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Economists study impact of international agricultural research at U.S. universities

By Pat Melgares, K-State Research

and Extension news service

An economic analysis on the impact of international agriculture research and development conducted at U.S. universities over 40 years indicates that every dollar invested provides a return of \$8.52 in economic impact.

Kansas State University agricultural economist Timothy Dalton is reporting results from a study of projects completed between 1978 and 2018 and funded by the United States Agency for Inter-national Development through its Collaborative Research Support Program, and Feed the Future Innovation Labs.

The research looked at USAID projects representing an investment of \$1.24 billion to support agricultural development and improve food security around the world. Those projects returned \$10 billion in economic impact, according to Dalton.

Much of the work is done by agricultural scientists at U.S. land grant universities.

"These university-funded programs positively impact the most vulnerable populations in low- and middle-income countries," Dalton reported. "Those living in poverty on less than \$5.50 per day receive 78% of the research benefits, and nearly 30% of those receiving benefits live in extreme poverty on less than a daily net income of \$1.90"

Dalton and Keith Fuglie - an economist with the US-DA's Economic Research Service - have co-authored a paper documenting the high return to investment in agricultural research and devel-opment. Their report is now available online from the Cambridge University Press.



A study of the value of international agricultural research through the U.S. Agency on International Development indicates a return of \$8.52 in economic impact for every dollar invested. Photo courtesy of the Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet, Kansas State University

"Agricultural productivity is one of the most powerful tools we have for promoting food security and equitable economic growth in low-income countries," Fuglie said. "When you raise agricul-tural productivity, you are improving the incomes and welfare of some of the most undernour-ished and poorest people in the world."

The authors found what they termed "high return investments" in such areas as integrated pest management technologies; new varieties of cereals and legumes; and

in alleviating post-harvest losses through improved storage practices.

"University investments in international agricultural research have delivered significant benefits for reducing poverty and improving nutrition for these low income populations," Fuglie said.

Dalton said international research provides benefits to U.S. taxpayers as well.

"We currently face insect pests in U.S. sorghum production that occurred in southern Africa in the 1980s, (and) in Latin America and the Caribbean during the early 2000s," he said. "When these pests appeared in the U.S., we were able to hit them head-on with the knowledge we gen-erated for farmers in those other countries.

He added that agricultural research targets two segments of populations in low-income coun-tries: farmers who are just getting by, and consumers in urban areas who allocate 70-80% of their budget toward food.

"When we combine these two populations, we see that (agricultural research) is lifting broad populations out of poverty," Dalton said. "That is what makes agriculture so much different than many other investment alternatives. Investment in agriculture affects the population broadly through higher incomes or cheaper food. Investment in agricultural research and development takes time, (but) persistence pays.'

More information about this USAID funded research and its findings is available online from K-State's Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet.

t discusses an-rura

By Lucas Shivers

To share fresh insight on the history of urban and rural collaboration and divisiveness, the Kansas Historical Society hosted an online presentation entitled: "The Urban-Rural Divide in American History Or, Why Can't We Get Along?'

"We focused on the urban-rural divide in American history," said Sarah Parsons, event organizer. "We are a nation of urbanites, and yet we are filled with people who don't like cities very much."

Kansas Historical Society organizes an ongoing series of speakers to share Virtual Museum After Hours on Zoom and Youtube. Parsons, a reference archivist at the Kansas State Archives, welcomed the main presenter for June 2022, Steven Conn, a professor of history at Miami University.

"The rural urban divide is one of the nation's oldest political rifts," said Parson. "The result has been an ever-widening debate over who is urban or rural, and what is a real American. We can explore the deep roots of American hostility towards cities and rural areas to ask questions about our continuing nostalgia for rural

Long-standing History

Originally from Philadelphia, Conn was on the faculty in the history department at Ohio State University since he received his Ph.D. from the University of Pennsylvania in 1994.

"I want to put forward what I see as a central dilemma on the urban-rural divide in American political and cultural life, rooted in about 200 years of American history," Conn said. "There's an essential American paradox. We

are a nation where 75% of us live in metropolitan regions of 500,000 people or more. We are a heavily urbanized nation.'

After 21 years at OSU, Conn became the W. E. Smith Professor of History at Miami University in Oxford, Ohio in 2015 where he teaches courses in American history. As the author of numerous books, he's currently completing a new one titled Rethinking Rural.

"In the first U.S. census, about 5% of us were urbanites," Conn said. "And now nearly 80% of us are trending towards greater and greater urbanization all through the 19th century, all through the 20th century, and it continues into the 21st."

These shifts are a consistent trend line throughout the history of the United States.

"The paradox, however, is that culturally and politically, we are a nation in a real dilemma," Conn said. "It's a real challenge as we think about what the future is going to look like as an urban nation filled with people who think they should be living on the farm."

Multiple Perspectives

As an often anti-urban bias, Conn discussed some of the privileges of rural politics.

"In fact, that's deliberate," Conn said. "That's the way the Constitution is designed because it was framed by a number of people who themselves were deeply suspicious of American cities.

Many founding figures had hostility towards cities.

"They did not want Americans to become urbanites," Conn said. "It was a moral issue. It's not just that somehow it's healthier, you have a bigger yard or anything material. Americans have collectively believed in it for a very long time. Country equals good; and city equals bad and wicked."

Yet despite all of the work associated with rural life, farming, countryside and so forth, Americans continually flocked to cit-

"Jobs in industrial cities were the dynamos, both economically and socially of the nation," Conn said. "Despite the fact that we have had this ethos, there is still a deep suspicion of

all things urban.' To many, some of the issues include perceptions of concentration and compaction of cities.

"There were too many people crowded together in these urban spaces that just must be bad," Conn said. "Not only are there just too many people, but too many of the wrong kind of people; too many people who are different from us. There is no question that at the turn of the 20th century, this anti-urban reaction is deeply xenophobic.'

Urban Growth

Cities in the U.S. grew for several reasons.

"For decades in the 1900s, Americans left the farm and moved into cities," Conn said. "Immigrants also increasingly came from southern and eastern Europe, flocking to places like New York, Boston and Chicago.'

Cities in the early 20th century were faced with problems of how to make life livable, growing as fast as they were in a chaotic way as they assimilated and absorbed people from all over the world with religious and language differences.

"People realized that the only way that cities are going to work is if the government steps in to make it possible," Conn said. "As Americans, we're supposed to believe in a kind of private world where we do things for ourselves."

For some, city life was too close to concepts like communism.

"I'm not exaggerating," Conn said. "I'm pulling from the language that people use, especially in the first half of the 20th century in essays and articles.'

American culture in the 1920s was driven by the technologies of mass media increasingly informed by urban ideals. particularly the radio and eventually TV.

"We became increasingly urbanized starting in the 1920s," Conn said. "Yet, Roosevelt's New Deal was really about rural places and agricultural places, particularly, it's really a new deal for rural America. Roosevelt didn't have much use for American cities."

With focus like the Agricultural Adjustment Act and Civilian Conservation Corps, rural areas saw expansion of agricultural Extension offices, soil conservation efforts and additional evidence across Kansas

"It's not a mystery why rural farmers loved Franklin Roosevelt," Conn said. "He brought all kinds of federal help to agricultural regions that were staggering under the Great Depression."

Next Era

In one noteworthy event, the World's Fair in New York City, which opened in May 1939, offered Americans an opportunity called "World of Tomorrow." One popular exhibit was the Futurama display, sponsored by General Motors. It presents what an American city could look like in 1960, around 20 years into the future.

"People saw a city of high-speed roads and skyscrapers, cleared out of all of those messy, congested, dense urban neighborhoods," Conn said.

In the post-war period, there was a focus on urban renewal, he shared.

"There was a rebuilding of American cities and in essence, clearing them out," Conn said. "As housing programs came into play, President Truman promised a decent home in a decent environment for Americans, creating an enormous housing crisis after the Second World

Happening simultaneously, the building of 42,000 miles of interstate highways in the late 1950s when Congress passed the interstate highway system.

"This is how cities were torn apart and centralized under the programs of urban renewal and highway construction," Conn said. "Leading to a period of urban crisis as cities are torn up, people fled to suburbs in large numbers culminating in the 1970s.

At the same time, however, rural areas were in even more precipitous decline to suburbs.

"It's worth remembering that the Farm Aid concert series was inspired by a summertime benefit concert to benefit famine victims in Ethiopia," Conn said. "There would be an analogy here between what was happening in Ethiopia and now what was happening in our farm belt. It was quite remark-

Modern Times

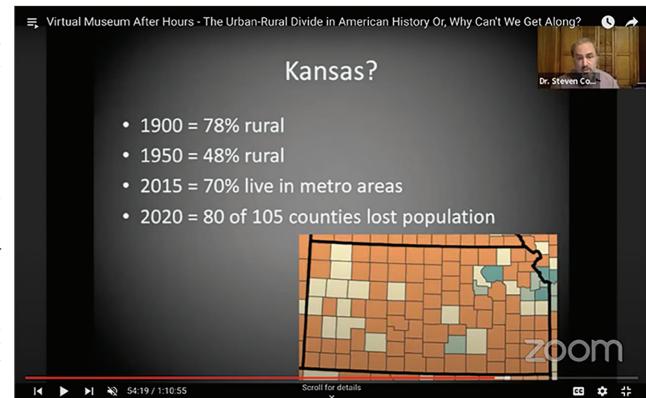
Through the Great Recession of 2008, rural America suffered more from the shifts in the American economy.

"In many ways, the problems we used to associate with urban areas have become the problems of rural areas," Conn said. "For example, there are drug addictions, opioids in particular, but a mess as well."

For modern trends like COVID population patterns, Conn said it's probably too early yet to know the lasting effects.

"I think the dust is going to take longer to settle on COVID," he said. "But as people go, so goes the economy."

