clearly deceiving the consumer into thinking that they're purchasing bison, or American buffalo, thereby threatening the food safety of bison meat.

"Owning a bison farm, I am aware of what it takes to raise bison and the many benefits that come with the production of bison products for West Virginia," Representative Carol Miller (R-WV-1) said. "When a product is labeled as 'buffalo,' consumers usually think that

product contains bison. "This bill makes absolutely certain that only bison products are labeled as buffalo and that any water buffalo products have their own specific label," she said. "This will help consumers make better choices and bolster the American bison industry."

The Truth in Buffalo Labeling Act of 2023 (H.3866), recently introduced in the House by Representatives Miller and Yadira Caraveo (D-CO-8); and A bill to provide clarification regarding the common or usual name for bison and compliance with section 403 of the Federal Food, Drug,

and Cosmetic Act, and for other purposes (S.258) introduced in the Senate by Senators John Hoeven (R-ND), and Michael Bennet (D-CO), and co-sponsored by Kevin Cramer (R-ND), Jon Tester (D-MT), Mike Braun (R-IN), Tina Smith (D-MN), Jacky Rosen (D-NV), John Thune (R-SD), Jerry Moran (R-KS), and Roger Marshall (R-KS) will provide this much-needed clarification of terms for bison. Both proposals are supported by the National Bison Association and National Sustainable Agriculture Coalition.

"The diverse membership of the National Bison

Association has helped create and shape this legislation, and now is the moment that we need support from members and other bison stakeholders to ensure this legislation becomes enacted," stated National Bison Association

executive director Jim Matheson. "We encourage NBA members to contact their representatives and push for hearings in the House and Senate on this bill, or better yet, inclusion in the next U.S. Farm Bill."

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Rep. Mann champions House-passed lesser prairie-chicken resolution

The U.S. House of Representatives has passed S.J.Res. 9, a resolution which disapproves of the Biden administration's rule that lists the Northern Distinct Population Segment of the lesser prairie-chicken as threatened and the Southern Distinct Population Segment as endangered under the Endangered Species Act. Rep. Mann introduced this resolution in the U.S. House of Representatives.

"My resolution pushes back on an unnecessary and burdensome regulation that threatens the livelihoods of people in rural America," said Mann. "I am proud of my colleagues for rejecting the Biden administration's rule that designates the lesser prairie-chicken as a threatened species in places like Kansas. Farmers, ranchers, and agricultural producers are the original conservationists, and the federal govern-

ment must get out of their way and let them do what they do best."

On December 22, 2022, in the 117th Congress, Mann introduced the bicameral joint resolution of disapproval under the Congressional Review Act (CRA) to strike down the listing of the lesser prairie-chicken.

On January 12, 2023, Mann led a group of his colleagues in requesting a delay of the final rule that would list the lesser

prairie-chicken under the Endangered Species Act. Following this letter, the U.S. Fish and Wildlife Service moved the effective date from January 24 to April 1, 2023.

On February 8, 2023, Mann led a group of his colleagues in reintroducing their joint resolution of disapproval under the Congressional Review Act to strike down the listing.

On April 18, 2023, the House Natural Resources Committee's Subcommittee on Water, Wildlife and Fisheries held a hearing concerning Mann's joint resolution of disapproval.

On April 28, 2023, the House Natural Resources Committee passed Mann's resolution out of committee.

On May 3, 2023, the U.S. Senate passed the resolution by a vote of 50-48.

The U.S. House of Representatives passed the resolution by a vote of 221-206.

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The U.S. House of Representatives passed the resolution by a vote of 221-206.

Helping dairy cows through extreme heat

Heat waves put extra stress on livestock. A University of Missouri Extension dairy specialist advises taking specific, on-going steps for dairy cows throughout heat waves.

Heat abatement

"Dairy cows become heat-stressed starting at 65 degrees Fahrenheit," said Scott Pook, state Extension specialist in veterinary medicine. "Fans should start running at that temperature and by 70 degrees, soakers should be started."

Place soakers and fans

in the holding area near the parlor, Pook said. "This is the spot on the farm that cows will experience the most heat stress during the day, and soakers and fans should be running at each milking, not just during the heat of the day."

Soaking the coat of the cow - with large drops of water rather than small, misty droplets - allows evaporative cooling to occur. Providing comfortable stalls will encourage cows to lie down more quickly and for longer pe-

riods, which will be a benefit during heat stress.

