# GRASS&GRAIN

AGRICULTURE'S LOCAL NEWSPAPER

KOMOKOLO PONKA DANAMOKAR CHAKOVA MAKAMOGATA ANAMATAK NASAKAMAKAMATA ANAMATA ANAMATAKAMAKAMAKAMA MAKAMA MAKAMAKAMA

Published by AG PRESS

67th Year

No. 10

May 4, 2021

\$1.00



# Students invent robot to add safety to grain bin management

University of Nebraska Omaha students Benjamin Johnson and Zane Zents were recently named a \$10,000 "Eat It" Lemelson-MIT Student Prize Undergraduate Team Winner for their invention, the Grain Weevil, which is a grain extraction and bin management robot.

The Challenge: Between harvest and distribution, grain is often stored in large bins on farms. There are over one million grain bins across the United States, collectively providing storage capacity for 13.5 billion bushels of grain. To maintain the quality of the grain for sale, moisture and overheating must be prevented during storage. Grain also must be routinely leveled to maximize storage capacity. If conditions in the bin are not properly maintained, the grain can be damaged or clump together, forming a crust of hard grain on the top surface. The grain may also stick to the interior walls of the bin, making it difficult to extract. These scenarios lead to post-harvest grain loss. Estimated pre-consumer grain loss in developed countries like the U.S. equates to 12% of grain supply, and another 18% is lost as consumer waste.

Proper grain management can be difficult, dangerous, and deadly. Technology provides farmers with data about the conditions within a grain bin. Grain management, however, must be done manually.



Ben Johnson and Zane Zents were awarded a \$10,000 prize from "Eat It" Lemelson-MIT for their invention of the Grain Weevil, which is a grain extraction and bin management robot.

Courtesy photo

Farmers and their children (sometimes as young as 14) must ensure that grain is level and properly aerated by entering the

grain bin, enduring temperatures of up to 140 degrees Fahrenheit, to physically move grain with shovels or other tools. U.S. farmers put their lives at risk by entering grain bins where they may suffer illness, injury, entrapment, and even death. On bin accidents involves a boy in his teens — in 2019 there were eight known accidents involving teenagers. Up to 7% of farmers in the U.S. develop a disease commonly known as farmer's lung4 brought on by an allergic reaction to grain dust that causes lung inflammation, shortness of breath, increased heart rate, cough, and sometimes permanent lung damage. Farmers typically live just eight years after diagnosis. Developing technology to address grain management is difficult due to the nature of grain in storage, which moves and functions in fluid ways, with hot pockets of air creating a quicksand effect. There have been no machines to date that have been able to successfully navigate the top surface of the grain while avoiding entrapment in the grain.

The Solution: Johnson and Zents invented the Grain Weevil, a grain bin safety and management robot that weighs less than 30 pounds. The Grain Weevil is small enough to fit in a backpack and uses horizontal augers and gravity to level and redistribute grain within a bin.

The robot rests on two augers that propel it forward and simultaneously do the work of leveling and aerating the grain by scurrying across the top surface without flipping over or getting buried. The drilling action of the augers, in conjunction with the natural force of grav-

ity, facilitates grain movement and maintains appropriate viscosity, moisture levels, and temperature. The Grain Weevil is waterproof and dustproof, and is able to dig itself out from as much as five feet of grain if it is accidentally buried.

The Grain Weevil can be transported in a specially designed backpack, allowing it to be easily carried to the top of a grain bin for placement inside. The robot is currently operated via remote control, but a fully autonomous self-driving vehicle is close to completion. Battery life for the Grain Weevil is approximately three hours. A longer battery life is anticipated, which will allow for a full maintenance cycle to be completed with only one charge.

Commercialization: Nearly 450,000 U.S. farms ranging from small family farms to large corporate operations have grain bins. The Grain Weevil addresses safety and grain management across both areas and meets the quality standards of large corporate farms. Johnson and Zents plan to have a service model that includes customers purchasing one Grain Weevil per grain bin for continuous bin maintenance and service calls as needed. Over the course of one year, the Grain Weevil will pay for itself in savings from preventing lost grain products. The team has one full utility patent pending and a second one near completion.

# Kansas State University celebrates the naming of the Carl and Melinda Helwig Department of Biological and Agricultural Engineering

Carl and Melinda Helwig of Columbus have invested in the naming of the Carl and Melinda Helwig Department of Biological and Agricultural Engineering in the Carl R. Ice College of Engineering at Kansas State University. On Friday, April 23, the college celebrated this naming in the Helwigs' honor.

This investment will empower the department to recruit and retain top faculty, support deserving students and provide flexible funding for department leaders to take advantage of emerging opportunities.

"I am extremely honored that Carl and Melinda Helwig have chosen to invest in the Department of Biological and Agricultural Engineering,"

said Joseph Harner, department head and professor. "The Helwigs are committed to assuring undergraduate students have extracurricular experiential learning opportunities beyond the Their gener ous gift enables students to participate in a team environment working on product design, testing, manufacturing and marketing prior to entering the professional work-

Carl and Melinda Helwig, owners of Helwig Farms, raised wheat, corn, soybeans and grain sorghum on their southeast Kansas farm. The Helwigs also competed in tractor-pulling competitions and placed nationally in the early 1980s. Neither attended Kansas State



Carl and Melinda Helwig have invested in the naming of the Carl and Melinda Helwig Department of Biological and Agricultural Engineering in the Carl R. Ice College of Engineering at Kansas State University. University, but in recent years became important supporters and mentors of K-State students by investing in the university's quarter-scale tractor team, which demonstrates the power of engineering and inspired innovation. They felt a kinship with the students of this team and were motivated to support them.

"We are honored to support K-State as it educates the next generation of engineering professionals," said Carl Helwig. "We have had a good life, been fortunate in grain production, and we've enjoyed the thrill of competition. We want students to have every opportunity to be on top."

A gift of this magnitude is truly transformational for the college and the

university.

"Carl and Melinda Helwig personify the generosity of the K-State family,"
said K-State president
Richard Myers. "Their investment in the success of
the Carl R. Ice College of
Engineering faculty, students and programs not
only elevates the college
but brings prestige to the
university and helps propel K-State toward being
nationally recognized as
a student-centered, public research university."

As Kansas State University's strategic partner for philanthropy, the KSU Foundation inspires and guides philanthropy toward university priorities to boldly advance the K-State family. Visit www.ksufoundation.org for

### Sens. Moran, Durbin introduce bill to boost agriculture research funding

U.S. senators Jerry Moran (R-Kan.) and Dick Durbin (D-Ill.) – members of the Senate Committee on Appropriations – introduced legislation that would require a five percent annual funding increase each year for the next ten years for research activities at the U.S. Department of Agriculture (USDA).

With federal agriculture research investments on the decline, the America Grows Act would restore the United States' commitment to publicly-funded agriculture research at USDA. Increasing research at USDA will expand American competiveness in foreign markets: improve sustainable production and climate issues; find more food solutions for global population growth; combat risks for plant and animal disease transmissions; and expand adoption of new data communications, computing technologies, engineering and robotics.

"For U.S. farmers and ranchers to remain competitive in the world, it is important for our country to prioritize making investments in agricultural research," said Moran. "With the help of the latest research and tech-

nology, Kansas producers constantly adapt their practices and methods to improve the way we grow and raise our food. This legislation builds on the critical role USDA plays in conducting research to help our nation's agricultural producers continue to feed, fuel and clothe the world."

"The time has come for the United States to reinvigorate our commitment to publically-funded agriculture innovations," said Durbin. "The America Grows Act would boost USDA funding for more breakthroughs and innovations to make America stronger than ever before in food and agriculture. In recent years, China has elevated its commitment to public agriculture research while U.S. public funding has fallen behind. If we want to maintain and strengthen American leadership, we must restore our commitment to bold and effective federal research funding."

Today, most domestic agriculture research is funded by large pri-

vate-sector corporations. Moreover, the U.S. share of total agriculture research investments among high-income countries as a group has declined from 35 percent in 1960 to less than 25 percent by 2013. By comparison, in the past 30 years, Chinese investments in agriculture research has risen eightfold.

Additionally, recently the American Farm Bureau Federation released a report which emphasized America's risk of falling behind in public agriculture research, especially to China.

The America Grows Act authorizes a five percent annual funding increase each year for the next 10 years for research activities at the USDA, specifically at the:

· Agriculture Research Service (ARS) – USDA's chief in-house scientific research agency with 90+ locations nationwide and overseas.

· National Institute for Food and Agriculture (NIFA) – which funds external research through a nationwide network of land-grant colleges and universities, agricultural experiment stations, schools of forestry, schools of veterinary medicine, and cooperative Extension experts.

National Agriculture
 Statistics Service (NASS)
 which collects and reports statistics on U.S.

agriculture, such as the farm census, crop forecasts, and price estimates.

more information.

· Economic Research Service (ERS) – which provides economic and policy analysis on farming, ranching, food, conservation practices, farm management, commodity markets and rural economic development.

# New study: agricultural trade can mitigate climate change impacts

A new study from the University of Illinois looks at how changes in weather, including extreme events, may decrease crop profits in one state while increasing profits in other states. The secret ingredient: U.S. interstate trade. According to the study, it is expected to mitigate the economic impact of climate change by up to \$14.5 billion by the middle of the century.

Researchers said the motivation for the study is twofold: Climate change brings about more frequent and intense extreme weather events, which impact agricultural production. While the current project focuses on U.S. interstate trade, researchers said the approach can also apply to global weather events and international trade as well as other sources of disruption in the supply chain such as diplomatic events or infrastructure vulnerability.

#### The Magic of a Grain Bin

**McPherson County farmer** and rancher

Throughout our farm you can see large, metal grain storage bins scattered about. While many farmers haul their grain to the local elevator while their crop is being harvested to either sell or to pay to have the grain stored for later sales, many also store grain in their own bins.

These "big bins" as the kids call them, can hold an impressive amount of grain. It allows our family the ability to store grain to sell throughout the year as the market changes.

A few years ago, we had a large grain bin built near our house. This new metal "giant" has held some of our corn since last fall. The year before, it was filled with grain sorghum.

Just like the stages observed during an annual life cycle of a crop, our newest bin also experiences stages. August gen-

a few remnants of the previous crop. It's swept and cleaned and prepared for fall harvest.

erally sees a bin with just

September ushers in a cleaned, empty bin, which encourages the family to go for evening walks to the structure and utilize the large chamber to hold impromptu mini-concerts. My daughter prefers singing songs associated with Disney princesses at the top of her lungs, while my son likes showcasing his novice beatboxing skills.

While the echoes allowed by the tall metal walls make it feel like one is singing within a stadium. I'm sure that from outside any observer would question the cacophony of sounds produced from both kids combining their preferred vocal performances.

Later in the fall, the concerts end, and we again review our safety rules with the kids before and while we monitor the trucks unloading grain. During this time, the bin ultimately will fill plum to the top. From late fall until early spring we will welcome semi trailers ready to be filled with golden streams of grain and then hauled to local feed yards, ethanol plants or elsewhere.

The stairs which curve around the outside of the bin allow the perfect opportunity to take in scenic views and look for wildlife during these storage months. While we take in the views, no one is allowed into the bin until it's time to start shoveling and sweeping the remains of the grain.

Currently there's only a thin layer of corn covering the floor of the bin. It's the perfect time for the family to take evening walks over to the silver structure, allowing the kids the opportunity to enjoy the feeling of the kernels between their bare toes. I'll sometimes do the same.

Later in the evenings following a visit to the bin and after bath times, I'll come upon a small collection of grain on the floor somewhere — usually making the discovery only after stepping on the kernels. It's better than stepping on a Lego brick.

Soon the bin will be swept and cleaned completely and then sit empty

for a few months. During that time, its purpose will change from holding grain to holding mini-concerts.

The annual stages of the large structure will reset, and soon more grain will gather within the walls. The levels of the stored crop will slowly lower until a thin layer remains, and the kids will once again relish the feel of grain between their toes. And throughout the year, we will continue to safely enjoy the magic of a grain bin.

"Insight" is a weekly column published by Kansas Farm Bureau, the state's  $largest \ farm \ organization$ whose mission is to strengthen agriculture and the lives of Kansans through advocacu. education and service.

#### Sen. Marshall announces \$615,000 in USDA funding for Kansas to increase American biofuel availability

U.S. Sen. Roger Marshall, M.D. has announced USDA is investing \$615,000 in the state of Kansas through a grant to increase American ethanol and biodiesel availability. These funds were made available to 24-7 Travel Stores through the Higher Blends Infrastructure Incentive Program (HBIIP).

"Strong ethanol and biofuel industries increase marketing options for farmers and provide consumers with an affordable, clean energy option at the pump – a clear win-win for all Kansans," said Marshall. "I applaud USDA's investment in regions of rural Kansas, and look forward to the expansion of biofuel sales benefitting not only our great state, but America as a

"Liquid Fueling systems have become very complex due to evolving environmental regulations and higher blends of ethanol add to the cost. The Higher Blend Infrastructure Incentive Program funded through USDA grants help to minimize the increased capital expenditures necessary to adapt to different fuel offerings that may be commercialized in the years ahead," said Mark Augustine, president of 24-7 Travel

Background: USDA's Higher Blends Infrastructure Incentive Program (HBIIP) investments will be used to build infrastructure to help expand the availability

of higher-blend renewable fuels. The HBIIP program helps give consumers more environmentally friendly fuel choices when they fill up at the pump.

This specific USDA grant will be used to create infrastructure to expand the sales and use of renewable fuels. This project will add and replace 33 dispensers and four storage tanks at four Triplett fueling stations located in Colby, Russell, Hays, and Goodland. This project will increase the amount of ethanol sold by over 7 million gallons per year. The purpose of this funding program is to assist owners of transportation fueling and fuel distribution facilities to expand the sales and use of ethanol and biofuel.

#### Mexico dominates March imports of

Kansas farmers have good reason to say "gracias" for continued wheat purchasing by their closest market — Mexico. Mexico dominated imports of U.S. hard red winter (HRW) wheat in March 2021, according to the latest data available from the U.S. Department of Agriculture (USDA). As the top importer for the month, Mexico purchased nearly 6.39 million bushels (roughly 174,00 metric tons), compared to no markets above the 100,000-metric ton (3.67 million bushels) threshold in February.

Thanks to duty-free access established by the American Free North Trade Agreement (NAFTA)

and solidified by the United States-Mexico-Canada Agreement (USMCA), Kansas elevators and Mexican flour mills have a highly interconnected supply chain. Combined with market development work by the Kansas Wheat Commission and U.S. Wheat Associates (USW), Mexico remains one of the largest

destinations for Kansas HRW wheat each year.

"Our key customers in Mexico know they can rely on Kansas wheat farmers to produce consistent quality year-in and yearout," said Aaron Harries, Kansas Wheat vice president of research and operations. "Maintaining trust with these top buyers requires continually sharing information on our wheat crop and providing technical support — information and expertise they do not receive from our compet-

Overall, the United States exported 19.7 million bushels (537,000 metric tons) of HRW in March, bringing the vear-to-date total to more than 267 million bushels (7.28 million metric tons). While last month's exports are more than 25 percent higher than the previous month, they lag nearly 36 percent behind March 2020.

Mexico represented the lion's share of these exports, but 13 countries in all imported HRW in March, up from nine in February. Nigeria remained the second-largest importer for the month at 3.43 million bushels (93,400 metric tons). Japan rounded out the top three importers for March 2021 at 1.87 million bushels (nearly 51,000 metric tons).

Inspections of HRW at Gulf, Pacific and Interior ports increased 35 percent from February but remained 20 percent less than March 2020.

USDA, in its monthly World Agricultural Supply and Demand Estimates (WASDE) report, projected the United States will export 985 million bushels (26.8 million metric tons) of wheat this marketing year. Ten months into the year, the United States has exported 77 percent of that total, slightly behind the pace needed to hit the

marketing year-end goal.

Kansas farmers can follow the exports of HRW wheat through a pair of reports from USW. USW provides both a weekly report on commercial sales and a visual rundown of the organization's analysis of the WASDE report, along with many other online resources.