The American Paradox America has 3,142 counties. But HALF of Americans live in just 143 of them. RESEARCH



Summits of Summer

Glenn Brunkow **Pottawatomie County** farmer and rancher

We have turned the calendar to July, and that means different things to different people. For students and teachers July means summer is at the halfway point, and the first day of school is near. For those of us in agriculture it means haying season and watching fall crops grow. In the Farm Bureau world, July is the start of county Farm Bureau annual meetings.

County Farm Bureau meetings in Kansas are as unique as the counties themselves. They are held anytime from July until October; the only stipulation is that they have to be done in time to get the voting delegates for that county registered for the Kansas Farm Bureau annual meeting in December. The meetings vary in the type of meal served anything from catered affairs to hot dog and ham-burger feeds or even ice cream socials. Some have entertainment, others feature educational speakers while some are bare bones, business-only gatherings. Recently some counties have gone with more family friendly activities with their annual meeting tagged on at the

Yes, there is no cookie-cutter county Farm Bureau Annual meeting template. That is the beauty of Kansas Farm Bureau, each county organization is its own unique entity. That is what makes me

proud to be a member of Kansas Farm Bureau and the Pottawatomie County Farm Bureau specifical-ly. I have never been involved with an organization that was so grassroots-driven and responsive to its mem-

Every annual meeting reflects the unique personality of an individual county and the members on the board. I have seen traditions developed over many years in some counties and other counties like to mix it up with something new each year. The COVID-19 years saw a lot of change in our county an-nual meeting with many being held virtually; thank goodness that isn't the case any more. One thing that all county annual meetings share is great fellowship among the members.

That is where I want to make the plea to you. If you are a member and you have not been to one of your annual meetings, please change that this year. You should receive notice of the meeting from vour respective county. Some will be a simple postcard while others will be a newsletter touting what your county has done during the year. If you have not received your notice yet or think you might have missed it, just call your local office and they

the details.

I hope you will consider attending. This is a good way to get your toes wet and see what vour organization has to offer. I don't know of a single county that isn't looking for members who want to be active and this is a good way to find out what it is all about. Who knows you might at least have a great meal or some other experience?

"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.

will be happy to give you Fighter pilot connects farm policy and national security

An Op-Ed from Farm Policy Facts

When August Pfluger decided to join the Air Force, he drew upon a deeply ingrained desire to put service before self. Now, as the congressman representing Texas' 11thdistrict, Pfluger recognizes that same motivation in the small number of hardworking men and women who farm and ranch to provide all Americans with food, fuel, and fiber.

"It's very difficult what that one percent of the population does to farm and ranch and provide food for every single American, because every American eats," he recently said on the Groundwork podcast.

Pfluger joined Farm Policy Facts to discuss how farming contributes to the security of our nation, and the critical role that farm policy plays in ensuring that this security remains uncompromised.

Long before his district, centered around San Angelo, Texas, became known for its oil and gas industry or as the home of the Goodfellow Air Force Base, there was agriculture. As a member of Congress and a leader of the Texas Ag Task Force, Pfluger is committed to supporting these farm producers by maintaining a strong farm safety net.

The farm safety net is especially important as farmers grapple with rising input costs and weath-er challenges. Pfluger relayed that many farmers in his district dealing with drought haven't been able to plant this year or have had to sell off livestock. With farming's already thin margins, it doesn't take a lot to put a farmer out of business. and Pfluger warned that farmers going out of business is a national security issue.

That's because "a country that can feed itself is so much more strong than one that cannot."

Pfluger said that as Congress writes the next Farm Bill, its members should draw from the lessons learned from recent challenges affected farmers. "The unpredictability of agriculture is the reason we have a Farm Bill " he said

"The federal government, I believe, needs to play a role (in farm policy) and 2022 highlights exactly how im-

portant that role is to have a strong safety net, to make sure that when the volatility happens, whether that volatility comes from weather, or whether that volatility comes from markets, or whether that volatility comes from conflict across the ocean in a place like Ukraine."

Russia's unjust war against Ukraine, a country often referred to as the "breadbasket of Europe," has contributed to a global food crisis while providing a warning sign to farm policy critics that dismantling the federal policies that support our own domestic agricultural producers will harm our national security.

'We in the United States have to be extremely vigilant to... make sure that we can still produce our own food and not be reliant on actors in the international community who want to take us down or who want to reduce our power, or in some cases, who could withhold certain products from us that would eventually weaken us to a point that was unacceptable," Pfluger explained.

It's clear: strong farm policies keep us fed, clothed, and secure.

acates three ESA rules Federal judge

A federal judge in the northern district of California remanded and vacated three Endangered Species Act (ESA) rules recently that had been finalized during the Trump administration. The 2019 rules all were challenged in court by environmental activists. The changes that will take effect immediately include going

back to the blanket 4(d) rule that existed during the Obama administration, returning to a listing process that does not consider economic impact and reverting to the prior process for interagency consultation. According to NCBA, this regulatory whiplash increases uncertainty, ex-pands government overreach under

ESA and will worsen the delays and backlog of the consultation process.

The Trump-era rule had repealed the blanket 4(d) rule and prohibited the U.S. Fish and Wildlife Service (FWS) from automatically extending the protections against take that apply to endangered species to cover threatened species as

well. Vacating the Trump rule now returns FWS to a blanket 4(d) rule. where threatened species automat-ically have the same protections against take as endangered species. The original in-tent of section 4(d) of ESA was for the secretary of inte-

rior to examine the need for take protections on an individual basis based on need. The now-vacated Trump rule also had directed FWS to consider the possible economic impact a listing might have on rural communities before making a deci-

sion. Vacating the rule re turns the agency to a state where they no longer are required to make this consideration. Additionally, Section 7 of ESA requires federal agencies to consult with FWS or the National Marine Fisheries Service before engaging in any action that potentially could affect a listed By Ace Reid species. To improve the efficiency of that process, BULL the Trump administration

FEED STORE had codified alternative consultation mechanisms and established a deadline for informal consultations, providing greater certainty to regulators and impacted producers, landown-ers and communities. Vacating the rule now removes those revi-

"I'm shore learnin' the livestock business, it took five years 'fore I went broke this time!"

sions from the books. NCBA is actively involved in defending the ESA rules put in place by the previous administration. Staff are evaluating next steps and will continue advocata regulatory proach to ESA that is science-based, rooted in current conditions on the ground and cognizant of the economic impact these decisions have on rural communities.



EARL "I'VE BEEN GETTIN' THE SILENT TREATMENT FOR A WEEK, BUT WE SEEM TO BE GETTIN' ALONG A LOT BETTER EVER SINCE IT STARTED." Big Dry Syndicate

by Glenn Brunkow

Haying is coming along well. I have to admit that it is hard to watch from the sidelines. I had my second hip replaced a week ago and the recovery is too slow for me. I know it is right where it should be, but I would rather be on the interstate instead of this winding country road I seem to be on. One would think that being forced to spend the afternoons inside instead of out in the hun-dred-degree heat would be a good thing. It is not.

Being on the injured list is tough, but it is also humbling at the same time. I don't know what I would do without my family and the way they have stepped up. I know Jennifer is exhausted from doing chores, going to work, coming home and haying. I know our vows were for better and for worse, in sickness and in health but that kind of glossed over the sickness part. More specifically it did not say "in sickness during hay season." I am not sure what I am going to do to make this all up, but I do know she mentioned a nice, full, hot meal in town would be a good start.

My kids have really stepped up and helped even though they are really busy with their studies. This has been a great way for me to take a step back and realize that my kids are grown, capable adults. While it has been tough, I have been able to find many silver linings in my downtime. Things more important than watching every Gunsmoke or rodeo on TV. Of course, it is also startling to realize that I can be replaced and maybe even upgraded.

The most humbling part of all of this is the help and concern I have gotten from all of my neighbors and friends. I don't know why it is so hard to accept help, but it is. In agriculture we often are hurt by this pride that we can do everything on our own and that it is a sign of weakness to let others help. I know they have their own things to do, and I don't want to be a burden. The bottom line is that they would not have offered if they did not want to help and I can only hope that what goes around, comes around and someday I can help them too.

I have come to this realization. I am healing up just fine, the timing of this stunk but I didn't really have a choice. It was truly a blessing to find the doctor I did and to be able to heal as fast as I am; this all could have been much worse and taken much longer. I am also blessed that this is some-thing that can be fixed, and I will be good as new in a couple of weeks. There are others that are not that fortunate, and I realize how lucky I am. I have been asked if I am bionic now. I don't know about that, but I am rapidly approaching being the six-million-dollar man.

The two most important things I have learned during this is one: how important my family is. They have carried on the farm while juggling a full-time job and school responsibilities and we have hardly missed a beat. I have also learned that everyone in my family is capable of doing anything on this farm. It is a lesson my father never learned, and I wonder just how much he missed because of it. I have to admit that there is a bit of satisfaction knowing that things can get done without you. I am surprised because I would not have guessed that revelation.

Secondly, I have learned that I have the greatest friends and neighbors. The people around me will take time out of their schedules when I need them. Even those who just checked in to see if I was okay were greatly appreciated. It is both humbling and heartwarming to know that people really care. I will never forget how important neighbors and friends are again. I only hope that I can have an opportunity to help them as much as they have helped me. Even people I do business with have gone the extra mile to make sure we had what we

Hopefully, I am on the downhill part of this recovery and soon things will be back to whatever it is that I call normal. I do hope that when that happens that I will remember these lessons I learned. Some say it takes a village to raise a child. I don't know about that, but I do know it takes a village to heal a farmer.

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K-State researchers successfully test first vaccine to prevent bovine anaplasmosis

A new study involving the College of Veterinary Medicine at Kansas State University is paving the way forward in controlling a devastating and costly cattle disease: bovine anaplasmosis.