Nutrition needs in heat stress

The cow's dry matter intake tends to decrease during heat stress, said Pook. "The energy density of the ration is usually increased. But that increase can expose the cows to potential subacute ruminal acidosis (SARA). To help mitigate SARA, add sodium bicarbonate to help improve rumen health."

Sodium bicarbonate can be fed at 0.5%-1% of

the diet (1/4 to 1/2 pound per head per day).

Adding fat to the diet can help increase energy density without affecting SARA. However, added fat cannot exceed 2%-3% of the diet because it will depress milk fat production.

Reproduction management in heat stress

There is always a decrease in fertility during heat stress, and that means decreases in conception and pregnancy rates.

"The producer can use beef semen and/or embryos to try to improve this,"

Pook advises. "Because most embryo loss during heat stress occurs within the first several days after conception, using embryos that are seven days old can improve pregnancies. At Foremost Dairy we have used embryos and seen an increase in pregnancies."

Pook said synchronizing the cows and using timed AI can overcome decreased estrus expression during heat stress. "It is important to utilize proven synchronization protocols and be 100% compliant," Pook said.

Climate considerations for trees

By Lisa Moser, K-State Research and Extension news service

Known as tornado alley, Kansas has a reputation for weather events. Tracking weather data confirms that Kansas weather is continuing to change, which influences how animal and plant life adjust, said Kansas State University meteorologist Chip Redmond.

Temperature shifts

"We've always lived in an evolving climate and there is a gradual transition where some things

are going to phase out as we get warmer," Redmond said.

Redmond said for the past century, meteorologists have been measuring temperature and precipitation. Some patterns have been observed.

"Over the last 100 years, the average overnight low temperatures have increased as much as half of a degree per decade," Redmond said. "This atmosphere is holding more moisture and that influences how much the temperatures fall at night."

He also said the warmer ground temperatures impact what plants and animals can live in Kansas today compared to past years.

"Old World Bluestem and other invasive species are able to thrive in areas that used to be harshly colder and we are even seeing armadillos' habitat expanding in Kansas because their food availability is still there in the winter," Redmond said.

Caring for the trees

As Kansas experiences weather shifts, it is important to focus on some key things to help the trees thrive, said Kim Bomberger, Northeast District forester with the Kansas Forest Service.

"While we cannot control what the climate is going to do, we can manage species selection, how and where we plant, and how we care for the trees to help them be as healthy as possible," Bomberger said.

She recommends that

homeowners first evaluate the soil type in their landscape and match the tree species that are best suited for that type of soil. Soil samples can be submitted to local extension offices for analysis and recommendations.

"A lot of plants actually prefer a slightly acidic soil so we need to make sure we're planting the right trees that will tolerate the site's soil conditions," Bomberger said. "Alkaline soils are common in Kansas and require a specific selection of trees that will tolerate soils with a higher pH."

Her next tip is to look at the tree's water requirements, especially in years of drought.

"It takes three to five years for the roots to get established and that will mean watering the tree regularly when the rainfall is insufficient," Bomberger said. "Providing supplemental irrigation in times of insufficient rainfall helps established

trees withstand moisture extremes."

To make sure that the water is getting where it needs to go, Bomberger said she uses mulch to keep grass and weeds from the trunk of the tree.

"Good cultural care and the proper application of mulch will help our trees withstand the climate they are experiencing," Bomberger said.

In addition, Bomberger said that proper pruning is important to keep a tree's structure strong when faced with strong winds.

It is also important to look at the diversity of trees in the landscape, Bomberger said, and this will help in the event of an insect or disease impacting the area trees.

"We need to have a diverse mix of trees that tolerate our climate and stressors such as insects and diseases that can make them more vulnerable," Bomberger said. "And the best way we can build resiliency is to make sure we have a mix of species in our landscapes."

For more information, Bomberger recommends people check out the tree planting and care tab on the Kansas Forest Service website.