"Both of these reports are important aspects of the wheat trade to understand as both can have an impact on the wheat market through futures and basis movements," Harries said.

The Kansas Wheat Commission is a member of USW, which combines funding from 19 state wheat commissions and cost-share grants from the USDA's Foreign Agricultural Service (FAS). As the wheat industry's export market development organization, USW promotes the reliability, quality and value of all six U.S. wheat classes to wheat buyers, millers, bakers, food processors and government officials in more than 100 countries around the world.

Follow USW's reporting on worldwide supply and demand at https:// www.uswheat.org/market-and-crop-information/ supply-and-demand/ and weekly commercial sales at https://www.uswheat. org/market-and-crop-information/commercial-sales/.



It is hard to know what is true these days; finding sources of information that are completely correct is hard to decipher. I try not to fall into the trap of internet conspiracy theories and extreme views. It is easy to get yourself worked up about something that is either twisted bits of fact or complete falsehoods just to stir things up, so I am always slow to jump on any bandwagon until I have more facts. That being said, I think it is more than time for those of us as beef producers to stand up to the overzealous climate change movement. They have really been spreading propaganda and it has my blood boiling.

I am a proud beef producer, and I am also one who is very conscientious about our natural resources and how to best protect them. In addition to my personal convictions, I hold a master's degree in range management, so I believe that I have the credentials to be an expert on the matter. I think the current trend of blaming beef production for climate change and the subsequent push to reduce or eliminate red meat consumption is one of the most baseless, senseless, and shameful campaigns I have ever seen.

The idea of it is that if we reduce our beef consumption to four pounds a year or eliminate it totally that we will greatly reduce greenhouse gases and lessen climate change. I call bull pucky on this. The fact is that methane emissions by beef animal is a very minute percentage of the total greenhouse gases and if we could eliminate beef animals it would not have any measurable impact on climate change. If we want to have a real impact, I will guess we need to focus on transportation and other things far more near and dear to our urban brethren's daily lives. Simply put, beef animals or the production of the safe, wholesome, nutritious food product on our table is inconsequential to nearly every other factor. Yet our livelihood is being targeted: why?

This is simply a means for anti-animal ag forces to chip away at or eliminate our farms and ranches and we must fight back. We know that our stewardship stores a great deal of carbon in the soil. Our conservation efforts have led to saving topsoil, cleaning water, and making our air safer, yet the so-called experts in the media never mention it. We need to tell our story and brag about all the good we do for our environment, all the while producing nutritious, safe, environmentally friendly protein in the form of beef.

If you think I am mad, you are right, I am fighting mad. However, this is the worst approach we can take while telling the non-ag public about what we do. Some of the best advice I ever got was to be mad when you are not mad. We cannot be defensive toward news or posts we read, we must be subjective and counter with good factual information about why our practices and cows are good for the environment. Things like the production of forage leads to millions of acres of carbon scrubbing grasses and other plants. Things like how the grazing actions of cows help keep grasslands healthy. All of this while beef is produced on millions of acres that would otherwise not be able to help feed our ever-growing population.

We must be calm and cool while telling our story; we need to be the voice of reason. Becoming defensive, upset, and mad just makes us look like we have something to hide or that we know we are doing bad things. Instead, we need to be proud of the conservation measures we are taking and the efficient, environmentally friendly way we produce food and show that to the public.

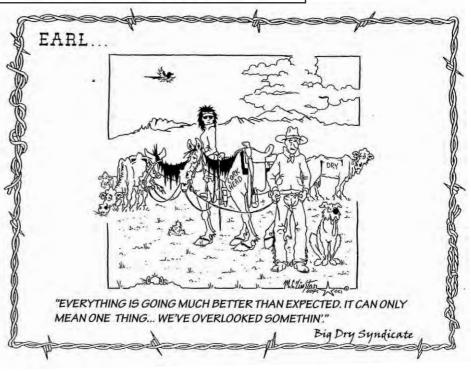
At the same time, we need to be active in our communities, counties, states and nation and make our voices heard. We cannot sit back and let the other side take control or continue to go unchallenged, it is up to all of us who have a hand in the production of red meat. We need to strengthen our farm organizations, take charge of our government at all levels, and combat the anti-animal agriculture movement because that is what this is.

It really is not about climate; the facts prove that. This is all about the elimination of animal agriculture and the radical groups are using climate change and the environment as a means to their end. Fighting them is tough because they are not hindered by presenting facts but rather use sensationalism and scare tactics. We in agriculture need to counter with truth and show the public who has everyone's best interests in mind.

I hope each of you will take this as a call to action and begin your own campaign to show all the good we do and how we are needed to protect our precious natural resources. Tell everyone you know, take pictures, show videos, and make your conservation efforts known to all. We have not lost anything yet, but it is time to act. Let us lead the



"I wish the ole lady would come home, I'm shore gittin' tired of washin' my own clothes!'



# SS&GR

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#### **GRASS & GRAIN (USPS 937-880)**

The newsweekly for Kansas and southern Nebraska, published each Tuesday at 1531 Yuma (Box 1009), Manhattan, KS by Ag Press, Inc. Periodicals postage paid at Manhattan, Kansas and additional offices. Postmaster send address changes to: Ag Press, Box 1009, Manhattan, KS 66505.

Subscription — \$76 for 2 years. \$41 for 1 year, plus applicable sales tax. Outside Kansas, \$51 for 1 year, \$95 for 2 years.

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# KDA shares virtual open house of new agricultural laboratory

In 2020, the Kansas Department of Agriculture's agricultural laboratory moved into a brand-new facility in Manhattan, next door to the KDA headquarters building. A virtual open house tour is now available to allow Kansans an inside look at this stateof-the-art facility.

The KDA lab includes six lab sections: metrology. dairy, microbiology, pesticide, industrial hemp, and feed and fertilizer. The lab serves the rest of the agency's divisions and programs as well as the citizens of Kansas by providing accurate and timely test results. The lab con-

ducts tests regarding food and feed safety, serving KDA's mission to protect human and animal health, as well as testing to verify label claims which helps to protect consumers from economic fraud. The metrology lab provides a broad scope of mass and volume calibration ser-

The new agricultural laboratory was designed

specifically to meet the needs of the program, so KDA can be more efficient in the lab's day-to-day testing activities as the agency works to meet specific program needs, and provides room to grow for future

agricultural testing needs. The lab employs chemists, microbiologists and metrologists who work together to ensure that the quality of the test results continues to meet nationally and internationally recognized standards for traceability and legal defensibility.

Watch the virtual open house video and read more about the features of the new KDA agricultural laboratory at www. agriculture.ks.gov/AgLabOpenHouse.

# Growing Better: K-State Garden Hour charges into summer series

A popular, lunch-hour gardening program that debuted in the early days of the COVID-19 pandemic continues to grow in popularity.

The K-State Garden Hour will kick off its summer online series on May 5 with 'Herbs: From Seed to Seasoning.' The program will be held from noon to 1 p.m. (CST).

A one-time registration gives viewers free access to all of the summer's sessions, which also include:

Beautiful Landscapes with Less Water. June 2 - Effective Irri-

May 19 - Xeriscaping:

to Support Native Bees.

Matthew McKernan, a K-State Research and Extension horticulture agent in Sedgwick County, said the viewers tuned in by the thousands for the spring series, which ended on April 21. He said that more than 3,000 people registered for at least one of the sessions, including a high of 955 for the April 7 presentation on raised bed and container garden-

"These participants represented at least 36 states, though 90% of the participants are from Kansas, and we had six in-

to continue to grow our participation and expand our outreach as more people become aware of the free gardening webinars we are offering.'

In 2020, at the height of the COVID-19 pandemic, McKernan said the K-State Garden Hour featured 21 webinars with more than 8,560 participants. So far in 2021, more than 6,000 people have participated in either the live webinars or the recordings

"Whether you are growing one plant or one acre of plants, there is something new in every K-State Garden Hour to learn," he

the scorching heat, bitter cold, drought, strong winds and insect or disease problems, there are many challenges for Kansas gardeners. Each K-State Garden Hour shares tips and tricks on how to avoid many of these common problems."

Organizers also have set the schedule for the fall (Aug. 4 through Sept. 15) and winter (Oct. 6 through Nov. 3) series. The programs planned and a description of each is available online. Recordings of last year's and this year's sessions also are available

#### Biden's ag budget request asks for 16% increase

The Biden administration recently submitted to Congress the President's priorities for fiscal year 2022 discretionary spending including \$27.8 billion for USDA, a \$3.8 billion, or 16% increase from the 2021 enacted level. In a statement, USDA says the funding request advances key agency priorities, including economic development and growth in rural America, maintaining support for American agriculture, rebuilding scientific expertise in our agencies, aiding in an all-of-government approach to mitigate and adapt to climate change, and supporting a strong safety net to address hunger and nutrition insecurity.

Specifically, the request calls for additional funds to expand broadband access. USDA notes that rural Americans are ten times more likely than their urban residents to lack access to quality broadband. The discretionary request provides an increase of \$65 million for broadband access over the 2021 enacted level for the Rural e-Connectivity program, "Reconnect," which provides grants and loans to deploy broadband to unserved areas. The benefits of high-speed internet will serve as an economic equalizer for rural America, and the work of installing broadband will create high-paying union jobs with benefits in rural communities, USDA says.





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# GRASS Our Daily Bread & GRAIN \* \* \* \* \* \* By G&G Area Cooks \* \* \*

Millie Conger, Tecumseh, Is This Week's Grass & Grain Recipe Contest Winner

Winner Millie Conger, Tecumseh: **MEXICAN LASAGNA** 

- 1 1/2 pounds ground beef
- 4-ounce can green chiles (2) 10-ounce cans mild enchilada sauce
- 16-ounce can yellow corn
- 12-ounce package corn tortillas
- 1 nound shredded Cheddar cheese
- For garnish: black olives, shredded lettuce, chopped tomatoes

Brown beef and drain. Add chiles, enchilada sauce and corn; mix well. Simmer 5 minutes. Layer tortillas, beef mixture and half of cheese in a 8-by-11-inch baking dish. Bake at 350 degrees for 30 minutes. Let stand 5 minutes before cutting. Garnish with remaining cheese, black olives, shredded lettuce, chopped tomatoes.

Darlene Thomas, Delphos: "Flour tortillas can be used in many recipes like bean and cheese quesadillas, fold-over tortilla bake, ham pinwheels and the classic tacos made with seasoned taco meat."

HOMEMADE TORTILLAS 2 cups all-purpose flour 3/4 cup water

3 tablespoons olive oil

In a large bowl combine flour and salt Stir in water and oil. Turn onto floured surface and knead 10 to 12 times adding a little flour or water if needed to achieve a smooth dough. Let rest for 10 minutes. Divide dough into 8 portions on a lightly floured surface; roll each portion into a 7-inch circle. In a greased cast iron or other heavy skillet cook tortillas over medium heat until lightly browned, 1 minute on each side. Serve warm. Makes 8 tortillas.

Jackie Doud, Topeka: "Very good on meat." PICKLED ONIONS

1/2 cup sliced red onion 1/3 cup red wine vinegar 2 tablespoons oil 1/4 teaspoon salt

1/4 teaspoon pepper Mix all together. Cover and let stand one hour.

Rose Edwards, Stillwater, Oklahoma: **BLUEBERRY MUFFIN BREAD** 

2 1/2 cups self-rising flour

- 1 cup sugar
- 1 cup milk 1/4 cup oil
- 1 egg
- 1 cup fresh blueberries

Set oven 350 degrees. Spray a 8-by-5-inch loaf pan. Whisk flour and sugar. Mix in remaining ingredients except blueberries. Pour half of batter into pan. Top with half of blueberries. Spread remaining dough over top. Top with remaining blueberries. Bake about 1 hour or until tests done. Let cool in pan 10 minutes then remove to rack.

Margaret Wetter, Norton: **OATMEAL BROWNIE BARS** 2 3/4 cups uncooked oats

1 cup flour

mix

- 1 cup brown sugar
- 1 cup chopped nuts 1 teaspoon baking soda
- 1 cup butter, melted
- 1 3/4 cups M&M mini baking bits

Mix oats, flour, brown sugar, nuts, baking soda, melted butter and M&M bits. Reserve 3 cups of the mixture. Pat remainder of the mix into a 15-by-10-by-1inch pan to form the crust. 19-ounce fudge brownie

Prepare the brownie mix as directed on package. Pour prepared brownie mix over crust and spread. Sprinkle remainder of the crumb mixture over the

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batter. Bake at 350 degrees for 25 to 30 minutes.

Susan Schrick, Hiawatha: "Easy and amazing!" APPLE-CINNAMON ROLLS 2 cans of cinnamon rolls, quartered

1 can apple pie filling 1/2 cup chopped walnuts or pecans

all ingredients Mix together and put into a sprayed 9-by-13-inch baking dish. Bake at 350 degrees for 45 minutes. Use cinnamon roll icing (that comes with rolls) for the topping when it comes out of the oven.

Kellee George, Shawnee: CHEESY ALFREDO PASTA 1/4 cup butter

- 1 teaspoon minced garlic 1 cup heavy whipping cream 3/4 cup grated Parmesan cheese 1 teaspoon pepper
- 1/2 teaspoon salt 12-ounce package extra wide egg noodles, cooked 3 tablespoons chopped fresh parsley

In a large saucepan melt butter over medium

heat. Add garlic and cook for 1 minute. Add cream and cook for 2 minutes. Add cheese, pepper and salt stirring until cheese is melted. Remove from heat. In a large bowl stir sauce, noodles and parsley; serve immediately.

Edwards, Kimberly Stillwater, Oklahoma: CHEESY GARLIC FRENCH BREAD

(16) 1-inch slices French bread

1/4 cup melted butter 2 large cloves garlic, halved 1 pound Gruyere cheese, thinly sliced

Black pepper

Preheat oven to 350 degrees. Place bread on a large rimmed baking sheet. Lightly brush top of bread with butter and rub with cut side of garlic. Bake until lightly browned, about 8 minutes. Divide cheese among bread slices. Bake until cheese is melted, about 5 minutes more. Garnish with pepper. Serve immediately.

#### **Healthy Alternatives For The** Snacker In The House

"Mom, can I have a snack?," "I'm hungry," "Dad, can I have some candy? I want candy!" These are sentences I heard this weekend from my own child. It seems he always wants a snack! Although his snacks of choice are gummy bears and chocolate, those are NOT the best choices, no matter what he tells me. I want to share some healthier options for the snack monster in your life. These are even good small bites for adults, especially for those watching their caloric intake.

When choosing snacks, choose multiple food groups to get the most bang for your buck. Fruits and vegetables are often the most neglected food groups, so I will focus on those today.

A lot of kids don't like to eat their vegetables. Here are a few options:

- \* Celery sticks with peanut butter and raisins
- \* Carrots with hummus or ranch
- \* Baked sweet potatoes with applesauce
- \* Cottage cheese with tomatoes
- \* Black bean quesadillas with whole-wheat tortillas At least for my kids, fruits are an easier sell. Here are

some ideas: Apple slices with peanut butter

- \* Whole-wheat toast with sliced bananas \* Low-fat yogurt with blueberries and strawberries
- \* Grapes with pretzels (be sure to cut the grapes lengthwise if serving to child under 5)

\* Fresh fruit in an ice cream cone As you can see, there are a lot of snacks that aren't pre-packaged, processed foods. I suggest that you make a list of some family favorites so healthy snacking is easier. I want to end with an idea I keep in my back pocket for fruit and veggie emergencies - SMOOTHIES. I use low-fat yogurt, frozen kale or spinach, and whatever fruit I have on hand. Throw it in a blender, call it dessert, and check

For more information, please contact Lacy O'Malley, lacyo@ksu.edu, or by calling 620-308-2970.

off a few servings of fruits, vegetables, and dairy.