The research, "Targeted mutagenesis in Anaplasma marginale to define virulence and vaccine de-velopment against bovine anaplasmosis," was published in May by scientists from K-States's diag-nostic medicine and pathobiology department in PLOS Pathogens, a high-impact scientific journal. Co-authors include a group of scientists from St. George's University in the West In-

dies, Animal Dis-eases Research Unit of the U.S. Department of Agriculture in Pullman, Washington, and veterinary researchers from the anatomy and physiology, and clinical sciences departments at K-State.

"Our publication is unique and is the first in addressing the urgent need to develop a vaccine against an important tick-borne disease," said Roman Ganta, the study's senior/corresponding author and the principal investigator of the project. "Currently, there is no effective vaccine in the market, so this effort required innovative approaches in

developing a vaccine.

Ganta, a university distinguished professor and director of the Center of Excellence for Vector-Borne Diseases in the College of Veterinary Medicine, said bovine anaplasmosis is a disease with major economic concerns not only in the United States, but around the world.

"Economic impact of the disease is in the billions of dollars of losses annually throughout the world," Ganta said. "The disease can spread rapidly by mechanical transmission routes, besides being transmitted by over 20 different tick species." Ganta said anaplasmosis is the primary reason many producers feed cattle with the antibiotic sup-plement chlortetracycline, which has been proven not to be effective.

"We started a major research project in defining the disease throughout California and parts of Missouri and Kansas," Ganta said. "Independent of animals fed with antibiotic supplement, about 50-60% of all animals are positive for the disease. Farm practices, however, may make some difference in controlling the disease, but having a good vaccine is the best option for controlling the disease. We are the only research team working on it and developed the first protective vaccine."

"This is a truly outstanding paper that represents what I believe to be the greatest advance in anaplasmosis vaccine development in 50 years," said Hans Coetzee, study co-author, university distin-guished professor and head of the K-State's anatomy and physiology department. "We are grateful for the opportunity to collaborate with Dr. Ganta's group on such an impactful project."

"Our work has been identified as 'very significant.' so we were able to

receive support from an en-dowed fund managed by the California Cattlemen's Association," Ganta said. "In particular, this funding is by the Russell L. Rustici Rangeland and Cattle Research Endowment, which primarily supports faculty at the University of California, Davis. Due to our research's impact, the majority of the funding — 92% — came to us through a collaboration with a colleague at that university."

Ganta has been invited to share his research at the National Cattlemen's and Beef Association meeting in Reno later this month.

9-8-8 Mental Health Lifeline launches in K

Laura Kelly ceremonially signed Senate Bill 19, bipartisan legislation that launches 9-8-8 as the official 24/7 three-digit dialing code for the National Suicide and Crisis Lifeline. Beginning Saturday. July 16, Kansans and all Americans can call 9-8-8 during mental health and substance abuse emergencies. Kelly joined Sedgwick County Commissioners, legislators, and local advocates for the celebration at the Sedgwick County Courthouse.

"With 9-8-8, we are on the path to reversing our country's mental health crisis and get-ting Kansans the help they need," Kelly said. "Just as every American knows to call 9-1-1 in times of emergency, every American – and every Kansan – will soon know to call 9-8-8 when they or a loved one is facing a mental health or substance abuse crisis."

Governor Kelly announced in January of this year that the Kansas Department for Aging and Disability Services (KDADS) received the Lifeline's 9-8-8 State Planning Grant through the nonprofit Vibrant

Emotional Health to develop plans to build the infra-structure for and grow access to the Lifeline's new three-digit 9-8-8 number. Governor Kelly signed SB 19 in June so that going forward, each July 1 \$10 million in state general funds will be appropriated to fund 9-8-8 with no access fee for Kansans.

The new "9-8-8 Suicide and Crisis Lifeline" will connect callers to the National Suicide Prevention Lifeline and offer a broader range of services for people experiencing a mental health crisis or substance use crisis. Callers will be connected to resources in their local community and to in-person crisis services where available. Kansans who dial 9-8-8 will be routed to a local crisis specialist trained to address unique and needs, concerns which may include assessment, stabilization, referral, and follow-up.

"Kansas is the 14th state to fund 9-8-8 through legislation and we are excited for the national launch of 9-8-8," KDADS Behavioral Health Services commissioner Andrew Brown said. "KDADS has been working throughout the Kelly administration to increase the infrastructure in Kansas for suicide prevention and crisis intervention in preparation for 9-8-8. This will be the first of several milestones that will help Kansans experiencing a crisis get improved access to the help they need during a crisis."

partnered KDADS with the Kansas Suicide Prevention HQ, Johnson County Mental Health, COMCARE of Sedgwick County, HealthSource Information Solutions, and TBD Solutions LLC, to develop clear road maps to address coordination, capacity, funding, and communications surrounding the launch of 9-8-8 and collaborated with state leadership, suicide prevention experts, people with lived experience, and others to create a 9-8-8 implementation plan and support the Lifeline's operational, clinical, and performance standards that allow access to care.

Individuals will still be able to access the ten-digit National Suicide Prevention Lifeline (1-800-273-8255) after the July 16 implementation of 9-8-8. The current Lifeline and

9-8-8 will be available 24 hours a day, seven days a week via call, text, or chat. All phone service providers are required to connect callers who dial 9-8-8 to the Lifeline.



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Susan Schrick, Hiawatha, Wins This Week's Grass & Grain Recipe Contest And Prize Winner Susan Schrick, Hiawatha:

ZUCCHINI JELLY

- 3 cups shredded zucchini
- 3 cups sugar
- 3 tablespoons lemon juice

3-ounce package any flavor gelatin

Mix zucchini, sugar and lemon juice in saucepan. Bring to a boil over low heat. Stir in gelatin, Ladle into hot sterilized 8-ounce jars, leaving 1/2 inch head space. Seal with 2-piece lids. Yield: 3 to 4 8-ounce jars.

Rose Edwards, Stillwater. Oklahoma:

MOZZARELLA

- PASTA SALAD 2 cups corkscrew pasta, cooked & drained
- 10 ounces fresh spinach, torn into bite-size pieces
- 2 cups chopped, cooked ham or bacon
- 1 can diced green chiles, drained
- 2 cups cubed Mozzarella cheese 3/4 cup shredded Cheddar cheese
- 1 can black olives, sliced or whole, drained
- **Dressing:** 1 cup oil
- 1/2 cup Parmesan cheese
- 1/4 cup white vinegar 1/2 teaspoon pepper
- 1-2 garlic cloves, minced

Toss together pasta, spinach, ham, green chiles, Mozzarella cheese, Cheddar cheese and olives. Cover and chill. To prepare dressing place all ingredients in a blender and blend until smooth. Pour over salad and toss to coat. Serve immediately. Chill leftovers.

Jackie Doud, Topeka: "Good served as a side dish with meat.'

CHEESY ONION CASSEROLE

- 2 tablespoons butter
- 3 large sweet white onions, sliced
- 2 cups shredded Swiss cheese, divided
- Pepper to taste
- 1 can cream chicken soup 2/3 cup milk 1 teaspoon soy sauce
- 8 slices French bread, buttered on both sides

In a skillet melt the butter: add onions and saute until slightly brown. Laver onions, two-thirds of the cheese and pepper in a 2-quart casserole. In a saucepan heat soup, milk and soy sauce. Stir to blend. Pour soup mixture over layer in casserole and stir gently. Top with bread slices. Bake for 15 minutes at 350 degrees. Push bread slices down under sauce and sprinkle with remaining cheese.

Bake 15 minutes longer.

Carol Nelson, Topeka: "This is a delicious vegetable casserole and wonderful use for zucchini."

YUMMY ZUCCHINI CASSEROLE

- 7-8 medium zucchini, cut into 1/4-inch slices 1 cup water 8 slices bacon, diced
- 1 large onion, chopped
- (about 1 cup) 1 large garlic clove, minced
- 4 slices white bread, diced 2 cups shredded Cheddar cheese
- 1 teaspoon salt
- 1 teaspoon Italian seasoning 15-ounce can tomato sauce 1/4 cup grated Parmesan cheese

Cook zucchini in boiling salted water until tender, about 5 minutes. Drain. In skillet cook bacon until crisp. Remove from pan. Add onion and garlic to skillet and saute until onion is tender. Drain. Preheat oven to 350 degrees. Stir onion mixture and bacon into drained zucchini. Add remaining ingredients except Parmesan cheese and toss until well-coated. Sprinkle zucchini mixture into a 9-by-13-inch baking dish. Sprinkle with Parmesan cheese. Bake 20 minutes or until bubbly. Serves 10 to 12.

Millie Conger, Tecumseh: CABBAGE BAKE

- 1 large cabbage (about 2 pounds), cored & coarsely chopped 1/2 cup rice
- 1 onion, chopped 2 cups tomato sauce, divided 2 eggs
- 2 teaspoons salt 1/2 teaspoon pepper 1 1/2 pounds hamburger

1/2 pound ground pork

1/2 cup beef broth Set oven to 350 degrees. In a large pot of boiling

salted water cook cabbage until crisp-tender. Drain well: rinse and drain again. In a saucepan of boiling salted water cook rice for 5 minutes. Drain. In a bowl combine onion, 1/4 cup tomato sauce, eggs, salt and pepper; mix with a fork. Add rice, ground hamburger and ground pork; blend well. In a greased 9-by-13inch pan spread half the cabbage in even layer. Cover with all of meat mixture. Spread remaining cabbage on top. Combine remaining tomato sauce and beef broth and pour over casserole. Cover tightly with foil. Bake 1 hour then uncover and bake 15 minutes longer. Kellee George, Shawnee:

MEAT & POTATO

- **CASSEROLE** 4 cups thinly sliced &
- peeled potatoes 2 tablespoons butter, melted
- 1/2 teaspoon salt 1 pound ground beef
- 10-ounce package frozen corn, thawed
- 1 can cream of celery soup 1/3 cup milk
- 1/4 teaspoon garlic powder 1/8 teaspoon pepper 1 tablespoon chopped onion
- 1 cup shredded Cheddar cheese, divided

Toss potatoes with butter and salt. Arrange on bottom and up sides of a 12-by-8inch pan. Bake at 400 degrees for 25 minutes or until almost tender. In a skillet brown beef; drain. Sprinkle beef and corn over potatoes. Combine soup, milk, garlic powder, pepper, onion and 1/2 cup cheese. Pour over beef mixture. Bake uncovered at 400 degrees for 20 minutes. Top with remaining cheese and bake 2-3 min-

Edwards. Kimberly 9-inch pan. Pour cream over Stillwater, Oklahoma: all and sprinkle with salt SURPRISE POTATOES and pepper. Cover with foil 6 medium white potatoes, and bake at 325 degrees for 1 1/2 hours. Uncover and bake 30 minutes longer until 1 cup whipping cream lightly brown on top. Salt & pepper to taste Shred the potatoes and Baking With Sugarbuns By Michele Carlyon Meshing Two Worlds to Bake Eggs, Bacon And Corn

utes longer to melt cheese.