AUCTION for CHARLIE CAMPBELL ESTATE
SATURDAY, AUGUST 19, 2023 — 9:00 AM
AUCTION LOCATION: 627 Market Street, PORTIS, KS 67474

FURNITURE & MISC.: inc.: oak ice box; oak buffet; kitchen cabinet w/ spice & sugar jars & more. **MISC:** 6S Blind Stitch Industrial sewing machine; trailer of misc. wood pcs. (some exotic); Harley-Davidson exhaust systems & more. **NICE HORSE DRAWN TRAVELING BUGGY w/HARNESS WILL SELL AT 12 NOON. ANTIQUES, PRIMITIVES, COLLECTIBLES:** Large dolls; ladies sports bike; 2.5, & 10 gal. Red Wing crocks; 8 gal. Oak Leaf crock; 4 gal. Red Wing churn; oak telephone; cream can; 1920s design book; fur coats; Red Wing crock jar; kero lamps; wood Philco radio; cast iron skillet; 221 Singer Featherlite sewing machine; Pyrex; new Carnival; S&Ps; old maps; marbles; calendar tops (C.M. Russell, Andrist agency); adv. matchbooks, pens & pencils; Zenith radio; leaded glass & etched glass pcs.; pocket knives; Jack Rabbit plane; Coke & Pepsi bottle openers; post office box doors; Firestone watering can; Kansas tags inc. 1931; Shiny Bright Christmas decorations; adv. yardsticks; Everyready dust pump; All American tool box; Riverside oak stove for parts; nice MW wood stove; enamelware; goose & duck decoys; toys inc: musical color TV w/box, Structo, Nylint & Tonka toys & more!; Maytag can; Coleman funnel; small iron wheels; & more! **LOTS OF NICE TOOLS WILL SELL FOLLOWING BUGGY INC.:** Dremel; lots of Craftsman hand tools; B&D router; Dewalt palm sander; cement tools; bar & pipe clamps; rakes, hoes forks, axes, posthole diggers, shovels, etc; fence stretcher; jack stands; tool boxes; drill bits; Pro level; Craftsman chain saw (gas & elec); wrenches & sockets; Craftsman 10" band saw; Ryobi detail sander; Craftsman drill press; drill & router bits; Forstner bits; Craftsman sander 4"x6" belt & disk; Porter Cable 12 1/2 planer; Craftsman 16" varispeed scroll saw; Delta 6" varispeed bench jointer; 9" Rockwell table saw; Craftsman 12" wood lathe; Craftsman copy crafter; 6" Craftsman grinder; Craftsman 3x2 1/2" belt sander; Ryobi 12" 5/16 precision surface planer; Craftsman 10" table saw; CH 100 psi air nailer; Delta 10" compound mitre saw; dovetail machine; B&D edger; wood chisel set; Sno Chief 20" snow blower; MW tiller; 26" snow blower; Porter Cable 3000 watt generator; Delta planer; Hawk Pro scroll saw; Ryobi 10" table saw; Craftsman 10" radial arm saw; 4 drawer work bench; tool boxes; C.P. 6 gal. 150 psi air compressor; sanders, drills, routers, grinders, laser track levels; acty. guage hose & torch; metric & SAE wrenches; 1/4", 3/8" & 1/2" sockets; new 2500 lb. winch; new 1/2 hp jet pump; battery charger; chain hoist; Tradesman drill press, table top w/size; Precision tool box; Delta 10" miter box. **MOWER TRACTOR, SPRAYER, ETC.:** JD 112 tractor; ATV sprayer; limb shredder; Farmtuff running gear; 30 gal. SMV yard sprayer; 15 gal. Ironton yard sprayer; lawn aerator; IHC tractor parts; **LOTS OF NICE TOOLS & OTHER ITEMS ON THIS AUCTION! SOMETHING FOR EVERYONE!**

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Tribute established for Lynn Smith, retiring executive director of Pioneer Bluffs

Pioneer Bluffs Board president Nancy Mattke has announced that a \$30,000 donation from anonymous donors will honor the accomplishments and legacy of retiring executive director Lynn Smith.

The donation will establish the Lynn Smith Home and Ranch Heritage Fund. "The purpose of the fund," said Nancy, "will be to build upon Lynn's achievements over the past 15 years and continue her legacy into the future."

The fund will provide financial support for the continued revitalization of the farmhouse built in 1908 and the barn built in 1915. In addition, it will support the ongoing Ranching Heritage mission of Pioneer Bluffs.

Lynn served as the first executive director of Pioneer Bluffs, beginning in 2008. Under Smith's leadership, Pioneer Bluffs became widely recognized as the only Center dedicated to preservation of Flint Hills Ranching

NCBA president hits back at animal rights activists and policymakers

National Cattlemen's Beef Association (NCBA) president Todd Wilkinson, a South Dakota cattle producer, responded to attacks on the Beef Checkoff and NCBA from animal rights activists and their allies in Congress:

"As a cattle producer, I know what it means to work hard for every dollar, and I am proud to invest my money in the Beef Checkoff. It's extremely disappointing to see members of Congress, who have historically been allies to agriculture, turn on the cattle industry and attack our producer-led checkoff."