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imately 10:30 a.m., I head to the post office for work. As I drive, I do the same thing every single time; I push the little button on my steering wheel and wait for the ding, and then say, "call Nanny." Nanny is my mom's mom and has been my biggest cheerleader for as long as I can remember. She always answers and we chat about the day, work. weather, furry friends, how ridiculous my aunt and mom are being and of course my nieces. She loves to be in the know and I love giving that to her. When I know a juicy piece of information, there is no one I get more excited to tell than her; she loves it. I can't think of one thing

to Bake

By now, I would guess

you probably have figured

out that I am happily a

creature of habit. Monday

through Friday at approx-

that she missed for me as a child, always showing up to show her support, but more importantly than that, she has always been a huge emotional support to me. Nanny is beyond sassy and stubborn; she clearly passed that on to my mother, who apparently decided to pass those glorious traits on to yours truly. This did not always make things easy between my mom and I, but Nanny always came to my rescue. To this day I can remember her driving her little gray car with her Coors Light can in the cup holder up the driveway to come get me, letting me spend the night, watch TV, relax and overall, just having my back.

As I was trying to decide which college I was going to go to, Nanny agreed to go look at Wichita State University with me. We were supposed to leave early one morning. Mornings have never been my strong suit. I was driving my mom's van and was shocked to find the windows frosted over that early morning. Knowing I was already running late. I did not have time to sit there and wait for them to thaw, I made the brave decision to drive with my head out the window, eventually putting my mom's van in the ditch on the opposite side of the road, right in front of my dad's parents' house. After that minor heart attack, I went to go get Nanny, I did not say a word until the sun started to come up, at which point I pointed out that the driver's side mirror was broken. Once we got to Wichita, we discovered the side of the van was also scratched up badly (there were also

pieces of trees on the inside that I frantically tried to get out without getting caught). My mom was not happy, she was adamant that I had done it. I was adamant that I did not, and you better believe Nanny would have taken a bullet for me, partially because she did not know what had actually happened, but also because she was going to have my back no matter what, always

Baking With

Sugarbuns

By Michele Carlyon

My Favorite

Cheerleader

The truth did not come out about the van until a couple of years later. I wanted a tattoo and did not want my dad to disown me. My mom told me I had to tell her a secret and she would get him to let it go. I told her the truth, she was determined Nanny knew; while Nanny might have suspected it by that point, she did not know, and she was still willing to maintain that I had not done anything, again always willing to support me.

Nanny is turning 94 on May 3, and still living life being my favorite cheerleader. She is still sharp as a tack and has no issue telling you what she thinks. She is witty, smart, loving and hands-down one of my all-time favorite humans to ever grace this earth. I have always said I do not want to get old, but if I can do it as beautifully as Nanny, there is nothing I would love more. If I make it to 94 and am doing even half as great as she is. I would consider myself lucky, I would consider myself blessed and most importantly I would forever be thankful for the woman who made me think it was all worth giving it my best shot.

Nanny I hope 94 is filled with everything you love, and I hope you never forget the impact you have had on my life, without you, life would not be what it is today, thank you for being my favorite cheerleader and for allowing me to always be your favorite (even though you will not admit

Happy Birthday Nanny! Michele grew up in Junction City and graduated from Kansas State University. She worked in the restaurant management field for six years before deciding to switch careers and now works as an office manager for a company that manufactures oilfield products. Her passion for blogging and food can be followed on Instaaram: boobsbrainsandbak-

If you would like to contact Michele with comments please email mcarlyon88@ qmail.com

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A Kitchen Herb Garden By Ashleigh Krispense

We're switching things up today and talking about one of my latest projects a kitchen herb garden. Well, technically it won't be in my kitchen, but it's for my kitchen.

There are multiple benefits to having an herb garden. Not only will you have access to fresh herbs for your dishes, but you can also dry them to be used later in the year. And the smell? It's wonderful. Your entire porch will be wrapped in a delightful scent (and they'll look cute, too!).

While you can start your plants from seed, I tend to take the easy way out and just buy some plants. Planning out where you'll plant your herbs before you buy them is also a good idea. A place near the kitchen will allow for easy access and you'll be able to notice if they get too dry and start wilting. Depending on which herbs you get, you'll also need to make sure they get plenty of sunlight to avoid becoming too long and leggy.

So what kind of herbs should you buy? There are so many different kinds you could pick from, but keep in mind how much room you have and what you can actually use. As far as pots, I enjoy using terra cotta pots for a lot of my plants, but they tend to dry out quickly. Especially if placed in full sun, you'll need to keep a close eye on them.

Cilantro is one of the most used herbs in my familv. Fresh salsa is a staple in the fridge during summer and it requires a whole handful of cilantro in each batch. Some people seem to love the bright, almost citrusy flavor of cilantro, while others can't stand it and describe it as "soapy" tasting.



Mint could be described as almost a noxious weed in the herb garden. A fast grower (and spreader) you'll need to keep it in check before it takes over. As you browse your local greenhouse, you might notice spearmint, peppermint, chocolate mint, apple mint, etc. Whatever mint you pick, be sure to smell it before you purchase. The aroma is one of the best parts of mint (in my opinion!).



Basil is one of my favorite herbs to put in buttery mashed potatoes. A slightly peppery flavor, it can also be used in sauces or on homemade pizza. Be sure it give it plenty of sunlight or it will get long and lanky.



Oregano prefers part sun and well-drained soil. It can be used in pizza crusts, pasta dishes or pestos. I like to use it when cooking chicken or even making homemade sau-



Rosemary (and lavender) are supposed to help ward off pesky mosquitoes, but I also enjoy them for the smell. You can also use rosemary in mashed potatoes or poultry dishes. Be sure to pull the needle-like leaves off of the woody stems before chopping and using it in any dishes!



Lavender has been a favorite plant of mine for years, but I've always struggled to keep it alive. While you can use it however you like, I enjoy it best when the flowers are dried and used as decoration in my kitchen. Lavender prefers well-drained, almost poor soil and full sun.

Whatever plants you choose to grow, be sure to pick ones that you will enjoy and use! If there's only one herb you like, don't worry about getting a variety of other kinds. Just plant what you'll enjoy!

Ashleigh is a freelance writer and the gal behind the website, Prairie Gal Cookin' (www.prairiegalcookin.com), where she shares step-by-step recipes and stories from the farm in Kansas.

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### **OUT IN THE BARN**

By Nancy A. Rezac

The dictionary says And three oil barrels a building, housing crops, livestock, machines

But to a lonely ranch kid it was a house of many dreams.

When I go down the highway and see barns crumbling down,

It's not the loss of assets of the boards of gray and brown

It's the loss of someone's memories, Out in the Barn

You see, out in the country where social life was lean

With votes of dog and many cats I was elected queen

Raising bottle calves and orphan kittens I was nurse supreme

It was a house of many rooms in imagination's scene Out in the Barn

Making steers' hair and horses' tails to look so mighty fine

A beautician fighting cockleburs and manure of bovines.

I was a star hoopster in the basketball court I knew

In the hay loft when the bales were fed and polished boards shown through Out in the Barn

I was a track star jumping weed stalk poles out back beside the place,

sat in a triangle in the lot my horse could race.

I knew all words to country songs on the radio that would blare.

The animals had time to listen when I told them of my cares Out in the Barn

Kittens would chase and do back flips as I teased them with a string

A cozy place to play outside while waiting for the spring

The creek nearby had tadpoles and a place for skipping rocks

I practiced cheerleading many times out by the cattle docks Out in the Barn

It was the thrill of victory as each calf and colt was born.

The agony of defeat as each deceased one's life was torn.

Mother Nature taught me the incredible facts of life.

Along with all the good times, you have to suffer strife.

Out in the Barn



This photo is not the actual barn being written about. It was taken by Kevin Macy, Grass & Grain.

Polishing tack and Yes, as a child in the scooping stalls gave time to contemplate Feeding hogs and gath-

ering eggs were sure to aggravate.

With soft horse whisper kisses and dog smiles I'd forget the mess.

middle of nowhere, I was truly blessed Out in the Barn

> Thanks to Nancy for sharing this with Grass & Grain.

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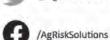
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# 

# The era of precision agriculture has arrived

The USDA has identified three pillars of sustainability for the agriculture industry: reduced environmental impact, increased productivity and yield, and a better overall economic result. Today's precision agriculture (PA) technologies are helping crop farmers make significant gains with all three pillars.

Consider the analogy of a three-legged stool where the stool cannot stand unless all three legs are stur-

"For the environmental benefits of precision agriculture to take shape, farmers need to generate more yield and at least break even from a financial standpoint," said AEM senior vice president of ag services Curt Blades. "If a farmer is going to change a practice or invest in a new technology, the economic impact of that action has to be part of the conversation. Fortunately, we now have some rather compelling research that makes it a big part of the conversation.

The three USDA sustainability pillars line up perfectly with AEM's newly released research. Environmental Benefits of Precision Ag, co-developed with the American Sovbean Association, CropLife America, and National Corn Growers Association.

The study examined five key areas of the crop farming industry where precision agriculture can make both an environmental and economic impact, and then examined five key areas of PA that can make an impact in those

"Farmers are the original stewards of the land and have been doing good things for a long time," said Blades. "Technology now affords farmers the ability to do even more — things that could never have happened before. A lot of GPS-driven technology is in place, giving farmers a whole new set of tools to help dial in the exact placement of seed, fertilizer and crop protection. This technology also helps farmers close the loop with insightful data that helps them monitor what they are doing to de-

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termine if there is room for improvement going forward.'

#### Key areas of precision agriculture technology

The five primary areas of precision agriculture give farmers numerous opportunities to increase efficiency, reduce operating costs and lessen environmental impact. Precision agriculture can be leveraged across a variety of crop farming applications throughout the year.

Auto Guidance - Also known as auto-steer, this technology utilizes GPS signals to automatically control a tractor to help reduce overlap during tilling, planting, spraying and harvesting. This has a positive impact on both productivity and fuel consumption.

Machine Section Control - Turns planter, fertilizer or sprayer sections on/ off in rows that have been previously treated, or at headland turns, point rows and waterways. This helps optimize the placement of seed, fertilizer and crop protection. This technology also helps optimize down pressure and depth

control to gain machine and fuel efficiencies.

Variable Rate - Uses sensors or preprogrammed maps to determine application rates for seed, fertilizer and crop protection. Supporting technologies include variable rate controllers, GPS, yield monitors, crop sensors and soil sensors.

Fleet Analytics (Telematics) - Real-time monitoring of equipment including GPS location, route suggestions and idling. Any piece of telematics-equipped equipment can be monitored all year long whenever it is in operation. This technology affords an opportunity to increase asset. utilization and reduce fuel

Precision Irrigation -Provides the ability to apply different amounts of water to different areas of the field in order to reduce waste and optimize efficiency.

#### How precision agriculture is making an impact

The study also examines how the above-mentioned precision agriculture technologies can imenvironmental impact.

Productivity farmer can achieve better crop yields from accurate spacing and population rate. Indirect benefits include not having to place unproductive or preserved land into production, as well as reduced soil compaction and improved soil health, which help reduce inputs over time.

Fertilizer - Reduced overlap and better placement optimizes application and reduces waste. Indirect benefits include improved water quality due to reduced runoff. improved soil health and a reduction in net greenhouse gas emission.

Herbicide - As in the case of fertilizer, more efficient herbicide application reduces waste. Indirect benefits are improved soil health, reduced erosion, less weed resistance and reduced greenhouse gas emissions.

Fossil Fuel - When the number of field passes and time spent idling are reduced, so is the amount of fuel consumed. Greenhouse gas emissions are also inherently reduced.

Water - More precise irrigation can save water from evaporation and excessive runoff. An indirect benefit is an improvement in water quality due to the reduced runoff.

#### Positive results and available opportunities

In examining various crop types around the country, the research data can be summed up in one sentence: Crop farmers

pact the five key areas of are doing more with less.

By leveraging precision agriculture technologies. farmers have already accomplished the following:

- 4% increase in crop production
- 7% reduction in fertilizer use
- 9% reduction in her-
- 6% reduction in fossil fuel use
- 4% reduction in water

bicide use

A direct parallel can also be drawn between the environmental benefit of those reductions and the economic benefit.

"That's 6% less fuel on a tractor that is likely running 20 hours a day for a couple weeks straight," said Blades. "That isn't just real money, helping the farmer save thousands of dollars in fuel expenses but has the carbon reduction benefits of taking nearly 200,000 cars off the

The same can be said about the use of fertilizer. herbicide, water use and crop protection. "If you're just spraying the places that need to be sprayed, that's good for the environment and the farmer's net income," said AEM senior director of regulatory affairs Nick Tindall. "Fewer pounds on the ground is a good thing all the way around."

The potential gains resulting from more widespread adoption of precision agriculture technologies is even more impres-

Adoption rates vary

• Cont. on page 7





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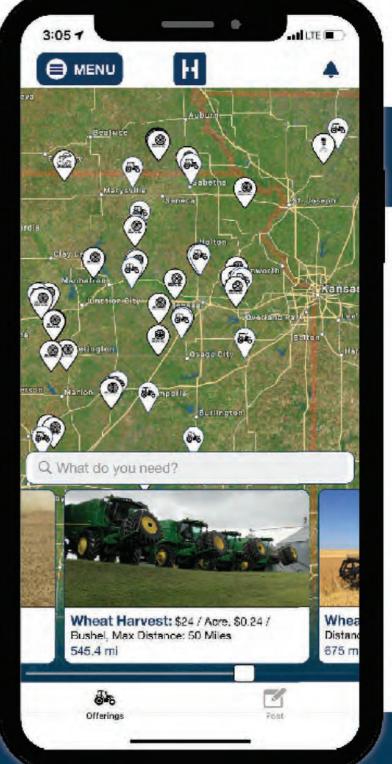
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### **USDA** agency launches new site for science-minded students

Service, is now "open for business" to student and educators alike at https://aglab.ars.

AgLab builds on the past successes of its predecessor, Sci4Kids, in educating students about the critical intersect of science and agriculture in their daily lives, such as wrinkle-free cotton, edible coatings that keep apple slices from turning brown, a low-glycemic sweetener, DEET insecticide, and a bounty of new varieties of fruits and

Geared toward K-12 students with an interest in food and science, AgLab offers a variety of content to promote a greater understanding of how agricultural research is helping meet the food, fiber, feed and fuel needs of a growing world population while also safeguarding our environment and natural resources.

For example, students considering career fields in science, technology, engineering and mathematics (STEM) may be especially interested in AgLab's "20 for 30" offering. It profiles young researchers on the rise at ARS—starting with Jaqueline Serrano, an entomologist who is with the agency's Temperate Tree Fruit and Vegetable Research Unit in Wapato, Washington.

In need of science project ideas? AgLab has you covered with "Let's Get to Work," a page offering a series of instruction-based experiments, including on food fluorescence, vitamin C content and soil erosion.

Other features include:

An interactive map showing what ARS research is under way at locations near you Mobile apps like "FoodData Central," where you can learn about what ingredients are in the food you eat and nutritional info about them

Learn and explore sections that help students discover the wonders of agricultural science

Produced by the ARS Office of Communications in Beltsville, Md., AgLab operates with the recognition that today's students are tomorrow's farmers, scientists, policy makers and consumers. With this latest iteration, the website reaffirms its commitment to making sure kids have access to information about agricultural research in a way that's fun, timely and significant.

Check back often to view new AgLab content, including videos, games, contests, experiments and recipes.

The Agricultural Research Service is the U.S. Department of Agriculture's chief scientific in-house research agency. Daily, ARS focuses on solutions to agricultural problems affecting America. Each dollar invested in agricultural research results in \$17 of economic impact.

#### Do spring safety check on and off the farm

Planting season brings increased risk of physical injury and mental stress among farmworkers and families, says University of Missouri Extension safety and health specialist Karen Funkenbusch

Before heading to the fields, review basic safety lessons with workers and family members, she says

Rural roadway safety

Remind others to share the road, slow down and watch rural roads for slow-moving farm equipment on hills and curves, says Funkenbusch.
Farmers should check equipment for slow-moving vehicle (SMV) emblems and do

a safety check of turn signals and mirrors before driving. Put cell phones down and reduce other distractions.

Discourage children from riding on tractors. They can fall off or become injured in power takeoff accidents.