There are so many things that I love about Kyle, but one of my favorite things is exploring new recipes together or introducing each other to the recipes we grew up with and the stories behind them. I love seeing how different recipes made an impact on his life and the ones that he has carried with him into adulthood.

His family has a cookbook that they have passed down and some of his favorite recipes from childhood are tucked away amongst the pages. There is the homemade spaghetti sauce that has been altered ever so slightly from person to person until they have each found a version that they love, Kyle included. One of my favorite recipes that is tucked into that book would have to be his family's chicken vegetable soup; I absolutely love it. The cookbook is stacked with everything from a delightful spinach dip to entrees, to the perfect fruit dip and everything else in between.

My family has recipes that were passed down, but most of those are taught to people rather than being written down. Kyle has gotten introduced to quite a few of our delicacies, even finding some that he likes. My mom has made an orange salad for as long as I can remember and Kyle could literally eat the whole bowl of it, he loves it. He also has become quite smitten with one of my favorite childhood recipes, hamburger casserole.

The other night I talked him into trying a version of another one of my childhood favorites ... eggs. bacon and corn. It was a recipe that Mike learned in Boy Scouts that we have continued to make throughout the years. Kyle and bacon do not get along, so we switched out the bacon with sausage and enjoyed it all the same.

rinse in cold water. Drain

throughly. Place in a greased

As we continue building a life together, meshing our two worlds, I look forward to continuing to get to learn about each other through the foods we make together and the stories that come along the way.

Eggs, Bacon & Corn 1 dozen eggs

- 1 pound bacon (can use sausage if bacon does not agree with you)
- 1 can whole kernel corn

In a bowl, whisk together the dozen eggs and set aside. Drain can of corn and set aside.

Cut bacon into about half-inch pieces and put them all in a skillet over medium heat. Cook until desired consistency is reached and then drain all excess grease from the skillet. Return the bacon to the skillet and back to the medium heat and pour the corn in. Stir the corn and bacon together and then pour the whisked eggs into the skillet. Stir consistently until the eggs are done and the corn is hot. Serve while hot and enjoy!

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 Instagram: boobs brains and baking.

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

Bargain Bites: Eating Right When Money's Tight there are ways to stretch Plan your weekly menu tion Facts Label to get the

By Katherine Pinto, EFNEP & SNAP-Ed Agent,

Wildcat Extension District I think it is safe to say, we have all seen the rise in food costs happen over

the past several months. Al-

though this increase in cost

can seem overwhelming,

your food dollars. The tips below will help you know the right steps to take in planning your meals ahead of time, how to budget for smart food choices, and how

to prepare low-cost recipes!

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1. Check your recipe carefully to make certain all ingredients are accurate and instructions are clear. 2. Be sure your name, address and phone number are on the entry. Please include a street address with your recipe entries. A post office box number is not sufficient for prize delivery. Allow 3-4 weeks for delivery.

3. Send it to: Woman's Page Editor, Grass & Grain, Box 1009, Manhattan, KS 66505, OR e-mail at: auctions@agpress.com

don't just purchase it because you have a coupon. **During Shopping** Never go to the store hungry - Everything looks good when you are hungry! Your shopping list might grow by a few items if you do not eat before you go shopping. Compare products for the best deals - Use unit pricing and also the Nutri-

Use store coupons, sales,

or discount cards - If you

have a coupon for an item

that you normally don't eat,

Preparing in advance will best product for your monhelp you know what you ey. Don't be afraid to try the need to purchase and will store brand version! also let you know what your need to use before it goes

After Shopping

Store your groceries right away - Putting your groceries up as soon as you reach your destination is key to avoiding any food safety concerns.

Separate and store if you purchase a large amount of fresh food, like meat, poultry, or fish, divide them into meal-size packages, label them, and freeze them for later use.

Visit snaped.fns.usda. gov for more information on this topic. Katherine Pinto, EFNEP and SNAP-Ed Agent, kdpinto@ksu.edu or

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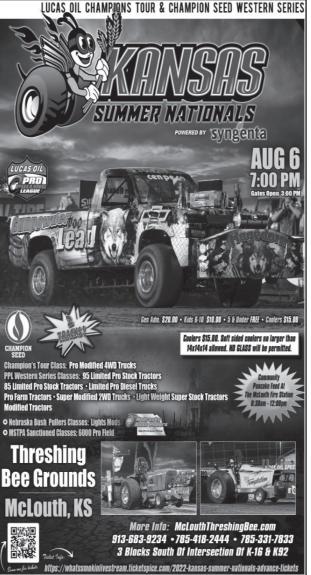


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The Snake

We hardly ever get to do anything for Fourth of July because we're busy with brome seed and haying. This year it rained. So I decided to invite some people over to relax and socialize a little bit. We barbecued some hot dogs and hamburgers, had the sides and desserts and had a nice supper: an anomaly all its own this time of year. We live on sandwiches so a hot meal was a nice change-up.

We were playing pitch, one table inside, one outside. I was playing outside and went out; it was getting dark. So I hurry to go lock the chickens in and get the eggs. We accidentally have four baby chicks that a hen is raising. Moral of that story, pick up your eggs no matter how many extra you have. Anyway, we built them their own pen so they can come outside but she can keep them together a little bit. Then we carry them back and forth in a dog crate. I went and got her, carried her to the trailer and am collecting the eggs. We have one hen that is trying to be broody. Don't worry, I learned my lesson enough to get her eggs. So I lift her up, grab her eggs and go to the last box.

Mind you, I'm just putting the eggs in my shirt. I didn't take the time to grab a carton or bowl or anything. It's just dark enough in the trailer in the laying boxes that shadows are happening. I go to reach in the last box, but don't quite get my hand in before I see enough to know that it is not, in fact, a shadow like I thought it was. That's right, there is a snake in the last box. Keep in mind, I am a normal warm-blooded human being and absolutely hate snakes. I'm married to a man that hates them almost more

than me, if possible. I calmly, yes calmly, I'm very proud of myself, exit the trailer and get a bit away before absolutely freaking out and begging anybody

to go kill my snake for me. I make a pass through the house on the way to grab the shovel begging on the way through for somebody to kill it for me.

Long story even longer, Matt made a valiant effort at being brave, but didn't actually kill the snake; somebody else did. Just so I don't completely throw him under the bus, it is true that I only had one sharp shovel available; Matt was trying to use a very dull and rusty spade. And he got more involved than I did in the snake-killing so kudos to him. In the end the snake was killed. Yes, he was just a black or rat snake, but when in my chicken coop, you gotta go. Sorry. In all the years I've had chickens, we have never had a snake in the trailer. Ever.

We haven't had people over to our house in a very long time. We hardly ever get to do anything Fourth of July weekend. Any other day Mr. Snake (I don't know how to sex snakes so I have no idea if this was a boy or girl snake. Is there different terminology for snakes? Heifer or bull? Do they turn into cow snakes after so

long? Do snakes get bigger the older they get? If so this was a grandpa snake! All random thoughts, but this is how my brain works. I wouldn't want to offend the dead snake by calling it the wrong gender. But in this day of age, maybe the snake was confused about its gender too. Who knows.). Back to the thought ... any other day, let's just go with "very large and terrifying snake" instead of trying to assign a gender, would have got off scot-free because there is no way I was going to kill it and Matt probably wouldn't have been home. And even if he was, his solution would have been to pull the chicken trailer to a very far away ditch and say bye-bye, chickens.

How absolutely fortunate I was that I had a house full of people that love me enough to kill a snake for me. Keep in mind, they're probably never coming back; we'll have to get new friends. So if you're in the market for friends, we're available. Must be willing to kill snakes but I will feed you! How lucky for me this snake decided that day to crawl in our chicken coop.

For those of you that know me personally, you know that sometimes I tend to exaggerate, especially at the length of snakes I see. They are terrifying and sometimes a six-inch snake turns into a six-foot snake. But and I have witnesses this was not one of those times. Later in the evening a few of us were still sitting around, including the one that killed the snake and he asked how long we thought it was. He said three feet ten inches. I immediately said five feet. They thought I was crazy. So we measured the stupid thing. 63 inches. 63 inches! That's more than five feet long. Another two inches and the thing would have been bigger than me!

One more side story, we didn't grow up with chickens. But I can remember growing up we always heard the story of my Aunt Jean that did have chickens. One day she saw a snake in her chicken coop. As it was trying to get away, she grabbed it with her hands and pulled it back out of its hole so she could kill it. She wasn't going to let it get away! May there be more strong women in the world like Aunt Jean because I am not one of them. And if any of those snake-killing people want to come live with me and care for my chickens, you can have your choice of

All right, this is long enough. The life lesson here is to have a house full of people every night when you go to check the chickens. Okay, maybe that's not the life lesson. The lesson is to never go in your chicken coop to get eggs. Maybe that isn't it either. I'm not sure what the life lesson is just yet. I just know that I'm incredibly grateful there is one less snake in the world. Though Brooke was googling and said they travel in pairs, so I have not relaxed my guard any. On that note, happy July. Stay safe and always bring a flashlight and sharp shovel if you collect eggs.