"I am especially disappointed in Rep. Victoria Spartz who claimed in a recent interview that she paid into the wheat checkoff, which does not exist at the federal level. I'd encourage people to understand the truth about how Checkoff programs operate by visiting their websites, or better yet, by getting involved in the Checkoff programs themselves rather than spreading misinformation that furthers the goals of anti-agriculture activists."

created by cattle producers, voted on by producers, and is directed by producers. It's a program that delivers a \$11.91 return on investment and strengthens demand for our high-quality beef. The Checkoff is also extremely transparent and if anyone wants to know where Beef Checkoff dollars go, all you have to do is visit the Cattlemen's Beef Board website.

"Groups like Farm Action also have no business claiming to represent America's farmers and ranchers. Their leaders, including Angela Huffman and Joe Maxwell, are career animal rights activists who have spent years attacking animal agriculture. In fact, the Animal Agriculture Alliance just added Farm Action, and other groups like the Organization for Competitive Markets to their Animal Rights Extremism list. Members of Congress should listen to the folks who are raising cattle and keeping our nation fed, not animal rights extremists hiding behind an organization that falsely claims to represent the interests of farmers and ranchers."

"The Beef Checkoff was

Heritage.

In the past 15 years, most of the century-old buildings have been restored or renovated and a new log cabin has been built. The barn is now an event space, regularly filled with those attending Prairie Talks, concerts, barn dances, youth activities and weddings. The grounds are open to the public and nearly every day visitors come to explore the nature trail, have a picnic, experience a self-guided tour or simply for bird watching or creek wading.

Nancy said others can donate to the Lynn Smith Home and Ranch Heritage Fund, and one such opportunity for contributions would be the upcoming Match Day

Program in November, sponsored by Emporia Community Foundation. This year ECF will make \$175,000 available in matching funds to 35 participating organizations, including Pioneer Bluffs.

"I am humbled and honored by this recognition," said Lynn, "There is so much that can be accomplished with this size of gift, and the possibilities will grow exponentially if it inspires additional contributions."

"We are excited about this very generous donation, and grateful for the commitment and contribution Lynn has made to Pioneer Bluffs," said Nancy. "Her leadership has been paramount to our success, and it is very fitting that this fund will continue her work."

We want to see your Kid's Corner pages!

Send us any completed Kid's Corner page and you could win a prize!

*Contest will run July 25th, August 8th, 15th, and 22nd — 4 chances to win!!!!

Winners will be drawn randomly from all submissions received by 9 a.m. the Friday prior to the edition.

*No limit on number of submissions, but you may only win once per contest.

YOU COULD WIN:

Week 1 - July 25:

Book:
"The Prairie Nature Built"
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Week 2 - August 8:

Book:
"B is for Buckaroo"
CONGRATULATIONS
Rachel M. • Wakefield, KS



Week 3 - August 15:

Deadline to win: 9 a.m. Friday, August 11th*

(2) Youth Passes to the
Flint Hills Discovery Center



Week 4 - August 22:

GRAND PRIZE DRAWING

Deadline to win: 9 a.m. Friday, August 18th*

All non-winning entries received for previous weeks will be entered to win! (one entry per child)

Family Pack (4 tickets) for the
Kansas State Fair Monster Trucks
September 17, 2023 @ 5:00 PM

*Winner will be drawn from submissions received by deadline. Pool will start over each week, so if you would like to enter multiple weeks, you must send multiple entries. Entries received after deadline will be entered into the next week's pool. If no submissions are received for a contest week, contest will be pushed back to the next week until all 4 prizes have been won.

BE SURE TO INCLUDE YOUR NAME, AGE, MAILING ADDRESS & PHONE NUMBER WITH EACH SUBMISSION. *We do not sell or distribute any information received. It is used for contact purposes only.