If there are children on the farm, make a habit of walking around equipment before starting the tractor, she says. Avoid loose-fitting clothing and tie back long hair to avoid PTO tragedies.

See Show-Me Farm Safety for more guidelines at farmsafety.mo.gov/farm-equipment/tractor-safety.

Animal safety

The National Ag Safety Database reports that the number of farm injuries involving animals ranks second only to machinery accidents.

Animals may look friendly but can easily feel spooked or threatened when approached by people who are not their usual caretakers. Train visitors to respect the animals and be alert around livestock.

For more information on animal safety, visit the National Ag Safety Database at nasdonline.org/search.php?query=animal+safety.

#### ATV safety

Many farm families own and operate all-terrain vehicles for work and fun, but ATVs are powerful and potentially dangerous vehicles.

Review owners manual rules and adhere to age and legal requirements. Follow recommendations on weight limits, number of riders and safety equipment such as helmets, eye protection and clothing. Find more information at www.atvsafety.gov. **Chemicals** 

Train family members and workers to use proper personal protective equipment when working around herbicides, pesticides and fertilizers. Thoroughly read, understand and follow label instructions. Store chemicals in original containers and keep children away from them. Know the telephone number of your local poison control center or the National Poison Control Center, 1-800-222-1222.

Stress less, sleep more Many accidents result from stress or lack of sleep. Equipment breakdowns, untimely rains and long hours can cause short-term stress that can reduce reaction times and prompt people to take shortcuts that lead to accidents.

According to the Centers for Disease Control and Prevention, adults need seven to nine hours of quality sleep daily. MU Extension offers mental health resources through Iowa Concern, a 24-hour

hotline that provides access to free stress counseling and other resources. Call 800-447-1985 or visit www.extension.iastate.edu/iowaconcern.

to leverage these technol-

ogies to sustainably and

# he era of precision agriculture has arrived

• Cont. from page 6

widely depending on the technology, between 10% to 60%. Raising the adoption rate to the 90% range is expected to result in:

- 6% increase in crop production
- 14% reduction in fertilizer use
- 15% reduction in herbicide use
- 16% reduction in fossil fuel use
- 21% reduction in water use

To further illustrate the potential impact of more widespread precision agriculture adoption, consider the following: Current adoption has resulted in roughly 30 million fewer pounds of herbicide being applied. With broader adoption, another 48 million pounds could be spared.

To understand where precision agriculture adoption could be headed - and how quickly — it's important to understand how far it has come already.

"Precision agriculture has been talked about for many years," said Blades. "Any kind of technology adoption must have a compelling reason for the person adopting it. Precision agriculture began making serious inroads when machine guidance and auto-steer came along. Those were technologies that made it easier for farmers to see the benefits."

As more farmers adopted machine guidance, they began to see how technology in general could help drive results in other

"The adoption rate has been on a steady increase over the past 20 years," Blades pointed out. "Precision agriculture has become almost ubiquitous for anyone trying to drive income from their land. Most equipment today has some sort of this technology. That in and of itself leads to broader adoption."

"Seeing the gains that are inherent with more widespread adoption isn't just a matter of convincing more farmers to adopt PA technology," Tindall added. "It is also about the continued refinement of these technologies. For instance, auto steer has been around since the 1990s, but is far better today than it was back then.'

One obstacle to increased adoption could tie back to the broader agriculture economy and the farmer's financial fortune. Depressed commodity prices strain net income, which strains investments and the adoption of new technologies.

"The biggest factor going forward is whether or not farmers have money

to invest," Tindall said. However, with commodity prices currently being stronger than they have been in years, now is a good time for farmers to invest in precision agriculture technology, so when leaner times arrive, their operations will be more financially resilient.

To leverage GPS-driven precision agriculture technologies, farmers also need an adequate level of infrastructure available in rural America. The expansion of broadband internet capability must have a strong wireless component that is accessible by machinery in the field.

#### Precision agriculture is the foundation for a stronger future

It's important to note that precision agriculture technology adoption is not solely about the immediate benefits of reduced fuel, fertilizer, herbicide or water use. It is also about evolving the U.S. agriculture industry to a more productive, competitive and sustainable state.

"Every farmer knows in their heart of hearts that they are trying to do the right things, like protect the soil," said Blades. "Farmers are not just doing these things for the next season; they are doing them for the next generation. Thanks to technology, there are additional tools available today that can help farmers achieve a goal they have always had: provide good food, energy and fiber to the public around the world. The beautiful thing about this new technology is that it doesn't force a choice between environment over economics, or vice versa. With today's precision agriculture technology, farmers can choose both.'

now," Tindall said. "If today's American farmer wants to continue thriving, it's important to become more efficient. Technology plays directly into that. Precision agriculture technology that delivers both an environmental and economic benefit helps a farmer become more competitive in the international market.

Plus, with a strong sustainability message, it actually helps a farmer maintain access to certain markets.

"Take the European Union, for example," Tindall continued. "Sustainability is very important to that market. Additionally, becoming more efficient and productive can help keep food prices down. There is no greater threat to the environment

#### PUBLIC AUCTION REMINDER

**SATURDAY, MAY 8, 2021 - 10:00 AM** 3.9 mi. North of AUBURN, KANSAS On Auburn Rd. (across the Rd from 5741 Topeka, KS.)

TRACTORS, MACHINERY & MISC. Short auction be on time. Drinks only. All items shedded.

THOMAS GAIL KINGSLEY Sr. Farm Auction

See last week's Grass & Grain for Listings & go to websites for pics! www.kansasauctions.net/edgecomb or www.Kansasauctioneers.com EDGECOMB AUCTIONS: 785-594-3507 (Evenings); 785-766-6074 (Cell)

**SATURDAY, MAY 8, 2021 - 10:00 AM** 

AUCTION LOCATION: 211 W. 9th, PEABODY, KS 66866 **Property of NORM & JUDY CLAASSEN** 

CAR TRAILER, MOWERS, TILLER, CAR PORT & GENERATOR (Sell @ Noon): Craftsman 850 Series Rear Tine Tiller; Toro 50 Zero Turn Mower; Briggs & Stratton XR2100 7000 watts Generator Tandem Axle Car Trailer 16'x7'; Car Port 16'x12'; Cub Cadet ST100 Wheeled Trimmer; **TOOLS:** Craftsman 10" Table Saw; CP 26-Ga Air Compressor; Air Hose & Reel; 10 Drawer 2-Piece Tool Box; Makita Disc Grinder; Ryobi Biscuit Jointer; Bar Clamps; Crafts man Reciprocating Saw; Shop King 14" Chop Saw; Drill Press 12 Speed; Craftsman Shop Vac; Ryobi Plunge Router; Central Ma chinery Belt/Disc Sander; 6" Bench Grinder on Stand; Craftsmar & Pittsburg Wrench Sets Standard; Stanley 3/8" Deep & Shallov ockets; Many Misc Hand Tools, Sockets & Air Tools; ANTIQUES/ HOUSEHOLD: Kenmore Side-by-side Refrigerator; Frigidaire Flat top Electric Stove; China Hutch; Set Japan Flowered China; Cas Iron x9 (Jim Beam Skillet x2, Dutch Oven x4, Lodge Skillet x3); Oil Lamp; Oak Secretary; Set of Dining Room Chairs; **MORE MISC ITEMS**; Pull Behind BBQ Smoker on wheels; many more items!

This is only a partial listing. See website for full listing, terms & photos at GriffinRealEstateAuction.com

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#### JERRY LYONS ESTATE FARM AUCTION SATURDAY, MAY 8, 2021 \* 11:00 AM

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Location: 1847 S Simpson Rd, SALINA, KS. Follow auction signs

See last week's Grass & Grain for Listings &

View sale bill: KansasAuctions.net/bacon

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The following Machinery & Equipment from the Estate of Jerry Lyons will be sold at Public Auction at the farm on 1950 Hiway 31, FULTON, KS. WATCH FOR SIGNS. SHORT AUCTION\*\*\*BE ON TIME

Auction begins with Antiques Lawn & Garden at 11:00 AM Simulcast & Live Onsite Bidding on 10 Lots begins at NOON followed by remaining Shop, Tools, Farm & Miscellaneous. 2% buyer premium on online purchases only. Online bidders need to Pre-Register for bidding approval at equipmentfacts.com

ANTIQUES, LAWN & GARDEN at 11:00 AM ANTIQUES: Garden Push Plow; Milk Can; Childs Sled; Deer Sheds; Military Trunk; Morton Buildings Advertising Clock; Block Pulley. **LAWN & GARDEN:** Pick, hoe, rake, shovel & other garden hand tools; pitchfork; maul; gas cans; wheelbarrow; backpack sprayer; aluminum scoop shovel; fiberglass 6' step ladder; 3 push lawn mowers, garden pull cart.

















1. 2008 JD 7330 PREMIUM TRACTOR: Premium 20 spd Power Quad like new Tractor, "only 434.7 hrs." (have Service Record since new), 540/1000 PTO, Buddy Seat, non DEF, 4 suitcase wts, new batteries, 6 cyl. eng, 3 rear remotes, 18.4 R42 Radials, Showroom clean. **2. 2013 JD 6125 R TRACTOR:** 16 spd Power Quad trans. Tractor, only "139.2 hrs.", Buddy Seat, Rack & Pinion axles 540/1000 PTO 4 cyl. 125 HP eng, 3 rear remotes, 18.4 R38 Radials, Showroom clean. 3. 1993 FORD 5030 TRACTOR: Ford Diesel with only 780 hrs., 8 spd. Transmission with Roll Bar (open station) and Front Śuitcase Weights. Very good condition

4. 2019 TOYOTA PICKUP: 2019 Toyota Tacoma SR, 4X4 with Extended Access Cab, white 4 door, (open front doors to access rear doors), 3.5L, V6 6 spd. Auto trans 4W Demand, Power Windows, dent behind lower right rear fender wheel well, only 45,920 mi.

5. LAND PRIDE ROTARY MOWER: Showroom Condition Land Pride

RC2512, 12 ft. double-fold Batwing Mower, 540 PTO, has mowed approx. 50 acres, stored inside always

6. WOODS SINGLE FOLD BATWING MOWER: 2010 like new 13 1/2" Woods single right wing fold Batwing Mower Extreme, 540 PTO, cuts brush up to 4" diameter, Mod. BW1620X, Heavy Duty.

7. GREAT PLAINS DRILL: Great Plains Solid Stand 1300, 13', 71/2' spacing, 21 hole, like new Grain Drill (CC1799 serial#), "only 69 acres". **8. KEWANEE 16' DISC:** 16' Kewanee Mod. 775 tandem Disc, 21 ½'

9. BRILLION FIELD CULTIVATOR: 16' Brillion Field Commander

Field Cultivator with Harrow, (very few acres).

10. CASE FIELD CHISEL: Case 3 pt., 9 shank Chisel.

\*REMAINING ITEMS WILL BE SOLD AFTER SIMULCAST SHOP & TOOLS: Grease guns; tire tools; wrenches; assortment of nuts, bolts & washers; 3 air compressors inc: small Puma & Campbell Hausefeld & more; end wrenches; crescents; sockets; breakovers; barrel pumps; ext. cords; jumper cables; battery charger; levels; hammers; vise; grease gun cartridges; hitch pins; draw bars; receiver hitch; hyd. cylinders

2/hoses; 3 full cases of Conoco 10W-30 oil; gas cans; slow signs & more. JD PLOW: John Deere 45, 3 bottom 3 pt. Plow (Ser.#102767) SMALL CHISEL: Light duty 8' 3 pt. Chisel. BLADE: 3 pt. 6' Blade. SCOOP: 3 pt. 706 Ford Slip.

HAY WAGON: 4 wheel Farm Wagon, good floor and running gears. FUEL TANKS: (2) 500 gal. Fuel Tanks on Stand, one gas, one diesel MISC.: Multi-speed bicycles; rod & reels; dip net; Crosley Conservator refrigerator; partial roll of Gaucho barb wire; steel post clips, lick tubs & more. AUCTIONEERS NOTE: The Lyons are missed from the Fulton Community. Jerry was well known for his special attention and care of his Machinery. He built several enclosed buildings to

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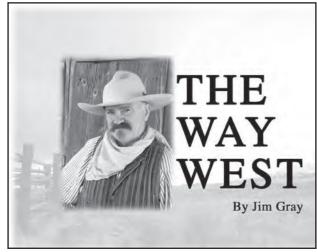
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#### Celebrating Caldwell

One hundred fifty years ago in January, 1871, Charles H. Stone, G. W. Smith, and an unnamed companion left Wichita with plans to survey a brand-new town on the southern border of Kansas. Their route was the well-used Chisholm Trail. The famous trail had already seen hundreds of thousands of cattle pass along its route as well as wagons carrying supplies for the reservations and military posts in Indian Territory. Soldiers, Indians, cattlemen, and traders traveled back and forth

regularly. Former army scout John E. "Curly" Marshall had already built a double log cabin between the trail crossings for Bluff Creek and Fall Creek. He named the place "First Chance-Last Chance." Thirsty

drovers could get their first drink of liquor when coming from the Territory where liquor was prohibited by U.S. law. Conversely, it was the last chance to buy a drink before crossing into the territory.

Stone was well aware of Curly Marshall's venture. But Stone envisioned the much larger prospect of a thriving city. The townsite was laid out on an elevation about a mile north of the First Chance-Last Chance. Chisholm Street was named to honor the famous trail that had given birth to the town. Stone's survey party returned to Wichita and began to promote Caldwell, named after newly elected U.S. senator Alexander Caldwell, who incidentally was influential with railroad interests.

A log cabin was con-

structed in May to serve as a supply house for passing drovers. With wholesale liquor dealer James Dagner as Stone's partner the business was described as "a grocery store, with liquid groceries predominating." Stone's first sale turned out to be to the Sixth Cavalry on their way to Fort Riley. They camped near Caldwell and purchased over seven hundred dollars in provisions.

Of course the drovers were not far behind. Four hundred seventy-five thousand head of cattle passed through Caldwell by November. 1871 saw a total of six hundred thousand head arrive at the northern railheads. Each vear the town grew, and with its growth wild times made wearing a badge in Caldwell a dangerous profession. From 1879 to 1885 sixteen men occupied the marshal's office. Five of them died violently, often after they had served as marshal. Three more who had served as deputies found a bullet waiting to end their lives.

The most famous of Caldwell marshals whose life was cut short at an early age was Henry Newton Brown. Brown was originally hired as a deputy under Marshal B.P. "Bat" Carr. Carr. a Texan. took the job on July 27, 1882, after Marshal George Brown was murdered by a Texas cowboy. Henry Brown was hired on Carr's recommendation, having known Brown as a deputy sheriff of Oldham County, Texas. Early resident George Freeman recalled that Henry Brown "...was similar in character to

Carr, with the exception that he seldom smiled, was sober, candid, and determined in expression and mind... He dressed neatly, was gentlemanly, and won friends immediately upon his arrival in Caldwell."

Marshal Carr and deputy Brown were constantly on the alert for trouble and soon gained a reputation for efficiently keeping the peace. Carr was only on the job for six months when he left in November to marry his Texas sweetheart. Henry Brown was elevated to city marshal and another Texan, Ben Wheeler was appointed assistant marshal.

Brown performed so effectively at keeping the peace that the city of Caldwell presented him with a new rifle on New Year's Day, January 1, 1883. "On the stock of the gun is a handsome silver plate bearing the inscriptions 'Presented to City Marshal H. N. Brown for valuable services rendered the citizens of Caldwell, Kansas." Henry settled in with an air of permanency. Nearly seventeen months after taking office on March 25, 1884, he married pretty Maude Levagood, a refined young Caldwell school

teacher. No one in Caldwell could have imagined what would happen next. The news hit the cattle town like a bombshell! Everyone thought that Brown and Wheeler had left town on April 27th to apprehend a murderer in Indian Territory. Unbelievably, the town learned on May 1, 1884 the shocking news that Marshal Brown, Wheeler, and two cowboys, Billy

Smith and John Wesley, had robbed the Medicine Valley Bank at Medicine Lodge. Bank clerk George Geppert was killed, and the bank president Wylie Payne was dying. Brown was shot trying to escape, and the other men hung by an armed mob!