Kelsey Pagel is a Kansas farmer. She grew up on a cow/ calf and row crop operation and married into another. Kelsey and her Forever (Matt) farm and ranch with his family where they are living their dream and loving most of the moments. She can be found on IG & FB @teampagel.

Happy Golden Anniversary! Wheat **Foods Council Celebrates 50 Years**

In the early 1970s. wheat foods came under attack for containing a high portion of carbohydrates, which many consumers believed made foods fattening. In May 1972 the wheat commissions from Kansas, Texas, Colorado, South Dakota and Nebraska met to coordinate a response from wheat farmers. The result was the establishment of the Wheat Foods Council (WFC), which celebrated its 50th-anniversary in June.

WFC Today, the uniquely remains an organization whose membership encompasses the entire wheat foods value chain. Kansas Wheat is a member, along with grain producers, millers, baking suppliers, life science companies and cereal manufacturers. Together, the WFC stays true to its original mission — to help increase the awareness of dietary grains as an essential component of a healthful diet.

To do so, the Council develops sound nutritional, educational and promotional programs that reach health and nutrition professionals, opinion leaders, media and consumers. The organization works with a wide swath of key audiences, including health and nutrition professionals, educators, supermarket and retail dietitians, health-conscious consumers, media, chefs and cooks and personal trainers.

WFC members gathered at the organization's summer meeting in Charleston, South Carolina, to celebrate the anniversary, elect new officers and set priorities for the upcoming year. The new officers were seated for WFC's 2022/2023 fiscal year: Kent Juliot, Ardent Mills, Chair; Ron Suppes,

Kansas Wheat Commission, Vice Chair, Mark Hotze, Corbion, Treasurer/Secretary and Darby Campsey, Texas Wheat Producers, Immediate Past Chair.

The board also reviewed the WFC's programs from the prior fiscal year, including:

* Educating personal trainers, whose advice reaches and influences more than 30 million consumers each week. In April 2020 when COVID-19 shut-down in-person activities and events, the WFC began creating short educational videos and sharing them through social media. By June 2022 the videos had more than 18 million views.

Conducting a chef workshop focused on the plant-forward food trend at the Culinary Institute of America in April 2022, giving menu development chefs a hands-on demonstration of how wheat foods fit into this trend.

* Organizing the Future of Food Forum in conjunction with the chef workshop, which included speakers addressing plant-forward foods, sustainability, managing supply chains and innovation

and collaboration. All of these topics were identified by menu development chefs as critical to the future of their companies.

The WFC plans to continue these efforts and more — as it has for the last five decades. Learn more about the WFC at https://www.wheatfoods. org/ — a robust website with community forums, webinars and interactive elements that provide a one-stop source for everything about wheat and grain foods nutrition from the latest news and research to interviews with leading experts on indepth and trending topics, tips, informative links to government agencies p.m. and end around 8:30 and other relevant sites, recipes and more.

And what would a website devoted to wheat foods be without lots of recipes? Find recommendations and recipes for all types of meals ranging from Tomato Basil Pasta to Fruit Dessert Pizza and everything "grain" in be-

Written by Julia Debes for Kansas Wheat

For audio version, visit kswheat.com

Preserving Your Garden Bounty Classes Offered In August

Home preservation of foods has been a foundation of Extension Education. Learn the science behind the processes and the how and why of canning food that will be safe

Wildcat Extension District Family and Consumer Science agent, Holly Miner is offering Food Preservation workshops in August. Miner said, "She enjoys helping others learn about food preservation and the classes are a fun way to learn the latest recommendations."

The workshops will be evening sessions and will cover water bath, and pressure canning methods of preservation. Workshops will begin at 5:30 or 9 p.m. Classes are open to adults and older youth. A grant received by the Wildcat District allows the \$25 fee to be waived for these classes.

Each participant will learn the most up-to-date information on preserving food at home, while also preparing and processing the foods themselves and taking home a jar to enjoy. Please pre-register for the August classes by July 28 at 620-331-2690.

Workshops will be held at the Wildcat District Fredonia Extension Office on Aug. 2, the Community Building in Altamont on Aug. 9, and the Girard Extension Office on Aug. 11.

For more information about this or any other topic related to nutrition, food safety or health contact Holly Miner at haminer@ksu.edu or call 620-331-2690 or 308-224-4628.



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Sandhills and Dry Storms -Part 4, The Blizzard Aftermath

tractor, which was perched on a snow bank like a tortoise on a post. I wasn't 50 yards outside the barnyard. I walked back to the shop and found myself a grain scoop. I had been digging for about 20 minutes, clearing the back end of the tractor and underneath it, when the boss drove by in the cake truck. I stopped and watched him pass as he shook his head in disgust. I continued to

After about 45 minutes, I had cleared enough snow from under the back end of the tractor and the front of the sled that the tractor duals were touching the ground. I decided to give

I sat there in my feed it a try. Pay-dirt! I backed that rig up about 30 feet and dropped the blade to the gravel and hit that drift with enough force to open the gate at Fort Knox, and barreled through. My rig was too wide for the auto gate, so I went through the wider "cow gates" at the side of each auto gate (An "auto gate" is what Sandhillers call a cattle guard). As the boss had passed me by while I was busy digging out, he drove through the auto gate, which was blown clear of the snow. But as I came around toward my haystack I saw his truck sitting in a threefoot snow drift in front of the next auto gate. I kind of smirked to myself, but

pulled slowly up to match his flatbed with my dozer blade to offer to push him through. He was digging in front of his truck, and looked over the hood at me with a sour expression and waved me off! I obliged, and chuckled as I headed around through the cow gate toward the hay stack yard.

The eight-ton slide stack is something I had never seen in Kansas. It's a century-old system that us-es dump rakes to build large windrows which are swept up with a "sweeper," a large scoop of sorts, usually on the front of a reversed tractor or old truck chassis. The sweeper pushes the hay onto the slide which is then pulled up the guide beams by cable until the hay drops into the cage, a nearly square containment about 20 feet diameter, which can unlatch and be pulled away from the stack when finished. The stackers, usually a couple of strapping young men, then stack the hay with pitchforks, balancing it throughout the stack, and as the cage fills, they will arrange the hay with stems pointing toward the edges of the stack

and mounding the center up, with the whole purpose being to shed water. It's an art, and when I first saw it being done, I was fascinated. This process was still being done by some, such as the Haythorn Ranch, entirely with draft horses, as late as the mid 1980s. What I witnessed was using motorized equipment, but no less interesting.

By the time I had retrieved my second stack and headed back to Headquarters to feed the west pasture, the boss had dug out and was gone.

Thankfully, we weren't calving, and it wasn't cold enough to freeze the windmill tanks over with fresh water flowing freely, so after chores we met at the horse barn for further orders for the day. The boss was saddling up when I got there. He asked me if I had a deer tag. I answered the affirmative and he said, "If you want to go hunting, this afternoon is your best chance." He shoved his scoped rifle into the scabbard hanging off his saddle. "I'm hunting west of Headquarters. You can go anywhere but that di-He untied his rection."

horse and bridled up. As he led his mount through the big open double doors he tossed a piece of advice over his shoulder, "Let somebody know which direction you're going, and be back by dark." I stood in silence for a full minute pondering my options. There was a nice Muley buck with a perfect two fork rack (each side) as wide as his ears that I'd been watching over in the south valley, about a twomile ride across the hills. I quick-ly grabbed a halter and caught my little bay gelding, saddled up and rode over to the house to tell my wife where I was going. I grabbed my binoculars and my Model 70 Winchester, which I slung

across my back, and a dry

pair of gloves. I kissed my daughter, then her mother, tied a thermos of coffee to my saddle and stuffed a leftover portion of homemade bread into my coat pocket, and mounted up. "I'll be back by dark. If not, call Andy. I'll be hunting east of them." She said, "I won't hold supper."

I smiled at her and rode off at trot. This was something I had dreamed of for years; hunting mule deer a-horseback!

Kirk Sours is a ranch manager in northeast Kansas, shaped and molded by the Kansas prairie since the age of eight. His major hobby is writing commentary, short biographical stories, and he is active in the community. Email him at: sours.kirk@ yahoo.com.

Kansas Livestock Association endorses Kellie Warren

The Kansas Livestock Association has announced its endorsement of battle-tested conservative Kellie Warren to be the next attorney general of Kansas.

"KLA believes that Senator Kellie Warren is the right person to be the next Attorney General of the State of Kansas," said KLA president Phil Perry. "As chair of the Senate Judiciary Committee, she fought for the private property rights of Kansas landowners, while working closely with stakeholders in the agriculture industry. Her ability to listen to agriculture, while advocating for rural Kansas values sets her apart from the other candidates

"It's an honor to have the full support of the Kansas Livestock Association. They know me, and they know my record," said Warren. "Our farmers and ranchers need an attorney general who will listen to them, who will fight for them, and who will win for them. That's what I've done as Senate Judiciary Committee chair, and that will continue to be my approach as Attorney General."

The Kansas Livestock Association's endorsement of Senator Warren follows endorsements from Kansans for Life, the Kansas State Rifle Association, the Kansas Chamber, Kansas Family Voice, and Americans for Pros-



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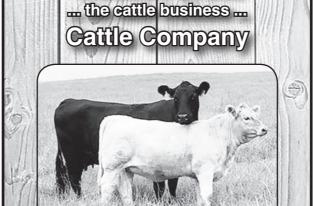
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Preparing sheep and goats for breeding

By Adaven Scronce, diversified agriculture and natural resource agent,

Wildcat Extension District If you plan on breeding goats or sheep in the fall, now is a good time to start planning for breeding season, and to evaluate your does and ewes to make sure they are in good condition before breed-ing. Does and ewes that have good body condition are more likely to breed and successfully have lambs or kids in the spring.