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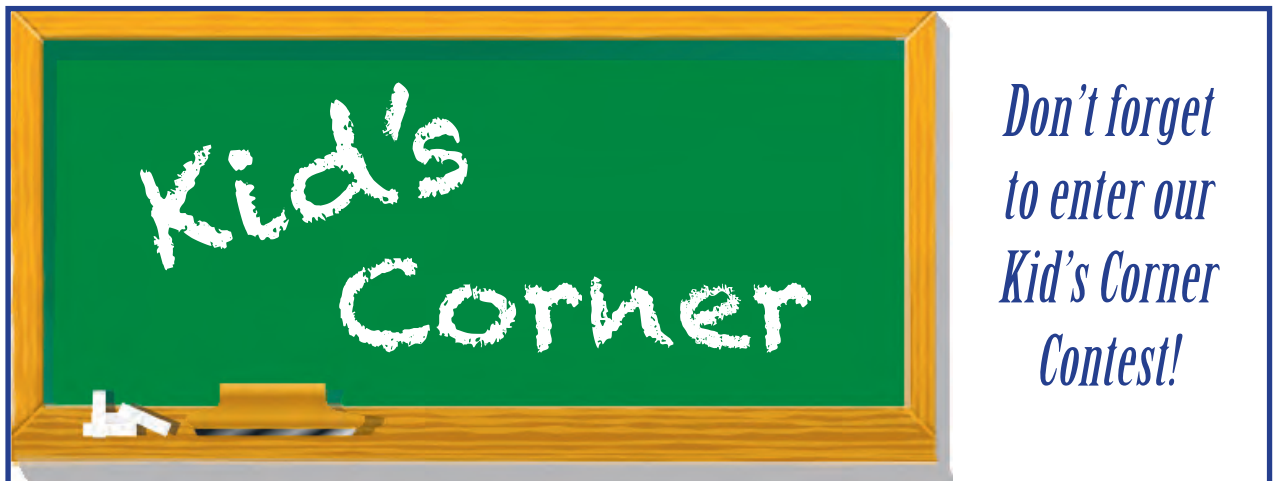
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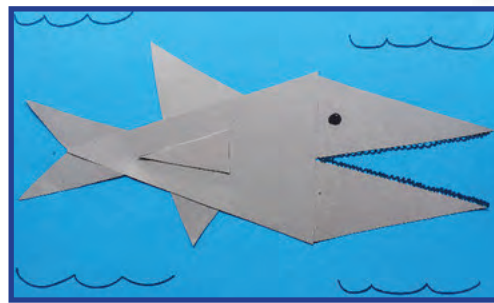
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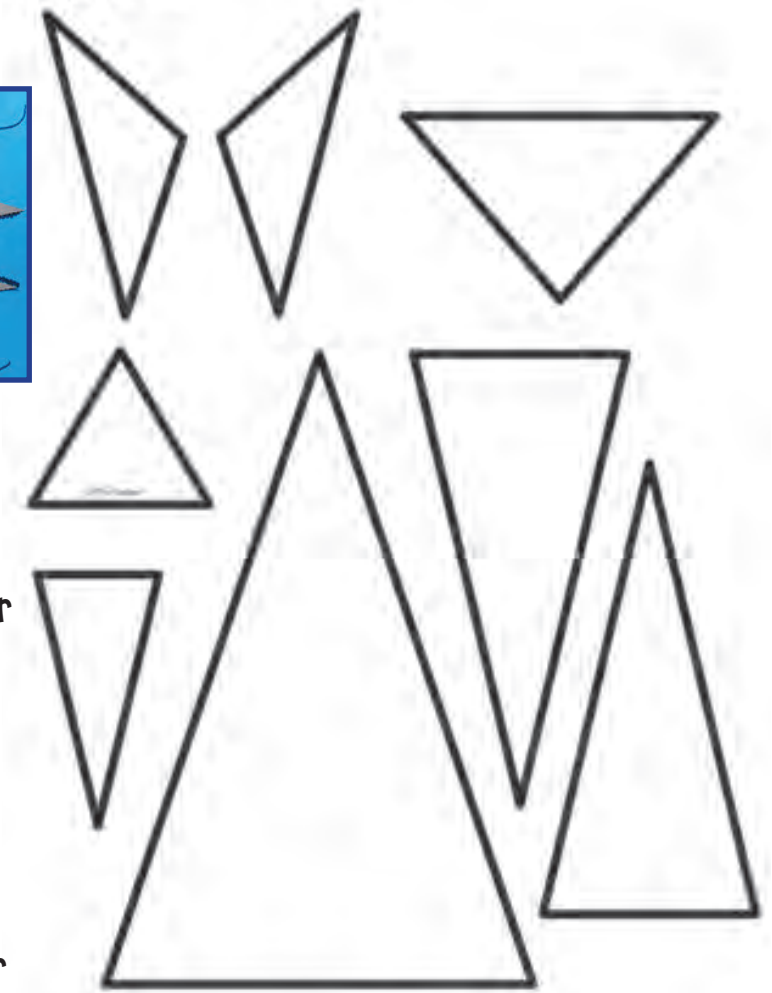


Don't forget to enter our Kid's Corner Contest!