There was more. Not until after his death did Caldwell's citizens learn that their honored Marshal Brown was the outlaw Henry Brown who had ridden beside Billy the Kid in New Mexico! Brown's young wife claimed his body. She supposedly buried her husband at Caldwell, but to add mystery

to the story there is no record of the burial. And so ended one of the most puzzling chapters in Caldwell's turbulent past.

The Border Queen will live again as Caldwell celebrates one hundred fifty years of wild times. Join us in Caldwell May 7th and 8th, for two days on The Way West.

"The Cowboy," Jim Gray is author of the book Desperate Seed: Ellsworth Kansas on the Violent Frontier, Ellsworth, KS. Contact Kansas Cowboy, 220 21st RD Geneseo, KS. Phone 785-531-2058 or kansascowboy@ kans com.

#### **KDA** announces Specialty **Crop Grant opportunity**

The Kansas Department of Agriculture is accepting applications for the 2021 Specialty Crop Block Grant Program. Funds for the program are awarded to the agency by the U.S. Department of Agriculture's Agricultural Marketing Service.

The funds are in turn granted to projects and organizations to enhance the competitiveness of specialty crops by leveraging efforts to market and promote specialty crops; assisting producers with research and development relevant to specialty crops; expanding availability and access to specialty crops; and addressing local, regional and national challenges confronting specialty crop producers. Specialty crops are defined by the USDA as "fruits, vegetables, tree nuts, dried fruits, horticulture and nursery crops, including floriculture."

Applications will be evaluated by a team of external reviewers. The team will rate proposals on their ability to successfully promote specialty crops in Kansas and make a positive impact on the Kansas economy. Those recommendations will be submitted to the Kansas Secretary of Agriculture, who will make the final awards. In 2021. Kansas has been allocated more than \$338,000 for this program.

Applications are due to KDA no later than 5:00 p.m. Central on May 21, 2021. For more information, including the Request for Application form and additional guidance about the grant program and the grant application process, go to the KDA website at: agriculture.ks.gov/ specialtycrop.

The vision of the Kansas Department of Agriculture is to provide an ideal environment for long-term, sustainable agricultural prosperity and statewide economic growth. The agency will achieve this by advocating for sectors at all levels and providing industry outreach.

TUESDAY, MAY 25, 2021 \* 6:00 PM

AUCTION LOCATION: 1310 17th Street - WAMEGO, KANSAS

OPEN HOUSE: SUNDAY, MAY 16 \* 1-3 PM

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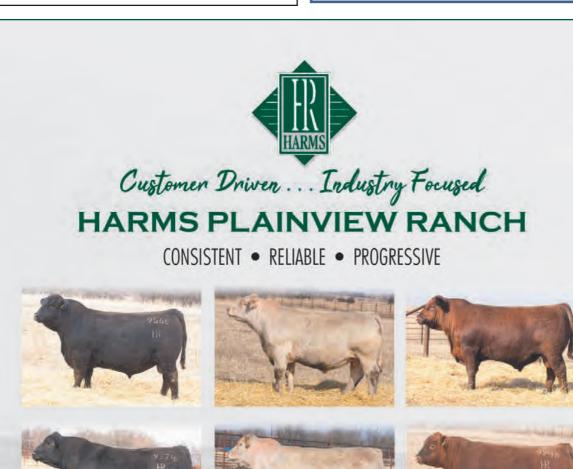
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# AUCTION

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SATURDAY, MAY 15, 2021 — 9:00 AM Offering for sale at Public Auction, located at 2162 Frontier Rd., GALVA, KS. From Galva, KS & Hwy. 56 1 mile east, 3 miles south & 1/2 mile west.

TRACTORS & FARM MACHINERY

2001 JD 5410 FWA diesel tractor, JD 541 loader & grapple, 3 pt., pto, triple hyd., 2270 hrs. clean; 1974 JD 6030 diesel tractor, dual hyd., pto, cab; 1974 JD 830 3 cyl. diesel tractor, 3 pt., pto, hyd.; Ford 801 Powermaster diesel tractor, 3 pt., pto; 1963 JD 4010 diesel tractor, JD 720 loader; 1954 JD 60 tractor, less than 500 hrs. on overhaul; 1959 JD 830 diesel tractor, hyd. pto; 1959 JD 730 diesel tractor, 3 pt., pto, hyd.; 1949 JD B tractor w/JD 7 sickle mower, pto, tractor, 3 pt., pto, hyd.; 1949 JD B tractor w/JD 7' sickle mower, pto, hyd.; 1950 JD G WF tractor, hyd., pto; IH Farmall M NF tractor, pto; 1948 JD A tractor, hyd., pto; 1946 JD D tractor; 1944 JD A tractor, pto; 1939 JD H tractor, pto; JD 112 hyd. lift riding mower; JD 112 L hydrostatic riding mower; 1941 Ford 3/4 ton pickup, flathead V-8 eng.; 1966 Kawasaki Aircraft 125 motorcycle; 1981 Honda 200 3 wheeler; JD 235 20' disc; JD #400 20' rotary hoe on carrier; JD folding springtooth; Krause 17 shank chisel; Hillsboro Fieldmaster 26' springtooth; Hesston 1014 hydra-swing swather; implement trailer; JD 16 shank chisel; 3 pt. harrow; JD 235 20' single fold disc; flare side wagons; JD 45 loaders; NH #56 side del. rake; Dempster 2 row cultivator; 3 pt. track scratcher; dbl. drill hitch; Graber 20 shank dbl. wing fold chisel; AC 782 field cutter w/pickup; JD 6 sec. drag springtooth; JD 3800 field cutter w/2 row head; H & S 12 wheel rake; Schuler 175B feed wagon; HD #55 side del. rake; King Kutter 6' 3 pt. finish mower; IHC 4500 25' field cultivator; JD 5-18 semi-mt. plow; JD Schuler 175B feed wagon; HD #55 side del. rake; King Kutter 6' 3 pt. finish mower; IHC 4500 25' field cultivator; JD 5-18 semi-mt. plow; JD 5-16 semi-mt. plow; 2-JD 4-16 semi-mt. plows; 3-JD 5-16 pull plows; 6-JD 4-16 pull plows; JD 3100 6-16 pull plows; 2-JD 3100 4-16 plows w/dbl. hitch; JD steel wheel drill; Gehl feed wagon; JD 3-14 hyd. plow; 2-JD 3-16 trip & hyd. plows; 2 row lister; JD 14' tandem disc; JD cultivators; Woods 3 pt. rotary mower; 2-JD sickle mowers; 2-AC silage blowers; Papac silage blower; JD FBB 8-16 drill; 4-wheel trailer frame; Ford 3 pt. gin pole; 2-3 pt. post hole diggers; Hutchinson 6x41 pto auger; tandem axle implement trailer; drag springtooth; Krause 13 shank chisel; IHC #10 8-20 drill; pony cart; & more.

GUNS, FARM RELATED & HOUSEHOLD ITEMS

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Excel 12 ga. single shot shotgun; J.C. Higgins 12 ga. bolt action shotgun; RWE 12 ga. bolt action shotgun; Brazil 12 ga. single shot shotgun; Crossman 630 BB gun; 3-Daisy BB guns; Craftsman table saw; welding table; pedestal grinder; JD A150 space heater; Knipco space heater; MTD tiller; fuel tanks; alum. irrigation pipe; Dura-Craft belt & drum sander; wheelbarrows; 3/4" socket set; combination wrenches; toolboxes; organizers; scroll saw; shop vac; new JD seat; old Maytag eng.; generator; ladders; Makita set of cordless tools in box; shovels; rakes; tires & wheels; tractor parts; hyd. cyl.; corn sheller; McCormick cream separator; hardware; bolt cutters; chain-saws; line trimmers; self feeders; log chains; boomers; Coleman lansaws, life timilers, self-recets, log criains, bootenes, colernarial-tern; pitcher pump; old scales; crocks; filler cans; cast iron skillets; enamel; sled; wall telephone; old toolbox; National cash register; post drill; metal seats; wash tubs; coaster wagon; pens & pencils; round oak stove; JD 7410 pedal tractor & trailer; wardrobe; cream cans; ice cream freezer; chest-of-drawers; wooden bench; tables & chairs; books; metal toys; pocket knives; glassware; games & toys; puzzles; pots & pans; pictures; porch swing; baking dishes; & more.

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Schmidt Clerks & Cashiers \* Lunch Provided by: Lone Tree Youth Group TERMS: Cash day of sale. Statements made day of sale take precedence over advertised statements.

# Rock Creek High School competes in Regional Envirothon, qualifies for State

Rock Creek High School competed in the first virtual Regional Envirothon on April 14, 2021.

The county teams are sponsored by the Pottawatomie County Conservation District. The Envirothon is an environmental high school educational competition that is organized and coordinated by numerous Conservation Districts.

Students train and test in the topics of: Soils/Land Use, Forestry, Wildlife, Aquatics Ecology and a Current Environmental Issue. The current issue for this year is "Water Resource Management: Local Control and Local Solutions." Students studied information and viewed five video presentations prior to this regional contest. Twenty teams competed in the contest and Rock Creek High School, who had two teams compete, placed fifth and 14th. The team from Manhattan High School took the top honors, Madison High School placed second and Mission Valley High School received place.

Rock Creek High School is advised by David Holliday. The highest scoring team from each school qualified to compete in the 30th Annual Kansas Envirothon held virtually on April 28, 2021

# **Kansas Beef Council** releases new cattle handling video The Kansas Beef Council (KBC) has released a new

video that showcases how beef producers can greatly improve cattle handling by making small, economical changes to their working facilities. The free video, which is part of a series of educational programs that focus on Beef Quality Assurance (BQA) principles, is available at the newly created Kansas Beef Producers Hub and can be found on www.KansasBeef.org.

Titled "Low-Cost, High-Impact Cattle Facility Tips," the video features Dr. A.J. Tarpoff, Kansas State University Extension beef veterinarian, who visits two real-world facilities to showcase the practical advantages brought about by simple upgrades. He also discusses with the ranchers who own the facilities how the improvements have positively impacted their

'Strategies offered within the video will work on both small and large cattle operations," says John Sachse, KBC director of industry relations. "Kansas beef farmers and ranchers are committed to looking for new ways to improve their operations. BQA-focused trainings like this help ensure farmers and ranchers continue to produce a safe and wholesome product the consumer trusts.'



Ben Wick, Conner Walker, Seth Figge, Charlie Killingsworth, and Brendan Smith qualified to compete at the State Envirothon.



Tucker Gibbs, Justin Gerber, Cody Louquet, Lucas Bergren and JT Ross also competed for Rock Creek.

Spring is great time to plan projects, says 4-H official

For many Kansas 4-H members, the year is chock-full of activity, from summer camps and fairs to fall projects and state contests.

So, 4-H youth development specialist Beth Hinshaw said spring is a great time to breathe... and think.

There are some great opportunities this spring to plan for upcoming project work," said Hinshaw, who is in the southeast region. "Our suggestion is to research your project, or review available curriculum and resources. Another option might be in-person field trips if it's safe, or virtual field trips.'

The Kansas 4-H program offers 35 project areas for youth to participate in. Hinshaw said Kansas 4-H staff have developed spark pages for nearly all of those projects, helping youth with ideas on things to explore, learn, practice or experience.

Hinshaw noted that the content is appropriate for beginning, intermediate and advanced project members. The spark pages also list resources and events that might be available, including curriculum, record-keeping and project exhibit ideas.

We also have some project challenges, which provide young people an introductory activity in several project areas." Hinshaw said.

"One of the things we talk about with 4-H projects is the idea of the project pathway. We are interested in what creates a spark for young people; that is, something that they're very interested in. Then, we help them gain knowledge and mastery of the subject as they continue in the project.'

She noted that completing a project helps youth build career skills, whether they pursue a career in the given subject area or not, because many skills are transferable.

We think it's great for young people to start seeing the possibilities in those project areas. That deeper learning might spark them toward a career," she said.

More information about Kansas 4-H and project areas is available online at www.Kansas4-H.org. Interested persons may also contact their local K-State Research and Extension agent.

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SATURDAY, MAY 15, 2021 — 10:00 AM
AUCTION LOCATION: 1136 US Hwy. 136 — RED CLOUD, NE 68970
SHED TO BE MOVED: 12'x16'x10' Tall Utility Shed. MOWER, ETC.: Cub Cadet LT 1046 46" Cut Riding Mower; 2 Wheel Yard Cart. **TOOLS inc.** Cadet LI 1046 46" Cut Riding Mower; 2 Wheel Yard Cart. 100LS Inc.: Pitch Forks; Wire Stretchers; Ladders; Yard Fertilizer; Handyman Jacks, sm. Organizers; Shop Vacs; Planes; Wood Finishing Supplies; C-clamps Coleman Fold Up Table; 2 whl Dolly Cart; Saws; Sanders; Drills; Hand Tools; Bench Vise; Grinder; Allen Wrenches; Post Hole Digger; B&D Miter Saw; Work Stand; Anvil; Stanley Mobile Work Center Box; Fishing Poles & more. ANTIQUE FURNITURE: Single Iron Bed; High Boy Chest of Drawers; Bustle Chair; Oval Parlor Table w/Drawer; Nice Oak Wardrobe; (2) Sewing Stands; Press back Chairs; Round Oak Table w/2 Leaves; Wood High Čhair; Niće White Clad Oak Ice Box; Sq. Oak Table w/2 Leaves Smoking Stand; Nice Oak Hall Tree w/Mirror; Ohio Chair Co. Twig Styl Rocker; 46" Oak S Roll Top Desk; 3 Metal Yard Chairs; Metal Kitcher Utility Cart; Fancy Rocking Chair; Enamel Top Tables; Small Pew; Child's Hop a Long Cassidy Rocker Chair; Trunks & More. ANTIQUES-PRIMI TIVES-COLLECTIBLES: Wooden & Iron Wagon Wheels; CI Hinge pc. Blue Bottles; Guernsey Milk Bottle; Architectural pcs.; Galv. Buckets & Tubs; Spurs; Wiley Hubcap; Silverware; Saddles (1 Heiser); 4 Stirrup Sets Chaps; Bridle; 1912 Webster Co. Argus; Wooden Pulley; Federal-Mogu Cabinet; Fairbury Pump; Lanterns; Horse Collar Mirror w/Hanes (US Hanes Co); Old Car Light; Adv. Match Safes; Boot Jacks (Naughty Nelly, Steer, & Santepede); Horse Clock; 1909 CM Russell Picture; Pocke Knives; Unusual Tub; Horn Art Lamp; Cl John Wright Water Kettle; Lots of Grey Enamelware CI Taylor's Iron; CI Horse Tie Down; Coffee Grinder Turkey Foot Balance Scale; Prison Ball; CI Horse Figurine; Star Cut Crys tal Cruet; Stromberg Carlson Oak Wall Telephone; Globe; Elephant Pitch er; Tins; Disney Swanky Swig Glasses; Fire King Bowls, Greaser & S&P Set & Other Fire King pcs.; Wullbrandt Adv. Plate (Red Cloud); Horlicks Jar; Pyrex Bowls; Waffle Coffee Jars; elec. Aladdin Lamp; Whimsey Dolls lorse Print W Crary Mercantile Co. (Guide Rock, Ne): Old Ev es; Old Trusty Wood Incubator; John Wayne Watch Fob; Fancy Jewelry (some marked); Cabbage Rose & Opalescent Glassware; CI Lamp Brack et; Spirited Horse & Other Horse Pictures; Francis Tipton Hunter Picture Can U Talk Picture; 1894 Amitinker Dog/Rabbit Picture; Cuckoo Clock Bridge Lamp; Henry Tenr'e "The Introduction" Picture; 15 & 25 gal. Hang ing CI Pots w/Stands; Saddle Tree w/CI Sewing Machine Base; Laughlir ina & MORE! YARD ART PCS., CI STOVES & COOKERS, MISC HOUSEHOLD & OTHER ITEMS!