The body condition score of does and ewes should be evaluated before breeding season. Body condition refers to the fleshiness of an animal. To know the body condition score of a doe or ewe, owners should feel over the ribs and on either side of the spine by pressing down with their fingers to determine the amount of fat cover a goat or sheep has. After feeling

the amount of fat cover, a body condition score can be given. For sheep and goats, body condition scores are given on a scale of 1-5, one being emaciated and five being obese. Does and ewes should have a body condition score of 2.5 to 3.5 at the beginning of the breeding season. If does and ewes become too thin fail-ure to reproduce, low twinning rates and low weaning weights can result. If they are over-conditioned, it can result in does and ewes developing pregnancy toxemia or having difficulty giv-ing birth.

If does and ewes have a body condition score lower than 2.5, they need to be placed on good quali-ty pasture and/or supplemented with grain to increase their body condition. Grain that has a crude protein level of 10-12 percent should be supplemented at a rate of half a pound to one pound of grain per head per day for at least two to four weeks before the start of breeding season. Increasing the amount of grain fed before breeding season is also referred to as flushing and can increase the number of lambs/kids born and decrease the number of open does and ewes

While it can be easy to focus on the does and ewes, it is important to remember the bucks and rams as well. Bucks and rams should also be examined prior to breeding season. Their body condition should be determined the same way it is for does and ewes. Prior to breeding, bucks and rams should have a body condition score of 3 to 3.5. If bucks and rams are too thin during breeding sea-son they will have decreased stamina. However, if rams and bucks over-conditioned they may lack the vigor needed to breed large numbers of does and ewes. If rams and bucks are over or under conditioned it can result in fewer females being bred and settling during the first heat cycle, which can lead to a longer lambing/kidding season in the spring. If rams and bucks are too thin they should be given supplemental feed starting roughly a month before breeding season to increase their body condition and ensure they are in good physical shape.

In addition to evaluating the body condition of males and females before breeding season, it is also important to check them for internal parasites and check their hooves. When determining the body condition of the animal, it is also a good time to check their FAMANCHA score and/or take a fecal sample to do a fecal egg count to determine if the animal needs to be dewormed. Males and females that FAMANCHA have a score higher than three and/or have a high fecal egg count should be dewormed prior to breeding. If you plan on flushing your does or ewes, they should be dewormed prior to flushing. Does and ewes that are wormy will not increase in body condition from flushing and their ovulation rate may not increase. This can increase the likelihood of does and ewes that are wormy to not breed at all or conceive and then later abort.

Before breeding, sheep and goats' hooves should be examined as well. When examining the hooves, you should look for sores, overgrown hooves, or strange odors that can indicate infection or foot rot. Hoof trim-

at weaning.

increase.

As ewes and does

enter different production

stages, their target BCS

changes - and changes to

their diet should follow

suit. This 1-5 BCS scale

is especially useful before

breeding as energy re-

quirements and BCS goals

ming and any treatments needed for foot rot should be done a couple weeks before breeding season to ensure that goats and sheep will be ready for breeding season. Does and ewes that are lame may not let bucks breed them. Bucks and rams will be the most active during this time of year and it is important that their hooves are in good condition, a buck or ram that is lame may not cover does consistently or might give up altogether.

Having goats and sheep in good condition prior to the start of breeding season will lead to a more successful breeding season this fall and a successful lambing/kidding season next spring.

For more information, please contact Adaven Scronce, Diversified Agriculture and Natural Resource Agent, adaven@ ksu.edu or (620) 331-2690.

breeding Flushing sheep, goats leads to season success

Nutritional flushing is a key component to sheep and goat breeding season success. The flushing process involves increasing nutrition and energy intake before breeding season starts. This elevated nutrition helps optimize ovulation, conception and embryo implantation rates, which can result in a higher lambing or kidding percentage.

"Implementing a flushing program on your farm can optimize the percentage of lambs or kids on the ground and help put more money in your pocket," says Clay Elliott, a small ruminant nutritionist with Purina Animal Nutrition.

> The low-down on flushing

Flushed ewes and does have a higher chance of breeding at first service, while those fed a lower nutrition level are more likely to miss this first breeding window.

"Breeding ewes and does in their first estrus or heat cycle provides more value when selling weaned lambs and kids. says Elliott. "Breeding earlier means lambing and kidding sooner, which provides an advantage of additional days to gain weight before weaning compared to their younger counterparts - which can ultimately boost the number of pounds sold post-weaning.

As ewes and does age, reproductivity tends to decrease. Additionally, terminal breeds typically produce fewer offspring than maternal breeds. Because flushing supports ovulation and embryo implantation rates, even ewes and does with historically lower reproductive perfor-mance can have success.

Don't skimp on key nu-

While adding extra grain to the diet will ramp up energy levels, don't forget about these key nutrients as you plan your flushing program:

Vitamins minerals: Every nutrition program should start with vitamins and minerals. Regardless of the production stage, these two components remain crucial to both the mom and her off-

Fat: Increasing fat in the diet also increases energy intake. And, fat's influence on reproductive hormones sets ewes and does up for successful con-

Protein: Maintaining protein levels between 10-16% of the total diet is ideal for reproduc-

tive health.

Flushing should begin around 45-60 days before breeding and continue into the first stages of gestation. Adding a complete feed or a high-fat supplement product to the mix will ensure ewes and does meet their energy require-

time. "Once ewes and does have confirmed pregnancies, diets can back down to an average nutrition level with pasture and a supplement tub," says Elliott.

ments during this critical

Keep body condition score in mind

As a primary indicator of energy reserves, body

Continuing Education

Units have been applied

for and are pending.

condition score (BCS) al-"Flushing aims to bring lows producers to evalubody condition scores up ate the nutritional needs to 2.5 to 3.0 before breedof the flock or herd. By ing and into the first stage meeting your BCS targets, of gestation," says Elliott. ewes and does can take "Getting ewes and does to less time to breed and this condition can lead to have heavier lambs or kids optimal conception and embryo survival rates.

Using a planned-out flushing approach in the lead-up to breeding season will go a long way towards reproductive and performance success. Contact your local Purina nutritionist or visit purinamills.com to learn more.



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'ield Day set for Aug. 4 registration at 8:30 a.m., e-mail shachtell@unl.edu. South Central Ag Lab F Come see what's going Insect Management -

on at the University of Nebraska-Lincoln's South Central Agricultural Laboratory (SCAL) field trials on Thursday, Aug. 4. The field day includes topics focusing on improved crop production and profitability. The event is designed so guests can customize their day to select the tours they are most interested in. Topics and presenters include:

Nutrient Management Insights from long-term research trials and digital agriculture technologies in corn and winter wheat

Lana Puntel, Extension soil fertility and precision ag specialist; Guillermo Balboa, research assis-tant professor; Jose Cesario, graduate student; and Christian Uwineza, graduate student

Soil Health - Using cover crops, biochar, and other practices

Katja Koehler-Cole, Soil Health Management Extension educator; Michael Kaiser, assistant professor in Applied Soil Chemistry; and Britt Fossum, graduate student

Disease Management -Corn and soybean disease updates

Tamra Jackson-Ziems and Dylan Mangel, Nebraska Extension plant pathologists

Corn and soybean insect updates

Robert Wright, Nebraska Extension entomologist and Ron Seymour, Nebraska Extension educator

Irrigation Management Remote sensing for irrigation scheduling

Steve Melvin, Cropping Systems Extension Educator and Christopher Neale, director, Water for Food Institute

Weed Management -Cover crop for weed suppression in corn and soybean: Planting green and intercropping

Amit Jhala, Nebraska Extension Weed Management Specialist

The event begins with

registration at 8:30 a.m., opening remarks by Charles Stoltenow, Dean of Nebraska Extension at 8:45 a.m. followed by tours of research sites through 3:05 p.m. John Shanahan with Agoro Carbon is the keynote speaker during the lunch break presenting "Carbon market potential for U.S. producers'

SCAL is located at 851 Hwy. 6 near Harvard.

Details, map and registration at https://go.unl. edu/scalfieldday. There is no cost to attend the field day, but participants are asked to preregister at the website by Aug. 1 for plan ning purposes.

informa-For more tion, call (402) 762-3536 or

LAND AUCTION - WILSON COUNTY, KS

TUESDAY, AUGUST 9, 2022 - 6:00 PM AUCTION LOCATION: Americas Best Value Inn, 2404 E Washington St, FREDONIA, KANSAS

81.5 Acres of Quality Tillable Farm Ground *INVEST IN LAND!

LAND LOCATION: From HWY 400 at the northwest edge of Fredonia, South on Harper Rd (2nd St) 3/4 mile to 1200 Rd., West on 1200 Rd 3 1/4 mile

Maps & Terms. LIVE & ONLINE BIDDING AVAILABLE

REALTY

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Land Brokers

Visit WWW.sundgren.com for More Details, Pictures,

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A COW.



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Flint Hills Discovery Center to host National Day of the Cowboy event on July 23

Join the Flint Hills Discovery Center for National Day of the Cowboy, an annual celebration of the national icon and the history and culture of the American West! This year's event is on Saturday, July 23 with festivities at the Discovery Center from 10 a.m. to 3 p.m.

Wrangle up the family for a day filled with activities embracing the Wild West. Meet Rodeo Queens, dress up like a cowboy, and take a western style photo. You can also hitch a carriage ride until 1 p.m.

"National Day of the Cowboy is a fun and educational way to honor the American cowboy and the ranchers today who continue that legacy," says Jonathan Mertz, FHDC event supervisor. "Celebrating and sharing this icon with the community is something we look forward to every year."

You'll have the chance to brush up on your skills of:

- Branding
- Bison Chip Tossing
- Roping
- and more

Regular admission rates apply. Visit www.flinthillsdiscovery.org/cowboy for more aformation.

Kansas 4-H Youth Leadership Council inspires youth of all ages By Annika Wiebers, tan. "I saw (Council mem-scenes was worth it be

By Annika Wiebers, K-State Research and Extension news service

When most folks think about 4-H, the ideas that typically come to mind are projects and leader-ship.