Take a bite out of this craft!



Triangle Patterns



MATERIALS FOR ONE SHARK:

- scissors
- glue/glue stick
- black marker
- grey & blue construction paper

DIRECTIONS:

- Cut out the triangle patterns on the grey paper
- Arrange the triangles on the blue paper to form a shark
- Glue the triangles in place
- Draw an eye, teeth, and other details of your choice

Color the garden!





2023 CLOUD COUNTY FAIR LIVESTOCK GRAND AND RESERVE CHAMPIONS



Grand Champion Market Lamb
Lee Lacy, Miltonvale Hustlers 4-H



Reserve Champion Market Lamb
Seth Lacy, Miltonvale Hustlers



Grand Champion Market Swine
Grant Robinson, Hollis Hustlers 4-H



Reserve Champion Market Swine
Keaton Robeson, Hollis Hustlers 4-H



Grand Champion Market Goat
Sawyer Kolman, Clyde Roadrunners 4-H



Reserve Champion Market Goat
Broden Kolman, Clyde Roadrunners

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Carpenter Cattle Company to host KLA/K-State Field Day

Carpenter Cattle Company will host the August 17 Kansas Livestock Association (KLA)/Kansas State University Ranch Management Field Day in a pasture located at the intersection of Eagle Eye and Logan County Road 150 in Logan County. Educational sessions during the field day will cover a variety of topics.

Keith Harmony, professor and range scientist at the K-State agricultural research center in Hays, will explain why less desirable or weedy plants may show up during or after drought. He also will offer solutions, if there are any, that could and arguably should be done to control the particular species.

In a market outlook, Don Close with Terrain will highlight the opportunities and challenges that come with rebuilding the U.S. cow herd. Inflationary risk for consumer demand, cattle replacement costs and weather all will impact how long the rebuilding phase will take. Close is the chief research and analytics officer for Ter-

rain, leading the team of economists and analysts who provide insights for customers of American AgCredit and Frontier Farm Credit.

Wayne Carpenter will discuss why Carpenter Cattle Company has been involved with U.S. Premium Beef (USPB) since its inception more than 25 years ago, and the benefits they have received in marketing cattle and having ownership in processing through USPB. Brian Bertelsen, vice president of field operations for USPB, will give a brief overview of the company and share insight as to what drives premiums on the USPB value-based grid.

The field day will begin with registration at 3:30 p.m. and conclude with a free beef dinner at 7:00 p.m. All livestock producers and others involved in the business are invited to attend.

To get to the field day location from Oakley, travel west on US-40 for 21 3/4 miles. Turn northwest (right)

on Apache Acre and continue straight through the town of Winona for about 6 miles. Turn north (right) onto Logan County Road 170, then travel 4 miles. Turn west (left) onto Eagle Eye and travel 2 miles to intersection with Logan County Road 150, where there is a pasture entrance. From Goodland, go east on I-70 for 17 miles. Take exit 36 and go south (right) on Thomas County Road 2 for 2 miles. Turn east (left) onto Thomas County Road M, then travel 1 mile. Turn south (right) onto Thomas County Road 3 and go 12 miles. Turn west (right) onto Fort Fox/Thomas County Road A and travel for 1 3/4 miles to Logan County Road 150. Turn south (left) onto Logan County Road 150 and travel 1 mile to the pasture entrance at Logan County Road 150 and Eagle Eye Road. Field day directional signs will be posted.

The Farm Credit Associations of Kansas and Huvepharma are sponsoring the event. For more information, go to www.kla.org or call the KLA office at (785) 273-5115.

Aerial seeding cover crops is a possibility

By James Coover, Wildcat Extension District Crop Production Agent

Cover crops are nice and all, and are shown to have numerous soil benefits, but they do not always fit into the crop rotation. Most of the corn ground will likely go back into wheat this fall, especially with the current wheat market prices. However, there are a lot of soybean acres this year, both long-season and double-cropped. Since soybeans are often harvested in late October to early November, it does not leave much room for a cover crop. This is especially true if corn will be planted in early April. While cereal rye can be planted in November and still get a stand established, clovers and brassicas do not stand a chance. The cereal rye will not really grow much before the hard winter freezes. It would be better if everything could be planted

directly into the soybeans in September while they were still standing. This could be where aerial seeding may be something to consider.