Please go to our website For Full Listing! www.woltersauctionandre.com Sale Conducted by: WOLTERS AUCTION & REALTY 627 Market St., Box 68 • Portis, KS 67474 • 866-346-2071 Cols. Jim Wolters, Broker & Auctioneer Phone 785-346-2071: Cell 785-545-7097 Email: wauction@ruraltel.net • Website: www.woltersauctionandre.com

Kids Corner

The next Kid's Corner page will appear in the June 1st, 2021 edition!

### May is Beef Month!

#### **Beef Up Your Addition** 4+1 3+3 5+1 2+3 8+0 7 + 14+4 1+7 1+7 5+3 7+8 2+3+9 5+5+4 5+13 8+8 7+11 9+6 10+5+4 3+3+10 15+5 10+10 6+3 12+8 12+7 12+5 13+4 14+6 9+8 Identify the Cattle Breed

INSTRUCTIONS: Solve the math problems. Then, using the key, color the picture. Identify the Cattle Breed you colored by reading the Cattle Breed Facts.

**Yellow** = 7; **Light Blue** = 8; **Light Green** = 5, 6, 9, or 17; **Reddish-Brown** = 13; **Dark Green** = 15 or 18; **Pink** = 3; White = 12; Black = 14, 16,19,or 20; Brown = 10 or 11; Tan = 4

#### **CATTLE BREED FACTS:**

ANGUS cattle originated in Scotland and can be solid black or red. Angus cattle are polled, meaning they don't have horns. HEREFORD cattle originated in England and are reddish-brown with all white faces. They also have white on their chest, belly, and legs. Hereford cattle have horns. Polled Hereford cattle do not.

CHAROLAIS cattle originated in France & are white or light tan in color. Charolais have horns, so are dehorned at a young age. SIMMENTAL cattle originated in Switzerland and are usually reddish-brown with some white markings. Simmental cattle are among the oldest and most widely distributed breeds in the world.

GELBVIEH cattle originated in Bavaria, in Southern Germany. Gelbvieh cattle are reddish-brown and were not introduced into the U.S. until the 1970's. LearnAboutAg.org

# Need an extra copy of

Pick one up at any of our Box locations:



#### Dara's Fast Lane:

- 5321 Tuttle Creek Blvd, Manhattan. KS -
  - 8811 US-24.
  - Manhattan, KS -
  - 1132 Pillsbury Dr., Manhattan, KS -

#### The Store:

- 104 E Barton Rd., Leonardville. KS -

Copies are also available at these businesses:

Bluestem Farm & Ranch:

- 2611 W. Hwy 50, **Emporia. KS -**

Pioneer Farm & Ranch: - 427 NE 14th Abilene. KS -

Or Stop by the Grass & Grain Office:

-1531 Yuma St., Manhattan, KS -

Office Hours: Monday-Friday, 8am-5pm



Spring is in the air (as well as prodigious amounts of pollen). Along with spring comes change.

sweeping out the old and ushering in the new. That's exactly what we've been doing at Around Kansas.

One wonderful change is that my friend Michelle Martin is joining me as a permanent co-host. Thank goodness, because she will do all the hard work and I can bask in the glories of a job well done.

Next, we have come to terms with the digital age and have decided that we don't want one morning a week with you. We want you to be able to join us Around Kansas at your convenience. With that in mind, we are now ON DE-MAND!

Listen to us through your podcast app, on You-Tube, Facebook, or the Farming Unlimited website, AroundKansas.com we're everywhere!!

The digital age has dragged many us kicking and screaming across the millennial dateline. I love some things about technology, the internet, and social media. I love being able to stay in contact with family and friends and making new ones. I love being able to join presentations, and to offer them,

over Zoom with friends and colleagues around the globe (I just don't like being limited to them). And I love being able to watch or listen to shows any time I like!

My schedule is ridiculous. Almost no two days are the same. I am grateful for the variety but it makes some things very difficult. like catching programs at a particular time. Increasingly, our viewers were watching online. It only made sense to transition completely to that format.

The other good news about this transition is that time is unlimited in cyberspace. Infinite! I can talk as long as I want!!! (Okay, maybe that is also the downside).

See you somewhere Around Kansas, any time you want!

Deb Goodrich is the cohost of Around Kansas and the Garvey Texas Historian in Residence at the Fort Wallace Museum. She chairs the Santa Fe Trail 200 and can be reached at author.debgoodrich@gmail.com.

#### Sen. Marshall announces over \$4 million in DOI funding for Kansas Wetland Conservation

U.S. Sen. Roger Marshall, M.D. has announced the Department of the Interior's U.S. Fish and Wildlife Service has awarded Ducks Unlimited with a \$2 million grant and \$2.03 million match in funding to conserve bird populations and wetlands in Kansas.

"Kansas has some of the most magnificent wildlife and wetlands in the

country, and conservation efforts must be a priority in our great state," said Marshall. "I want to leave our world better than we found it and by improving habitats and our environment, we not only care for our wetlands and wildlife. but provide better outdoor recreation opportunities for everyone. These dollars are an important part of the Department

of Interior's conservation efforts so the next generation of Kansans can experience the great outdoors.'

Background: The U.S. Fish and Wildlife Service's Migratory Bird Conservation Commission approved this year's grants under the North American Wetlands Conservation Act (NAWCA).

Ducks Unlimited received a \$2 million award and a \$2.03 million match in funding for conservation efforts on 4.162 acres across Kansas. These efforts will take place in the following counties: Allen, Anderson, Atchison, Barber, Barton, Bourbon, Greeley, Greenwood, Hamilton, Harper, Harvey, Haskell, Hodgeman, Jackson, Jefferson, Jewell, Johnson, Kearny,

Kingman, Kiowa, Labette, Lane, Leavenworth, Lincoln, Linn, Logan, Lyon, McPherson, Marion, Marshall, Meade, Miami, Mitchell, Montgomery, Morris, Morton, Nemaha, Neosho, Ness, Norton, Osage, Osborne, Ottawa, Pawnee, Phillips, Pottawatomie, Pratt, Rawlins, Reno, Republic, Rice, Riley, Rooks, Rush, Russell, Saline, Scott, Sedgwick, Seward, Shawnee. Sheridan. Sherman. Smith, Stafford, Stanton, Stevens, Sumner, Thomas, Trego, Wabaunsee, Wallace, Washington, Wichita, Wilson, Woodson, and Wvandotte counties.

NAWCA grants conserve bird populations and wetland habitat while supporting local economies and outdoor recreational opportunities. such as hunting, fishing and birdwatching. Partners in NAWCA projects include private landowners, states, local governments, conservation organizations, sportsmen's groups, Tribes, land trusts and corporations.

#### AUCTION

SATURDAY, MAY 8, 2021 — 10:00 AM Offering for sale at Public Auction, located at the intersection of 22nd & Arapaho Rd., MOUNDRIDGE, KS from the 4-way stop in Moundridge, KS 1 mile south.

WOODWORKING EQUIPMENT, SHOP TOOLS & HOUSEHOLD ITEMS Craftsman 10" table saw; Craftsman wood lathe, Craftsman 12' band saw; Delta Shopmaster 6" joiner; Craftsman scroll saw; Grizzly 12" disc sander; Craftsman router & table; Craftsman bench dril press; Craftsman 150 floor mo. drill press; Craftsman 150 psi air compressor; Air Guard dust collector; bench grinder; shop tables Craftsman router; wood clamps; bar clamps; drill bits; sanders; jig saw; air bubble; organizers; woodworking magazines; file cabinets planes; hardware; shovels; rakes; Craftsman 900 series 14" real tine tiller; Kerosene heater; Sunbeam grill; grow lights; gardening supplies; garden hose; metal sign; coaster wagon; rain trains planters; Worx string trimmer; saw horses; live trap; battery charger combination wrenches; hammers; pliers; socket set; circular saw pony riveter; hand sprayers; torque wrench; crochet set; Samsung TV; toaster oven; 2 full size beds; divan & matching chair; swive rocker; buffet; lamps; toys & games; pictures; decorations & more.

**VERNE M. & RUTH GOERING, SELLERS** 

VAN SCHMIDT • Auctioneer/Real Estate 7833 N. Spencer Road, Newton, KS 67114 620-367-3800 or 620-345-6879

www.hillsborofreepress.com Schmidt Clerks & Cashiers \* Lunch Provided TERMS: Cash day of sale. Statements made day of sale take precedence over advertised statements.

Brown, Butler, Chase, Chautauqua, Cherokee, Cheyenne, Clark, Clay, Cloud, Coffey, Comanche, Cowley, Crawford, Decatur, Dickinson, Doniphan, Douglas, Edwards, Elk, Ellis, Ellsworth, Finney, Ford, Franklin, Geary, Gove, Graham, Grant, Gray,

# Nature Trail opens at Pioneer Bluffs

With spring comes new opportunities, including a chance to experience a new nature trail at Pioneer Bluffs near Matfield

"One of the things that has always drawn me to Pioneer Bluffs is the feeling of peace and refuge. It's a quiet, welcoming place to escape for a while," said Dave Leiker, board president and one of the trail designers. "Now that feeling of being out in nature is even more immersive with a new trail looping through thickets, burr oaks and along pocket meadows on a patch of land formed by a loop in Crocker Creek. The trail makes that area

much more accessible and fun to explore. There is a gentle creek crossing to contend with, but that just adds to the atmosphere. And Crocker Creek is a wonderfully cooling spot

on a summer day.

The Pioneer Bluffs Nature Trail is free and open to the community. It meanders through a wooded area along Crocker Creek, and offers a natural space for hiking, exploring, bird watching, photography, observation and reflection.

To access the trail, visitors can follow the pathway behind the historic log cabin to rocks that cross the creek. Depending on recent rains, wading shoes or boots are recommended.

A grant from the Sadie Jones Fund of the Emporia Community Foundation, a designated gift from an anonymous donor, and 2020 ECF Match Day contributions have combined to create this trail for the community.

twelve-acre The grounds of Pioneer Bluffs are open to the public every day during daylight hours. Visitors are invited to bring a picnic or a book to enjoy a quiet place of refuge.

The Pioneer Bluffs National Register Historic District can also be explored with a self-guid-

ed tour. Using a smartphone on QR codes placed around the property, the tour offers history, background stories, and a bit of education about this and other ranches, and the generations of ranchers who shaped the Flint Hills. It can be accessed online at tour.pioneerbluffs.org. The Greater Emporia Area Disaster Relief Fund provided support for the self-guided tour.

"Cattle A monthly Tales of the Flint Hills" E-Newsletter shares stories and informs of upcoming events. To sign up for E-News, contact executive director Lynn Smith at lynn@pioneerbluffs.org or (620) 753-3484. More information can be found at pioneerbluffs.org and on the Pioneer Bluffs Facebook

Pioneer Bluffs is a nonprofit organization with a mission to preserve and share the ranching heritage of the Flint Hills, located on Flint Hills National Scenic Byway K-177, 14 miles south of Cottonwood Falls or one mile north of Matfield Green.

2-DAY AUCTION SATURDAY, MAY 15 & SUNDAY, MAY 16, 2021 9:30 AM BOTH DAYS

Auction will be held in Kenwood Hall at the Saline Co. Expo 900 Greeley in SALINA, KS **SATURDAY, MAY 15 SUNDAY, MAY 16** 

Selling will be over 1500 tools of all kinds inc: fence tools & stretchers. For pictures & list check our website at

www.thummelauction.com. The tools are numbered but will not sell in order. Selling will be a large license tag collection, spark plug collection, signs, advertising, padlocks, spurs, shucking hooks, planes & other.

of their barn.

Please check our website for pictures & a tool list www.thummelauction.com

#### HAROLD JEHLE ESTATE

Note: Harold has collected for years there are many unique tools. Both days will be very large. Check our web site for pictures and a list of tools at www.thummelauction.com. Please wear masks for your safety.

Auction Conducted By:

THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067

#### HARLEY DAVIDSON MOTORCYCLE, MARILYN MONROE COLLECTORS **ITEMS, TOOLS, ANTIQUES & COLLECTIBLES AUCTION** SATURDAY, MAY 8, 2021 — 10:00 AM

LOCATION: 415 Sycamore Drive — WAMEGO, KANSAS 66547 \* LUNCH Directions: Turn South off Hwy. 24 onto Columbian Rd & proceed approx. 1 mi. to 4th St. then turn left. Proceed approx. .03 mi. to Sycamore Dr. then turn Left. Auction will be on the west side of the road about half way up the block. See Last Week's Grass & Grain For Listings or go to our website!

For questions call:

morgan@foundationks.com

FOUNDATION ■ REALTY

**SELLER:** 

210 N. 4th St., Suite B, MANHATTAN, KS Guest Auctioneer: Greg Kretz Visit us at www.foundationks.com for more details & pictures!

CENTRAL KANSAS MOST MODERN LIVESTOCK AUCTION SALE EVERY THURSDAY Hogs - Cattle has been advertising in Grass & Grain for 52 years. West on Old Hwy. 40 Their first ad in LAURENCE CLEMENCE Abliene - Phone CO 9-3891 Grass & Grain was June 28th, 1966 announcing the opening

Sales Manager Mike Samples says ... "Farmers and Ranchers Livestock has been using Grass & Grain for many years and we know Salina and surrounding areas are a big part of Grass & Grain's readership."

"Grass & Grain is a paper that people enjoy getting every week and my customers know it is a good place to look up the market reports."



You too could be reaping the benefits of Grass & Grain advertising

Don't hestiate, call TODAY

Or stop by to talk with one of our advertising representatives:





implements. Most of the tractors are in original boxes and in mint condition. This will be a great auction to add to or start your own collection. 425 lots including: Farm toy tractors and implements, Farm toy and Farm equipment Collector's resource books, Parts and tools for repairs on farm toys, Shelving

Bidding Opens Thursday, May 6 @ 8 AM CST with Soft Close Wednesday, May 12 @ 8 PM CST Pickup is 1-7 p.m. Friday, May 14 in Lyons, KS. Shipping available.

Auction & BIDDING Information available at: https://hollingerauction.hibid.com/auctions/current HOLLINGER ONLINE AUCTIONS, Lyons, KS — Jim & Mary 620-257-8148



# Grass & Grain Area Auctions and Sales

Due to the uncertainty of events, if you plan to attend any of the following auctions and have any doubts, please contact the auction company to confirm that the auction will be conducted and inquire about safety procedures if you are concerned. And please check their websites.

Always great online Equipment auctions www.purplewave.com

Online Only Property Auction (Ends Thursday, May 27, 6 PM) — 5.2 acre m/l farmstead (Home, KS) consisting of a ranch-style 3 bedroom, 2 bath, full basement home for Alan J. & Rochelle A. Loeffler Estates. www.Midwest-LandandHome. Auctioneer: Mark Uhlik, broker/auctioneer; Jessica Leis, arent

Online Only Property Auction (Ends Thursday, July 8, 6 PM) — 3 Commercial Buildings (Haddam, KS) consisting of tract 1: 2-story school building; tract 2: relocatable office buildings; tract 3: warehouse structure & prefabricated storage shed; tract 4: entire property as a whole. Seller: Haddam Alumni Association. www. MidwestLandandHome. Auctioneer: Mark Uhlik, broker/auctioneer: Jessica Leis, agent.

May 3 — Real estate consisting of older 2-bay building (former service station). Also selling tractor, trailers, tools & collectibles held at Delphos for Roger Yager Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

May 4 — 1,897 acres m/l of Chase County land offered in 3 tracts & combinations consisting of farmland, ranch land, hunting & homesite held at Cottonwood Falls for Cowan Farm & Ranch. Auctioneers: Hall & Hall.

Online Auction (bidding Opens May 6, 8 AM & soft closes May 12, 8 PM) — 425 lots including farm toy tractors & implements, farm toy collectors resource books, parts & tools for repair on farm toys, shelving & more held at hollingerauction.hibid. com/auctions/current for Robert Von Lehe Estate. Auctioneers: Hollinger Online Auction.