Leadership for life is an important value for the Kansas 4-H program, which offers many opportunities for youth to grow in those skills. One of these opportunities is the Kansas State 4-H Youth Leadership Council.

"The first time I heard about 4-H Youth Council was the first time I attended a state event (the Kansas Youth Leadership Forum)," said Chanae Parker, a three-year council member from Manhattan. "I saw (Council members') dedication to 4-H and the difference they were able to make and was inspired. I wanted to be able to give back to the organization that challenged and shaped me into the individual I was then. So, I ran for (election to) Youth Council."

Youth Council members include many of the highest performing 4-H'ers in the state, but they don't reach that level right away.

"I started 4-H as a Cloverbud at five years old," Parker said. "Prior to Council, I was heavily in-volved in my club and my county. I had served every office in my 4-H club and been an officer for our county 4-H Council. I was a county 4-H Ambassador and had attended state and regional events like Kansas Youth Leadership Forum, the Northeast Leadership Event, and Citizenship in Action. When I decided to run for Council, I spent months refining my application, developing my speech, and practicing interviewing."

Once she was elected, Parker said the real work of being on Council begins.

"Council not only hosts events for Kansas 4-H, but provides opportunities for youth to develop into effective leaders, citizens, and servants in their communities," she said. "This is what 4-H is all about and Council is a key piece in the growth and development of our future lead-

Parker noted that serving as chair of the Kansas Youth Leadership Forum planning committee "was one of the most challenging and impactful things I've done on Council."

"It took months of planning and taught me a lot about leadership. As a committee, we worked ex-tremely hard to host the best event we could, and I am so proud to say that it was a success. All of the work behind the

scenes was worth it because I know we were able to make a difference for Kansas 4-H'ers and inspire them to make a difference in their clubs and their communities."

Beyond planning events, Council members serve as mentors – inspiring and encouraging the next generation of leaders.

"As a younger 4-H'er, I admired the 4-H Youth Council members for the work that they did," Parker said. "They had already attended the events, they had learned and grown in 4-H and so easily could have decided to step out. But they didn't. Council isn't about growing individually; it's about the impact you are able to make on others because of the meaningful events and work you are able to do."

"The ability to give back to 4-H and shape the organization for others is truly inspiring to me, and the heart of what I do on Council. One of my favorite parts about state events is watching delegates take home what they learned to share with others in their counties."

Parker said being a member of the 4-H Youth Council involves significant responsibilities and hours of hard work, but the members attest to their growth in leadership, communication and or-ganization skills.

She said: "Serving on Youth Council has made me the person I am today. It has instilled in me a passion for giving back and working for others. I'm truly grateful for the challenges and tribula-tions that I have encountered and how they have enabled me to grow. I cannot wait to see what the next generation of leaders can do for this organization."

More information on opportunities available through Kansas 4-H is available at local Extension offices in Kansas.

Soybean farmers appreciate backing for bio-based products in new pilot program

USDA has announced available funding for the Bioproduct Pilot Program, which was established through the Infrastructure Investment and Jobs Act that was signed into law last November. The pilot program, which was a priority of the American Soybean Association during drafting of the legislation, will provide \$10 million over two years to study the benefits of bio-based products for construction materials and consumer products.

Dave Walton grows soybeans in Iowa and is an ASA director and chair of the association's Biofuels and Infrastructure Committee. Walton said, "The Bioproduct Pilot Program will provide a great opportunity to expand upon what we in the soy family have been doing for years — creating plant-based, sustainable construction materials and consumer goods using U.S.-grown soy. ASA was glad to work with Senator Rounds and others to support the inclusion of this language in the Bipartisan Infrastructure Law and we welcome this announcement from USDA."

The Bioproduct Pilot Program is administered through the National Institute of Food and Agriculture, and more information can be found at www.nifa.usda.gov/grants/ funding-opportunities/bioproduct-pilot-program.





We want to see your Kid's Corner pages!

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

*Contest will run July 5th, 12th, 19th, and 26th — 4 chances to win!!!!

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

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

Week 2 - July 12:

CONGRATULATIONS Rachel Mullet of Wakefield, KS

-YOU COULD WIN:

Week 1 - July 5:

CONGRATULATIONS Tate Wenderott of Alma, KS

(1) Kid Pass to the Flint Hills of Vary Center;

(1) Kid Pass to the Flint Hills of Vary Center;

(2) Kid Pass to the Flint Hills of Vary Center;

(3) Kid Pass to the Flint Hills of Vary Center;

(4) Kid Pass to the Flint Hills of Vary Center;

(5) Care of Vary Center;

(6) Kid Pass to the Flint Hills of Vary Center;

(7) Kid Pass to the Flint Hills of Vary Center;

(8) Care of Vary Center;

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(4) Care of Vary Center Hills of Vary Center;

(5) Care of Vary Center Hills of Vary Cen

Week 3 - July 19:
CONGRATULATIONS Jason Pralle of Blue Valley, KS

(2) Kid Farel Fir Fin Virish Alexery Center Week 4 - July 26 - FINAL WEEK!

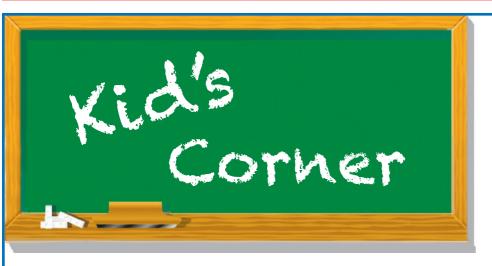
Deadline to win: 9 a.m. Friday, July 22nd

Family Pack (2 Adult, 4 Kid Passes) to the Flint Hills Discovery Center

*If no submissions are received for a contest week, contest will be pushed back to the next week until all 4 prizes have been won.

BE SURE TO INCLUDE
YOUR NAME, AGE,
MAILING ADDRESS &
PHONE NUMBER WITH
EACH SUBMISSION.

Mail your submissions to:
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Manhattan, KS 66505
Or stop by the office:
1531 Yuma St.,
Manhattan, KS 66502



Kid's Corner All Summer!

Watch for

Unscramble the words below to reveal fun Summer activities!

- 1: NGIDGNARE
 2: WMNMGISI
 3: INGIKH
 4: IKNGIB
 5: KNICCGIINP
 6: LPGINAY
- J: CPEDENING: 5: 2MIWWING: 3: HIKINH: 4: BIKING: 2: LICKNICKING: 6: LFALING: 4: LIZHING: 4



Making crop insurance rates more accurate expected indemnity under tribution or pattern that

A new study by agricultural economics experts from Texas A&M AgriLife and Virginia Tech makes a strong case for using historical weather information in crop insurance programs for even more accurate policy pricing.

The study "Incorporating historical weather information in crop insurance rating," authored by Yong Liu, Ph.D., a Texas A&M AgriLife Research agricultural econ-omist and assistant professor in the Texas A&M Department of Agricultural Economics, Bryan-College Station, was recently published online in the American Journal of Agricultural Economics. It was co-authored by Ford Ramsey, Department of Agricultural and Applied Economics, Virginia Tech. About crop insurance

rates

Crop insurance is the most expensive agricultural policy in the U.S., with over \$110 billion in liability in 2020. Agricultural producers and others purchase crop insurance to protect against either the loss of crops due to natural disasters or loss of revenue due to declines in the prices of agricultural commodities.

In the U.S. federal crop insurance program, a key principle in the design of crop insurance policies is that they should be actuarially fair, meaning the the policy should be equal

to the premium. "Achieving this objective requires accurate pricing of policies, and accurate pricing depends on accurate modeling of all the variables causing losses," Liu said.

Traditionally, he said, known or fixed historical yield data or historical loss cost data have been used to estimate yields or loss costs.

"For example, soil information is fixed or known at the time the policy is sold," he said. "Incorporating this type of known information is conceptually similar to dealing with time trends and other fixed determinants of yields or loss costs."

Liu said loss probabilities and expected losses are then used to calculate premiums. Many rating procedures exclusively use fixed or deterministic variables in determining expected losses.

"But it is widely recognized that a large part of the observed variation in vields and loss costs is due to changes in weather and other variables," Liu said. "Current loss variables used in determining crop insurance rates can be amended to incorporate other applicable variables like the weather."

Stochastic variables, like the weather, have a random probability dis-

may be analyzed statistically but not be precisely predicted. Unlike fixed variables, stochastic variables are unknown when the policy is sold.

"Including these variables, most particularly incorporating long-term weather data, would allow for a more thorough and accurate estimation of the distribution over time.' Liu said.

The case for using historical weather information

Liu noted that in the federal crop insurance program historical weather information is already incorporated to a degree through after-the-event rate adjustments. He also noted that reinsurers frequently use weather information when evaluating crop insur-ance portfolios and risk.

"Yield distribution that is related to weather has been shown to roughly approximate yield distribution based on observed yields," he said. "And several previous studies have discussed the potential benefits of using weather or climate information in crop insurance rating."

He also noted weather data are often available over a greater period than yield data or loss-cost

"This is especially the case at the farm level where yield records are notoriously short, in counties where production is sporadic, or for crops with limited historical production," he said.

Liu said if weather data are useful for making predictive assumptions about yields and loss costs, then incorporating historical weather information in setting crop insurance rates should provide additional accuracy.

"Our approach uses observations where the loss variables are missing," he said. "Including historical weather data necessarily involves observations with missing dependent variables.

About the study

In this study, Liu and Ramsey implemented a Bayesian approach for incorporating his-torical weather information into crop insurance ratings. The Bayesian paradigm has the advantage of reflecting uncertainty from all unknowns instead of only known information.

"We treated the cases of weather information as a stochastic predictor of both crop yields and loss cost ratios," Liu said. "In the case of yields, we used county-level corn yields from seven states in the Midwest. For loss cost ratios, we used county-level corn and soybean loss cost ratios in Illinois and Iowa for the federal crop insurance program."