Seeding by air is nothing new. It started in the 1930s and '40s when tree seeds were dropped by air to reforest areas after wildfires. This type of reforestation practice has been attempted even in recent years, though from what I've read, none of it works very well because it's hard to get the tree seeds into the forest floor soil. However, flying on cover crops has proven to work pretty well... if the weather is right, if the timing is right, with the right seed, and by someone who knows how. Also, check the soybean herbicides as well. Some have plenty of long enough residual that any sort of seeding is unlikely to work.

When to Fly On Seed

For the most part, we are talking about seeding

into soybeans in southeast Kansas. Some places farther north might seed into later planted corn, but very little corn is planted late here. The right time to fly on cover crop seed in soybeans is right when the leaves start to yellow and perhaps the first few have started to drop. The idea is to get the seed through the soybean canopy and touch the soil. Then, the soybean leaves will fall on them and create a moisture barrier to help with germination. If the soil is wet when seeding, that is even better.

Timing the Weather

I have heard farmers say that aerial seeding works 50% of the time. That 50% of the time it worked because the weather was right. Aerial seeding is effectively broadcasting the seed and then not rolling it in. The stand entirely depends on getting a week of cloudy and rainy weather. The seed can sit there for a

little while on dry soil, but the worst-case situation is where there is enough moisture to get it germinated but then dries out. Sometimes our Septembers are hot and dry, like all last fall, but some years we get some moisture that blows in during the hurricane season in the Gulf. Aerial seeding is always a gamble, but it is best to have the odds in your favor.

Choosing the Right Seed

Anything with smaller seeds is ideal. Ryegrass, clover, and brassica seed work best, but some of the other cereal grains might work as well. Another advantage is that smaller seeds mean less pounds per acre and therefore fewer refills for the applicator. Ryegrass seed is pretty light and can get blown around some before getting to the ground. A seed coating can help, but this is not necessary. The larger seeded

legumes have very little chance of working even in the best of conditions. Wheat is a possibility, even though the seeds are a little bit larger. However, I do not recommend flying on a wheat crop for grain. Some years might actually work, but there is a serious risk of winterkill and spring freeze damage to wheat that germinates on the soil surface. Another aspect of seed selection is what is the crop rotation and intent with the cover crop. Is the field going back into early April planted corn or soybeans planted in May? Is the field going to be grazed, hayed, or only used as a cover?

Risks of Aerial Seeding

I have talked to a few farmers who said it works great when the weather is right, and I have talked to some farmers who will never try it again. It is no secret that it is not always going to work. That can be a real barrier consider-

ing the extra expense of aerial seeding. However, per acre, it is not that much more expensive when considering the cost of equipment, diesel, and time when planting with a ground seeder. The real choice comes down to this - if the soil moisture is good, the weather forecast looks right, and the crop is at the right stage, think about giving aerial seeding a try. Otherwise, it is not worth the risk. It is best to start small when deciding whether to try aerial seeding, and of course, talk to your NRCS office if there is a program to help with cost reimbursement.

If you are wondering what sort of cover crops to try in your operation, give me a call at any Wildcat Extension office.

For more information, please contact James Coover, Crop Production Agent, at jcoover@ksu.edu or (620) 724-8233.

Red Angus scholarship winners announced

Through the support of the Red Angus Foundation Inc., the Red Angus Association of America is pleased to award college scholarships to JRA members who are active in the association, their communities and the beef industry. Recipients completed an extensive application and interview process, and have proven their communications skills, professionalism and potential for leadership. Each scholarship recipient plans to attend either a two-year college or four-year university in the coming year.

The following five JRA members will receive a \$1,000 college scholarship.

Brooke Calteaux is the daughter of Brian and Annette Calteaux of Winona, Minnesota, where she is a senior at Winona Senior High School. She plans to attend the University of Wisconsin-River Falls to major in agricultural education with a minor in ag business. As a member of the Happy Hart 4-H Club, she is currently the president and has held the office of secretary and reporter/historian. Additionally, she is the president of the Winona County 4-H Federation and serves on the Minnesota State Fair Beef Committee. Calteaux is also very active in FFA where she currently serves as secretary. Calteaux's passion is Red Angus, and in addition to being the Minnesota Ju-

nior Red Angus president, she is also the Minnesota Junior Red Angus breed ambassador. She is looking forward to the next chapter in her life, educating tomorrow's consumers and expanding her knowledge in the industry.