May 8 — 2005 Jeep Grand Cherokee SUV, lawn tractor, furniture, appliances, collectibles & miscellaneous held at Council Grove for Gary L. & Janice Jensen Living Trust & Vonnie Lloyd. Auctioneers: Hallgren Real Estate & Auctions, LLC.

May 8 — Trucks, tractors, salvage & tools, furniture, household, yard & miscellaneous held at McPherson for Lowell &

Yvonne Friesen Estate. Auctioneers: Crane Auction, William Crane.

May 8 — Antiques, lawn & garden, machinery & equipment, 2019 Toyota pickup, shop & tools, JD plow, small chisel, blade, scoop, hay wagon, fuel tanks & miscellaneous held at Fulton with some items simulcast online at equipmentfacts.com for Estate of Jerry Lyons. Auctioneers: Marty Read Auction Service.

May 8 — 2011 Harley Davidson Screamin' Eagle motorcycle, Marilyn Monroe Collectors items, antiques & collectibles, tools & more held at Wamego for Diane Dawson. Auctioneers: Foundation Realty, Morgan Riat.

May 8 — Zero Turn Mower, tiller, car port, generator, car trailer, antiques, tools, household & more held at Peabody for property or Norm & Judy Claassen. Auctioneers: Griffin Real Estate & Auction.

May 8 — Woodworking equipment, shop tools & household items held at Moundridge for Verne M. & Ruth Goering. Auctioneers: Van Schmidt Auction.

May 8 — Approximately 20 Antique & Classic Cars at auction held at Salina for Jeff Bennett. Auctioneers: Wilson Realty & Auction Service.

May 8 — Tractors, machinery & miscellaneous held near Auburn for Thomas Gail Kingsley Sr. farm auction. Auctioneers: Edgecomb Auctions.

May 8 — Real Estate & land auction offered in 3 tracts & combination consisting of 2 BR, 2 BA metal sided home with outbuildings on 3 acres: 62.97 acres of pasture, pond & some cropland; 47.18 acres of cropland pasture & timber held at Berryton. Auctioneers: Sanders Auctions, Jim Sanders, Coldwell Banker assoc. broker. (estate sale held at the home May 1 & 2 with antiques & collectibles)

May 8 — Real Estate consisting of 3BR Bungalow home on 15.64 ac; personal property including: guns, 1950 Ford Custom 2-dr Sedan, 4 wheeler, zero turn mower, tractors, trailer, tools, generator, household, collectibles held at Rossville for Jeannine Dodds. Auctioneers: Gannon Auctions, Bob Thummel, broker; Nicole Gannon Wright, agent.

May 8 — Combine, trucks, tractors, hay equipment, skid steer, tillage equipment, farm equipment, 100 big round bales prairie hay, 10 round bales alfalfa, shop items & more held at Salina for Fred & Ardyth Brightbill. Also selling for neighbor: Tillage equipment, fertil-

izer spreader, JD Hi Cycle field Wick 42' w/transport trailer, farm equipment & more for John & Kellie Thelander. Auctioneers: Bacon Auction Company, Royce Bacon.

May 8 — 75+ Firearms, ammo, reloading, 2 large gun safes, Winchester Collectibles held at Lawrence for Private from Eastern KS. Auctioneers: Elston Auctions.

Online Auction (bidding Opens May 13, 8 AM & soft closes May 19, 8 PM) — 355 lots including Appliances, riding lawn mower, snowblower, fishing poles, furniture, wood gun cabinet, misc. household, lawn & garden & collectibles held at hollingerauction.hibid. com/auctions/current for the Farmer Estate. Auctioneers: Hollinger Online Auction.

May 14 & 15 — 4 State Draft Horse & Mule sale May 14 consisting of new & used tack, antiques & collectibles, saddles, all horse-related item, buggies, trailers & more; May 15 consisting of Horses & Mules held at Miami, Oklahoma. Auctioneers: Morris Yoder Auctions.

May 15 — Farm equipment including tractors, sprayer, combines, headers, trucks, trailers, Polaris, miscellaneous equipment, some consignments by neighbor (Riggin Farms), shop items & more held at Pittsburg for JCB Farms. Auctioneers: Humble Real Estate & Auctions, Donnie Humble, Bud Humble.

May 15 — 8N Ford tractor, 2013 Dodge Citadel Durango, modern tools, shop & outdoor items, primitives & collectibles, furniture, household & much more held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

May 15 — Furniture, jewelry, collectibles, 50+ pieces original art inc. paintings, drawings, busts; tools & outdoor items & much more held at Strong City for Roberta "Bobbie" Berg Estate. Auctioneers: Hancock Auction & Real

May 15 — Real Estate, antiques, household, tools, vehicles & more held at Louisville for The Late Raymond & Joleen Blankley. Auctioneers: Foundation Realty, Morgan Riat.

May 15 — Shed to be moved, mower, etc., tools, antique furniture, antiques, primitives & collectibles, yard art pieces, CI stoves & cookers, misc. household & more held at Red Cloud, Nebraska for Sharon Burgess. Auction-

eers: Wolters Auction & Realty.

May 15 — Tractors & farm machinery, guns, farm-related & household items held near Galva for Wavern & Lois Unruh. Auctioneers: Van Schmidt Auction.

May 15 — Antique furniture, antiques, glassware & collectibles, household, tools & more held at Ellsworth for Dr. & Mrs. Derril Gwinner. Auctioneers: Meitler Auction Service.

May 15 — High End Collectibles, tools, jewelry, Santa Fe RR collection, household items & more held at Lawrence. Auctioneers: Elston Auctions.

May 15 & 16 — Selling 5-15: Over 1,500 tools of all kinds including fence tools & stretchers; selling 5-16: Large license tag collection, spark plug collection, signs, advertising, padlocks, spurs, shucking hooks, planes & more held at Salina for Harold Jehle Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

May 19 — 476 Acres CRP land in Finney County, Kansas sold at absolute auction for Garland & Ruth Phipps Family. Live auction held at Cimarron with internet bidding available (www.farmandranchrealty.com). Auctioneers: Farm & Ranch Realty, Inc., Donald L. Hazlett, broker/auctioneer.

May 20 — 115.17 m/l taxable acres of Jackson County land consisting of terraced acres, hay ground, pasture, 2 ponds, several outbuildings, machine shed, grainery, old milk barn & silo & more held at Holton for The Truman E. & Helen M. Hug Trust. Auctioneers: Harris Real Estate & Auction, LLC.

May 22 — Huge estate auction consisting of tractors, trailers, gas pumps & signs, semis, trucks, vehicles, 100s of lamps, riding mowers, Conex box, tools & misc., household, antiques & misc. held at Tecumseh for Estate of Harold D. Bernhardt, Darleen Bernhardt, executrix. Auctioneers: Sebree Auction, LLC.

May 22 — Trailers, garden tractors, collectibles, collectible toys & household held at Newton for Harry W. Kasitz Estate; Bob Kasitz, seller. Auctioneers: Van Schmidt Auctions.

May 22 — Coins held at Emporia. Auctioneers: Swift-N-Sure Auctions & Real Estate.

May 22 — Camper, tractor, Bad Boy mower, 2-wheel drive chuck wagon, tools, furniture, outdoor, signage & much more held at Salina for Skip & Diana Matteson. Auctioneers: Baxa Auctions, LLC., Mark Baxa.

May 22 — Real estate consisting of 80 acres m/l of Pottawatomie County meadow & building sites to be offered in 3 tracts. Also selling tractors, Caterpillar & machinery, pickup, motorhome, trailer, mowers, tools, shop items & misc., hunting & fishing, guns, livestock items, household, yard misc., saddles & tack held near Westmoreland for Ronald R. Hashagen Estate. Auctioneers: Cline Realty & Auction, LLC.

May 22 — Firearms Collection & Hunting Enthusiasts Collectibles. Outstanding one owner collection held at Lawrence. Auctioneers: Elston Auctions.

May 23 — Outstanding collectibles auction consisting of antiques & collectibles including knives, Coca Cola, Elvis Presley, stamp collections & more, tools, lots of quality toy tractors & pickups, glassware & more held at Seneca for Kenneth Alexander. Auctioneers: Dan Deters Auction Company.

May 25 — Real Estate consisting of a house with 4 conforming bedrooms, 2 baths, nice deck, walk-out basement and great backyard near Wamego middle school held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

May 27 — Tractor, pickup, implements & horse trailer, mowers & tools, household & collectibles held at Concordia for Evelyn Miller Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

May 27 — 24th Oil & Gas auction consisting of operations, royalties, working interests, overrides, minerals & more held online & Live at Wichita. Mid-Continent Energy Exchange. www.MidContinentEnergyExchage.com (mceeonline.com).

May 29 — Commercial grade kitchen equipment, taxidermy, advertising pieces & much more held at Manhattan for HCI Hospitality & Dave Dreiling. Auctioneers: Foundation Realty, Morgan Riat.

May 29 — Truck, trail-

ers & equipment, tools & household held at Beloit for Dwaine Chinander Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

May 31 — Cars including 1958 Chevy Cameo pickup, 1958 Chevy Del Ray sedan, 1967 Chevy 1/2 pickup, 1952 Chevy sedan, 1977 Chevy Vega & more, Farmall Cub tractor, signs, new parts & collectibles, tools & new parts held at Hill City for former Money Chevrolet, Mike Money. Auctioneers: Thummel Real Estate & Auction, LLC.

June 5 — Antiques, furniture, primitives, household & more held at Wamego for Larry Bolyard & his late wife Carla. Auctioneers: Foundation Realty, Morgan Riat.

June 5 — Farm auction held at rural Eudora. Auctioneers: Elston Auctions.

June 6 — Estate gun auction including a nice variety of approximately 250 high quality guns held live at Salina with online bidding available. Auctioneers: Wilson Realty & Auction Service.

June 12 — Household goods & miscellaneous at Clay Center for Myrtle (Mrs. Allen) Baxter Estate. Auctioneers: Kretz Auction Service.

June 12 — Estate auction held at rural Lawrence for Dwane & Dorothy Schaake Estate. Auctioneers: Elston Auctions.

June 19 — Tools, shop equipment, mower/tractor, iron, antiques, household & more held at Topeka for Judy Hilbish & The Late Olin Hilbish. Auctioneers: Foundation Realty, Morgan Riat.

June 26 — Farm auction consisting of 20 to 30 Collectible Tractors, trucks, trailers, collectibles, etc. held at rural Eudora. First of several auctions. Auctioneers: Elston Auctions.

August 7 — Farm machinery, tools & miscellaneous held near Green for Ray & Diane Lykins. Auctioneers: Kretz Auction Service.

# ATTENTION AUCTIONEERS NEW AD DEADLINE: Friday BEFORE 11:00 AM

- Due to new printing deadlines, all AUCTION ADS have to be sized by Noon and ads submitted after 11:00 AM will not be accepted.
- \* Ad deadline IS NOW 11 AM. It is always recommended to try and submit auctions by the end of Thursday for proofing purposes.
- \* Deadline for the Free Auction Calendar is 11 AM each Thursday. You are welcome to send your listing as soon as you have it and before advertising starts.

AUCTIONS are a VERY IMPORTANT part of Grass & Grain & this notice is meant to prevent any auction from being excluded due to deadline. We appreciate your loyalty to Grass & Grain!

# **PUBLIC AUCTION**

SATURDAY, MAY 8, 2021 — 10:00 AM 1776 20th Avenue - MCPHERSON, KANSAS From Galva, KS 1 mile West on Hwy. 56 & 3 3/4 miles North

TRUCKS, TRACTORS, SALVAGE & TOOLS

1984 GMC 1T dually truck w/454 4 spd; 1983 Western Star 4900 semi w/wet kit, 3406 A Cat engine; 1995 Chevy S10 pickup w/4WD; 1949 Ford 8N tractor; 1974 IH 966 tractor w/Duall loader; 1980 4690 Case tractor w/2 remotes, 3 pt & duals all around; Case 600 & 930 tractors on propane, not running; Hesston 6200 swather, not working; swather trailer; Gleaner C2 combine, not working; 6' rotary mower; 3 pt blade, dirt slip, cultivator & wire winder; fuel tank w/elec. pump; Datsun pickup bed trailer; pickup flatbed; hay fork; NH 275 square baler; 12' undercutter; 14' tandem disc; 1240 JD 4 row planter; 1250 JD 6 row planter; JD sickle mower; Noble springtooth; 2 Gleaner bins on wheels; JD drill; working chute; small portable corral on wheels; 2-metal feed bunks; misc. tanks; wheel weights; 2-5000 oil tanks; cab for IH tractor; windmill tower; Hesston 55 round baler; 2-4 bottom plows; Craftsman 46"x36"x24" rollaway toolbox; boomers & chains; wrenches, hammers, screwdrivers, come along & pry bars; old toolboxes; ladders; old Cushman scooter body & much much more!

FURNITURE, HOUSEHOLD, YARD & MISC.

Old parlor table, hope chest, adult & child's wood rocker, captain's chair; washstand & trunks; dropleaf table; oak bookcases; dresser w/ mirror; 6 drawer dresser; curio cabinet; TV stand; file cabinets; bar stool; refrigerator; microwave; red vintage highchair; misc. chairs; Moundridge Creamery misc.; 20 gal. Western stoneware crock; small crocks; Ig. safe; Kitchen Aid mixer; pots & pans; stoneware dishes; Corningware; enamelware; glassware; serving dishes; silverware; small appliances; Tupperware; clocks; home decor & pictures; lamps; cookbooks; baskets; picnic basket; toys & games; DVDs; Santa Claus collection; lighted Christmas village; Christmas misc.; Danbury Mint farm plate sets; carpet cleaner; vacuum; Dixon riding mower; Murray push mower; picnic table; croquet set; propane grill; glider swing; wood lawn furniture; lawn chairs; coolers; wheelbarrows; Radio Flyer wagon; weed-eaters; milk cans; rakes, hoes & shovels; yard art; galvanized tubs & buckets; plywood & lumber; chain saw; hedge trimmer; pop bottles & much much more!

#### LOWELL & YVONNE FRIESEN ESTATE

WILLIAM CRANE, AUCTIONEER
785-577-0488 • 785-254-7034

Lunch Served by The Suncrest Mennonite Church
Statements made day of sale take precedence over all advertising.



476 AC CRP - FINNEY CO, KS

3	156.00	552.55			-	\$1,024	.02
-	476.00	458.00	Pror	ated to	closing	9.	+
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MIN	ERAL RIGH	ITS: All	Seller'	s inter	rest to B	uyers.	I
		RTUAL T				/ISIT	

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TRAVIS WEAVER, Listing Agent (620-376-4600)
1420 W. 4<sup>TH</sup> • COLBY, KS 67701
Call Toll Free; 1-800-247-7863
DONALD L. HAZLETT, Broker/Auctioneer

"When you list with Farm & Ranch, it's as good as SOLD!

#### SATURDAY, MAY 15, 2021 — 10:00 AM Auction Location: 1570 Avenue JJ, ELLSWORTH, KS

Auction Location: 1570 Avenue JJ, ELLSWORTH, KS
Directions: From the Jct. of Hwy. 156 & Ave. JJ, go East 1/4 mi. on
South side of road. (1/4 mi. East of Carrico Implement.)

ANTIQUES, GLASSWARE fruitwood curio cabinets; 12

ANTIQUES, GLASSWARE & COLLECTIBLES

Walnut parlor table w/marble top: Walnut drop front desk: Oak armoire; rocker w/padded seat; Bentwood rocker; Birdseye Maple dresser w/oval mirror; 7-drawer Walnut jewelry cabinet Oak 1/4 sawn parlor table; plate rack; old wall crank phone; wall plate & cup rack; Walnut 5-shelf china cabinet; Walnut parlor table; Walnut bookcase; Walnut dresser; Walnut dresser w/mar-ble top; dolls; trunks; books by Will Rodgers, Willis Poems, several novels; 1/4 sawn Oak glass display case; cigar humidor; old counter phone; silverware pcs. by Rodgers-Wanita; silver platters; candlesticks; pewter pcs.; handpainted dishes from Prussia, Germany, Bavaria; RS German handpainted pitcher; RS Prussia tea set; several tables of collectibles & glassware all n very good shape; oil lamps Northwood bowls, cups; green Depression dishes; French pitcher, platter, serving tray; Austrian bone dishes; picture card viewers; WC Field cookie jar; mantel clock; old platform scale: Coca Cola cookie iar. tray; pottery; camel back trunk; dollhouse; pictures & frames; press cut class glass; Snow Bunnies; Easter HOUSEHOLD

HOUSEHOLD

Duncan Phyfe parlor table; 2

inet; card table w/4 chairs; sm. folding tables; end tables; vibrating chair; pine 4-shelf bookcase; Walnut telephone stand; Cardio glider; Proform 785 SS treadmill; dining table w/3 chairs; Oak entertainment center; Hitachi flat screen TV; wall curio cabinet; king size bed w/metal headboard; Oak end table w/lamp; 2-drawer night stand; usual sm. kitchen appliances; elec. organ w/bench; misc. kitchen dishes; board games; toys; child's kitchen set; cedar chest; Oak shelf; wardrobe; Gun Cabinet for 6 guns; 2 binoculars; shotgun shells; misc. storage cabinet; Walnut cedar-lined chest; Admiral side by side ref./freezer. TOOLS
Wagner paint sprayer; tool boxes; socket sets; Workmate

plc. Austrian china; quilt racks; Oak dining chairs; Oak youth

chair: Bentwood Walnut rocker:

Kimball console piano, Walnut

bench; 4-drawer metal file cab

boxes; socket sets; Workmate bench; ice chests; bench grinder; jigsaws; battery charger; elec. cords; hardware & organizers; Coleman heater; Craftsman R/A buffer; router table; yard tools; portable air comp.; air bubble; hand saws; post maul; sledge; log chain; bench vise; grease guns; oil cans; misc. shop items.

NOTE: Bring a friend, we may run 2 rings. Lunch Stand available. Any statements made the day of sale will take precedence over printed matter. Terms: Cash. Must have picture ID to obtain bidding number. No property removed until settled for. Not responsible for accidents.

SELLERS: DR. & MRS. DERRIL GWINNER

MEITLER AUCTION SERVICE

Ken Meitler, Auctioneer • 785-526-7266, 785-420-0605, cell

308 North Main, Sylvan Grove, KS 67481

ON THE EDGE OF COMMON SENSE

#### The Last Dollar

For those of you who forgot how easy it was to get started in farming let me tell you about my friend Con. Many years ago, he bought a farm in the wilds of Minnesota. The feller that sold him

the farm had his farm sale the day Con arrived to take possession of the land.

Now, Con had been a cowboy type all his life and, upon viewing the farm machinery stacked in the yard, he was hard put to identify anything other than the handy man jack and a tractor. But he thought if this stuff was good enough for the farmer that sold out, it was good enough for him. He'd figger out what it was later.

All the neighbors for miles around came to see who the new sucker was and maybe pick over the machinery like buzzards on fresh road kill...

Con jumped in and bought the only thing he recognized: the tractor. It was a 45 Allis... he paid \$1,250. Then he bought the mounted plow that went

Single week U

U.S. Department of

Agriculture data show

U.S. sorghum exports the

previous week were a re-

with it. Con said the auctioneer started on a big pile of orange metal, "Ain't you gonna buy that? You bought the tractor and the plow." Con bought it. Two days later he found out it was a mounted cultivator.

When the sale was over several of the farmers asked Con to load their heavy stuff, since he'd bought the tractor an' all, they said. Con leaped up in the seat, intent on showin' these skeptical neighbors he knew what he was doin'. He fumbled around for ten minutes, switching on the headlights, the choke, the throttle, the gauges and wipin' the transfer case clean lookin' for some instructions. Finally an ol' timer reached over and said, "Pull this, son." It fired up right away (it was the only time in the next five years it ever did that). He couldn't find the shift pattern but fortunately it was in gear and the clutch was where it belonged.

The first thing they wanted him to load was an old pull-type, disjointed disc. It never went anyplace he aimed it. Con would turn around and it would be passing him.

Eventually he dragged it up on a flat bed inflicting considerable damage in the process. Pleased with himself he turned and said, "Next?" Everybody else had drifted away.

The feller with the bent disc came over to Con, opened his wallet and handed him a dollar bill. "Kid, you take this and buy yourself a can of gas. It'll be the first and last dollar vou ever make farmin', but you'll always have enough to git outta town."

www.baxterblack.com



- Cradles can be lifted w/one hand . Cradles are removable Safety locks for cradles in both the up & down positions, located at the
- front of trailer
- 1-Year Mfg. Warranty on axles & tires 2-Year Warranty on trailer Heavy duty tubular construction
- 10-bale trailer has 7,000 lb. tandem axle with brakes & 10 ply tires 12-bale trailer has 10,000 lb. tandem dual axle w/brake & 10 ply tires
- 14-bale trailer has 12,000 lb. tandem dual axle w/brake & 14 ply tires
- Comes with a spare tire

Now have options of hydraulic dump & 14 ply tires

**STEERS** 

Toll-Free: 866-293-5450 THE WORKHORSE OF WESTERN KANSAS cord-breaking 33.9 million bushels, topping the previous record by more gust 2020. The top destination was China.

In addition to record-breaking exports, new sales commitments were 33.8 million bushels, predominantly purchased by China. The previous resales was 32 million bushels, also in August 2020.

.S. sorghum sales shatter previous records

"U.S. sorghum exports continue to signal very strong demand for our crop, and new purchases at this level only reaffirm that," National Sorghum Producers CEO Tim Lust said. "The size of shipments reported this last week is equivalent to the size of approximately ten to twelve Panamax vessels."

New crop purchases of U.S. sorghum for this point in marketing year are also at a record level, reaching 40 million bushels this past week-a 264 percent increase from the previous record set

in 2014. These new crop purchases are significant, particularly in the wake of a + \$5 Dec 2021 Chicago Board of Trade price.

"This is the strongest new crop demand we have ever seen at this time in the season," Lust said. "Availability is so scarce that the sorghum crop being planted now is being marketed at the same time, and farmers have not even started planting in Kansas yet. This sends a strong demand signal to U.S. sorghum producers from our international customers, and we look forward to getting the 2021 crop in the ground."

#### than 10 million bushels, which took place in Aucord for weekly sorghum

Family Owned • Repair & Special Orders • Class 3 Deale

**NOW AVAILABLE - CUSTOM RIFLE WORK:** Action Blueprinting & Truing • Barrel Chambering • Barrel Threading • Rifel Accuracy Troubleshooting/Repairs • Custom Cerakote Bake-on Finish

 Plus many more repairs of all types of firearms 785-201-5090 • 104 NORTH NELSON • BENNINGTON, KS Hours: Tues., Thurs., Fri.: 10 a.m. - 6 p.m. • Wed.: 4 - 7p.m. Sat. 10 a.m. - 3 p.m. • Closed Sun. & Mon.

621@14.00

# Farmers & Ranchers **AUCTIONS EVERY MONDAY & THURSDAY**

**Selling Cattle every Monday** Hog Sales on 2nd & 4th Monday of the month only!

Barnard

#### RECEIPTS FOR THE WEEK: 3,267 CATTLE & 149 HOGS.

300-400	)	\$174.00 - \$184.00	20 blk	Barnard	657@143.50
400-500	)	\$168.00 - \$178.00	59 blk	Abilene	601@143.50
500-600	)	\$164.00 - \$174.00	8 mix	Hillsboro	580@143.00
600-700	)	\$154.00 - \$164.00	4 blk	Lindsborg	528@143.00
700-800	)	\$139.00 - \$149.50	3 blk	Lindsborg	518@143.00
800-900	)	\$126.00 - \$136.00	13 blk	Abilene	515@142.50
900-1,0	00	\$113.00 - \$123.60	5 blk	Windom	580@141.00
	HEIFER	RS	11 mix	Kansas City, MO	658@139.50
300-400	)	\$151.00 - \$161.00	3 blk	Salina	585@139.00
400-500	)	\$148.00 - \$158.50	5 blk	Belleville	662@138.00
500-600	)	\$139.00 - \$149.00	67 blk	Abilene	671@134.50
600-700	)	\$133.00 - \$143.50	28 blk	Barnard	723@134.00
700-800	)	\$120.00 - \$130.50	21 blk	Lincoln	684@134.00
800-900	)	\$118.00 - \$128.00	27 blk	Barnard	757@132.00
			20 blk	Ellsworth	709@130.50
THURSDAY, APRIL 29, 2021			13 blk	Marquette	732@130.00
	STEER		25 blk	Marquette	810@128.00
7 blk	Bennington	382@184.00	20 blk	Lincoln	780@128.00
10 blk	McPherson	322@181.00	55 blk	Ada	823@124.50

#### 322@181.00 McPherson 55 blk 507@180.00

12 blk 8 mix 11 mix	Lindsborg Lost Springs Tescott	507@180.00 461@180.00 218@179.00	MONDAY, APRIL 26, 2021 HOGS		
3 blk	Salina	408@178.00	10 pigs	Whitewater	99@77.50 per head
2 blk	Longford	478@178.00	26 fats	Tescott	297@73.75
14 blk	Abilene	435@177.00	6 fats	Moundridge	273@69.00
16 mix	Lost Springs	419@177.00	6 fats	Esbon	245@69.00
6 red	Burrton	532@176.00	1 sow	Minneapolis	590@66.00
3 blk	Abilene	482@175.00	4 sows	Abilene	531@65.50
5 mix	Beverly	432@175.00	6 sows	Abilene	535@65.00
3 blk	Bennington	513@174.00	1 sow	Abilene	620@65.00
6 blk	McPherson	424@174.00	7 sows	Abilene	500@61.00
5 blk	Inman	479@174.00	5 sows	Lebanon	522@60.00
4 blk	Brookville	414@172.00		CAL	
6 blk	Longford	561@171.00	2 blk	Beloit	278@550.00
9 mix	Marion	548@170.00	2 blk	Beloit	278@550.00
23 blk	Peabody	567@170.00	4 blk	Beloit	205@500.00
10 blk	Abilene	516@170.00	4 blk	Beloit	275@475.00
17 blk	Lindsborg	575@168.00	1 char	Brookville	210@450.00
7 blk	Inman	499@168.00	6 blk	Beloit	207@425.00
6 blk	Inman	573@167.00	1 blk	Abilene	185@400.00
4 blk	Brookville	490@164.00	1 blk	Brookville	180@400.00
3 blk	Longford	608@164.00	1 blk	Salina	180@400.00
7 blk	McPherson	596@162.00	1 blk	Beloit	175@400.00
14 mix	Ellsworth	621@159.00	1 red	Brookville	175@385.00
2 blk 5 blk	Galva	525@157.00	1 blk 5 blk	Gypsum	150@375.00 173@375.00
4 blk	Windom Abilene	628@156.00 606@155.00	1 blk	Gypsum	155@350.00
10 mix	Salina	600@155.00	2 blk	Gypsum Gypsum	155@350.00
7 mix	Marion	641@154.00	1 blk	Jamestown	125@325.00
12 mix	Barnard	700@149.50	I DIK	CO	
5 blk	Salina	711@148.00	5 blk	St. John	1680@78.00
3 mix	McPherson	723@147.50	5 blk	Beloit	1275@77.50
17 blk	Lincoln	709@145.00	2 blk	Windom	1703@77.00
22 mix	Ellsworth	743@141.50	2 blk	Beloit	1293@76.50
64 mix	Hope	766@138.25	1 blk	Beloit	1240@76.00
36 mix	Ellsworth	838@137.00	1 blk	Glasco	1650@76.00
6 mix	Inman	813@136.00	2 blk	Salina	1025@75.50
43 blk	Lincoln	821@135.25	1 blk	Salina	1540@75.00
14 mix	Barnard	827@134.50	1 blk	Smolan	1665@75.00
84 mix	Assaria	828@130.50	1 blk	Glasco	1740@75.00
19 blk	Salina	932@125.50	1 blk	Windom	1640@74.50
60 mix	Nevada, MO	910@123.60	3 blk	St. John	1270@74.00
	HEIFERS		1 blk	Halstead	1305@74.00
5 blk	McPherson	318@161.00	1 blk	Beloit	1700@74.00
6 mix	Lost Springs	428@159.00	1 red	Solomon	1565@74.00
9 mix	Lost Springs	413@158.50	1 blk	Inman	1415@74.00
フトル	Lindohora	422@4EE 00	1 huf	Inmon	1575@7100

### **IN STOCK TODAY:**

432@155.00

470@154.00

474@153.00

432@153.00

487@151.50 529@150.00

413@150.00

499@149.00

509@149.00

548@148.00

533@148.00

566@147.00

554@146.00

583@145.00

589@145.00

Inman

Salina

Beloit

Minneapolis

Hutchinson

Falun Hutchinson

Lindsborg

Galva Lindsborg

Walton

Paxico

Lindsborg

**BULLS** 

1 bwf

1 blk

• Heavy Duty Round Bale Feeders 42' ROUND BALE DUMP TRAILERS \* • Heavy Duty 5000# Grain Tote

### Livestock Commission Co., Inc. Salina, KANSAS

#### SALE BARN PHONE: 785-825-0211 MONDAY — CATTLE • HOG SALE 2nd & 4th MONDAY

Hogs sell at 10:30 a.m. on the 2nd & 4th Monday of the month. Cattle at 12:00 Noon. Selling calves and yearlings first, followed by Packer cows and bulls.

#### THURSDAY — CATTLE ONLY

Selling starts at 10:00 a.m. Consign your cattle as early as possible so we can get them highly advertised.

AUCTIONEERS: KYLE ELWOOD, BRANDON HAMEL & GARREN WALROD For a complete list of cattle for all sales check out our website www.fandrlive.com

FARMERS & RANCHERS HAS SWITCHED BACK to for our online auctions.



SPRING SPECTACULAR HORSE SALE: MAY 15, 2021.





**LOT 103** 

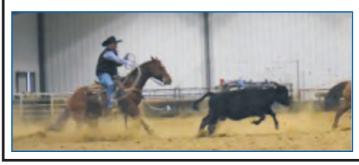
**LOT 89** 





**LOT 41** 

**LOT 10** 



**LOT 37** 

#### **EARLY CONSIGNMENTS FOR THURSDAY, MAY 6, 2021**

27 blk&red S&H 500 HR/30 days weaned/vacc; 140 mostly blk hfrs 725-850 LTW/vacc/open; 145 blk S&H 550-900 HR/LTW/vacc/knife cut/benoit sired; 62 mostly blk str 850-900; 35 blk S&H 450-650 HR/vacc

For Information or estimates, contact:

#### Mike Samples, Sale Mgr., Cell Phone 785-826-7884 Kyle Elwood, Asst. Sale Mgr., Cell Phone 785-493-2901

1575@74.00

1995@110.50

2095@106.50

2200@105.50

2160@105.50 2000@104.50

2015@103.50 1675@103.00

1780@102.00

1590@102.00

1770@101.50

2050@100.50

2255@100.50 2170@100.00

Jim Crowther Lisa Long 785-254-7385 620-553-2351 Roxbury, KS Ellsworth, KS

Lindsborg

McPherson

Kansas City, MO

Kansas City, MO

Burrton

Abilene Kansas City, MO

Abilene

Abilene

Lonaford

Belleville

Ellsworth

Inman

7 blk

4 red 18 blk

18 blk

79 blk

22 mix

11 mix

4 blk 5 blk

9 blk

2 char 5 blk

68 blk

3 blk

6 blk

Cody Schafer 620-381-1050 Durham, KS

Kenny Briscoe 785-658-7386 Lincoln, KS

Kevin Henke H: 785-729-3473, C: 785-565-3525 Agenda, KS

Check our listings each week on our website at www.fandrlive.com



Cattle Sale Broadcast Live on www.cattleusa.com1150 KSAL, Salina 6:45 AM -MON.FRI \* 880 KRVN 8:40 AM - WED.-THURS. \*550AM KFRM - 8:00 am, Wed.-Thurs.