Natalie Evans is the 18-year-old daughter of Sean and Amy Evans of Jacksonville, Illinois. She is a freshman pre-veterinary medicine major at Murray State University. Currently, she is employed at MSU's swine farm and is involved in the Swine Club, Block and Bridle and the Pre-Vet/Vet Tech Clubs. She has the ambition to go to veterinary school and work in large animal medicine. Evans enjoys showing Red Angus at the national, state and local levels. Her interest in large animal medicine was first sparked when she began showing Red Angus seven years ago. She is forever grateful that the Red Angus breed introduced her to her passion, and encouraged her to network with other breeders and learn more about the beef industry.

Morley Griffith, daughter of Matt and Twana Griffith, grew up on a small cow-calf operation in Shawnee, Oklahoma, and has been exhibiting cattle since the age of five. She has won various national titles throughout her tenure in the junior livestock program. While

she is proud of her success in the show ring, she is most proud of the relationships she has built and how she has grown as a cattle woman. Griffith has taught workshops on beef byproducts, herdsmanhood and the beef supply chain across the country. She recently won the state 4-H beef record book. She has a passion for advocating for the beef industry and is the current Oklahoma Cattlewoman's Beef Advocacy Champion. Griffith plans to attend Oklahoma State University and double major in agriculture leadership and strategic communications. Griffith credits her passion and drive to the cattle industry that has blessed her so much.

Brett Sartin of Strafford, Missouri, is a 2023 graduate of Fair Grove High School. Sartin is the son of Clint and Veronica Sartin. He is a third-generation cattle farmer from southwest Missouri who has been active in various agriculture related organizations. He has served on the board of the Missouri Junior Red Angus Association and Fair Grove's FFA Chapter. He has been successful in show rings across the Midwest, twice winning reserve champion steer at the national level. Sartin is seeking an agribusiness degree and looking forward to enhancing his family's farming, real estate and construction

operations while keeping their rich traditions in agriculture alive.

Calley Stubbs of Sharon Springs, is the daughter of Becky and Darrell Vandike and Adam and Jill Stubbs. Stubbs is currently attending Butler Community College in El Dorado, where she is a member of the livestock judging team. She is also involved in Collegiate Farm Bureau and serves as the vice president for the North American Junior Red Angus Event junior board. Stubbs hopes to become a ruminant nutritionist and keep developing her herd of Red Angus cattle.

RAAA is also pleased to announce the recipient of the \$500 Dee Sonstegard Memorial Scholarship.

Zachary Griffith of

Marietta, Oklahoma, is a graduating senior at Turner High School and is the son of Kelley and Anne Kimmey. He plans to attend Oklahoma State University to pursue an animal science degree with

a ranching operations emphasis. Griffith has been an active member of the Red Angus breed since he was eight, and plans to return to Love County to join his parents in the ranching operations.



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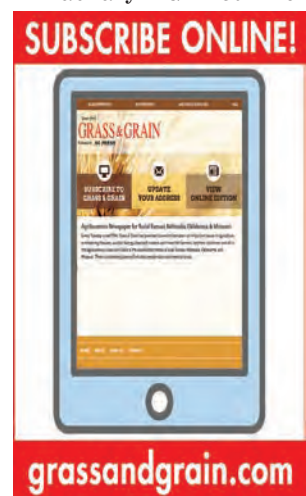
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Public Notice by Kansas Pork Association and the National Pork Board Selection of 2024 National Pork Board Delegates

The election of pork producer delegate candidates for the 2024 National Pork Producers (Pork Act) Delegate Body will be conducted electronically on **Wednesday, August 30, 2023, from 9 a.m. - 4 p.m.** Voting can be done at the following link: www.kspork.org/2024-delegate-election. After submitting the electronic ballot, a "Thank You for Voting" message will be displayed to confirm the electronic vote was successful. Any producer, age 18 or older, who is a resident of the state and has paid all assessments due may be considered as a delegate candidate and/or participate in the election. One vote per eligible producer. **For more information, contact Kansas Pork Association, 2601 Farm Bureau Road, Manhattan, KS 66502, phone 785-776-0442.**

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