The models were em-

bedded in a Bayesian algorithm that used historical weather information to estimate the required actuarial factors for determining crop insurance premiums, he said.

Liu said that in the case of yields, the study was able to demonstrate that:

- A private insurer incorporating weather information can develop rates that give them a competitive advantage over crop insurance rates set by the government.

– This advantage is strengthened when there is additional historical weather information. Using more informative data that covers a longer period will improve the over-all accuracy.

- This advantage is slightly stronger at lower coverage levels.

He said in the case of loss costs, the study was able to demonstrate that:

Historical weather-related loss cost distributions differ modestly from those without historical information.

- Weather weighting can be incorporated through a streamlined single-step process.

Liu said the study makes two primary contributions to the discussion of crop insurance. The first was implementing a theoretically consistent Bayesian approach for incorporating historical weather data into estimat-

ing conditional predictive yield distributions.

"In this, we show that incorporating historical weather information results in economic gains for private insurers by demonstrating the efficacy of the proposed approach," Liu said.

He said the second contribution was implementing the same approach for loss cost distributions.

"This involves a single algorithm for bounded loss costs, and we find that the historical weather-conditioned distributions differ modestly from empirical distributions based on observed loss costs," he said.

Liu said the study results have implications for the design of crop insurance programs both in the U.S. and worldwide.

"This study suggests that increasingly large and often disparate data sets can be combined and used to improve agricultural policy," he said. "As measurement and model-ing of weather and crop production continue to evolve, so will crop insurance products and actuarial methodologies.'

He said by developing rates that reflect heterogeneous risk exposure across locations, the methods developed in the study may encourage increased program participation and minimize adverse selec-

Record ag land values in Nebraska attributed to high commodity prices, low interest rates

agricultural land in Nebraska for the year ending Feb. 1, 2022, averaged \$3,360 per acre, about a 16% increase (\$465 per acre) over the prior year's value of \$2,895 per acre, according to the final report from the University of Nebraska-Lincoln's 2022 Farm Real Estate Market Survey.

This marks the largest increase in the market value of agricultural land in Nebraska since 2014 and is the highest non-inflation-adjusted statewide land value in the history of the survey.

Crop prices, purchases for farm expansion and interest rate levels were identified in the report as the major economic forces that guided the higher market value of land across the state. The financial health of current owners and non-farmer investor interest in land purchases also played a role, according to survey results

The survey's final report was published June 30 by the university's Center for Agricultural Profitability, based in the Department of Agricultural Economics. It provides current pointin-time estimates of agricultural land values and cash rental rates, broken down regionally across a variety of land types and

Based on 2022 market values, the estimated total value of agricultural land and buildings in Ne-braska rose to \$161.2 billion. according to Jim Jansen. an agricultural economist with Nebraska Extension. He co-authored the survey and report with Jeffrey Stokes, a professor in the Department of Agricultural Economics.

"Despite rising input costs that remain a challenge for many operations,

commodity prices for major crops grown across Nebraska rebounded significantly in 2022 with disruptions in supply chains and weather concerns," Jansen

He added that producers with livestock face further challenges from drought conditions across major grazing regions, as well as higher feed expenses.

"Farmers may anticipate higher revenues from rising commodity prices but may face similar chal-lenges as ranchers and livestock producers when navigating higher input expenses," he said. "Farm or ranch profitability remains tied to making informed decisions.'

Rates of increase were the highest in the northwest, northeast, east, south, and southeast districts as these areas averaged 15% to 21% higher for the all-land average. These districts trended along with the rate of increase of 16% for the state.

Western regions of Nebraska, including the north, central and southwest districts, reported smaller all-land average value increases ranging between 11% and 13%. The north district reported the smallest increase at 11%.

Statewide, the final report found that estimated values of center pivot irrigated cropland rose by about 17%. Dryland cropland values rose between 15% and 19%. Grazing land and havland market values range from about 10% to 12% higher than the prior year.

Survey results also revealed that cash rental rates for dryland and irrigated cropland trended higher, averaging about 10% to 20% higher than the prior year. Survey participants indicated crop prices as the major factor contributing to the increase in rental rates.

Grazing land and cowcalf pair rental rates trended steady to higher, with average statewide rates increasing about 6% to 8% over the prior year.

The outlook for future gains in farm real estate values remain strong, according to Jansen, as only three economic forces were noted in the report as somewhat negatively impacting farm real estate values: property tax levels, farm input costs and fu-

ture property tax policies. The Nebraska Farm Real Estate Report is the final product of an annual survey of land professionals, including appraisers, farm and ranch managers and agricultural bankers. Results from the survey are divided by land class and agricultural statistic district. Land values and rental rates present-ed in the report are averages of survey participants' responses by district. Actual land values and rental rates may vary depending on the quality of the parcel and local market for an area. Preliminary land values and rental rates are subject to change as additional surveys are returned.

the results of the final report during a free webinar at noon on Aug. 4. Registra-tion, as well as the full

the Center for Agricultural Profitability's web-site. https://cap.unl.edu/reales-

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ESTATE AUCTION

SATURDAY, JULY 30, 2022 — 9:00 AM From Olsburg, KS go approx. 1/2 mile West to Booth Creek Rd. then 3.5 miles South to 13945 Booth Creek Rd., OLSBURG, KANSAS

4X4 MULE, MOWERS, MINI VAN, TRAILERS & MACHINERY (Sell at 12:00) * SQUEEZE CHUTE, ALLEYWAY, PORTABLE PANELS & MISC. (sell after coins) GUNS (sell at 10) * COINS & STERLING (sell after guns, approx. 10:20) * HOUSEHOLD GOODS, COLLECTIBLES & MISC. (sell first) GLASSWARE, POTTERY & COSTUME JEWELRY (sell after household goods, maybe 12:00).

ALSO: Lot of quilts & other cloth goods, trombone, artwork by area artists, crocks, huge stamp collection.

*The property will be open for your inspection Thursday & Friday, July 28 & 29, from 10am until 5pm. May run TWO RINGS All Day! CLERK: Shirley Riek, 526 Fredrick, Clay Center, Ks. 67432

See July 12 issue of Grass & Grain for listings & Go to kretzauctions.com/global or kansasauctions.net/kretz for many pictures, larger listing & additional information

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SATURDAY, **JULY** 30, 2022 — 9:30 AM Auction will be held at the corner of Hawley & Spencer in FORMOSO, KANSAS

CAR, MOTORHOME.

TRUCKS 2003 Lincoln Town Car, 4 door, V8, 229,000 miles; 1990 Winnebago motorhome, 35' Chieftain, inside good, 55,778 miles, 50 miles on tires, runs & drives good; 1961 GMC 4000 truck V6, 4 sp 2 sp, 15' bed w/roll over tarp w/hoist been setting; (2) 1960s C60 trucks, 15' beds, 6 cy, 4 speed, been setting;

Dual loader w/grapple fork. TOOLS, HOUSEHOLD, OTHER New Frigidaire 15 cu refrigerator; 1940s wood & electric cook stove; antique organ; 4 swivel kitchen chairs: 70s china

cabinet; rocker; flat top trunk; 4-drawer file; end table; Pitney Bowes scale; Domestic sewing machine; new steel security cabinet; new lawn mower engine; new lawn mower in box; propane bottles; records; trash cans; new VCR; new fans; new kitchen appliances; new convection oven; Hepa cleaner; glass; Assortment new hand tools, sockets, squares, screwdrivers, circular saws; reciprocating saw; new 36" exterior door; new windows; new oil; car tires new & used; 4'x8' foam insulation; pallet mover;

Mastercraft 22" lawn mower; table saw; wood shelves; wash tub; new hanging lamps; water pump pressure tank; Schwinn mens bike; Yard Machine 42" riding mower; Yard Machine mini tiller; chain saws; dollies; garden hose; Bowflex treadmill; bench grinder; Eureka vacu-um; stainless sink; tarps; caulk; trailer jacks; new floor jacks; loading ramps; benches; bicycle; rope; new boots; luggage; gas generator; rear hitch carrier; clear insulation; steel posts; new & used tin; very large assortment of other items.

Werner 17' extension ladder: NOTE: Warren has many new items. We will be selling 3 pieces of real estate and the contents

of the homes. Check our website for pictures at www.thummelauction.com WARREN L. HEINEN ESTATE

Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067

Hearings scheduled for Sheridan 6 and GMD 4 LEMA plans

Public hearings will be conducted in western Kansas on July 26 and 27 to consider the proposed renewal of two Local Enhanced Management Area (LEMA) manage-ment plans in the region. The hearings will provide the opportunity for in-person oral statements, and written comments may be submitted prior to the hearings.

- Sheridan 6 LEMA hearing: Tuesday, July 26, 2022, 2:00 p.m. at the Sheridan County Courthouse, 926 9th Street in Hoxie.
- GMD 4 LEMA hearing: Wednesday, July 27, 2022, 10:00 a.m. at the City Limits Convention Center, 2227 S. Range Avenue in Colby.

A LEMA is a tool that allows local groundwater management districts (GMDs) to set goals and corrective control measures to aid in water conservation. The Sheridan 6 LEMA was established in a designated area in Sheridan and Thomas counties in 2013 and extended in 2017. The GMD 4 LEMA was established in a designated area in Cheyenne, Decatur, Rawlins, Gove, Graham, Logan, Sheridan, Sherman, Thomas and Wallace counties in 2018. For both LEMAs, the plans for proposed renewal were previously submitted to the chief engineer by GMD No. 4 and were found to be acceptable for further consideration.

The chief engineer will serve as the presiding officer at both hearings and will consider the effectiveness of the current LEMA plans' provisions in meeting those plans' stated goals. The chief engineer will also consider whether conditions within the LEMA boundaries continue to warrant the designation of a LEMA and whether the corrective controls proposed by the LEMA plans are in the public interest and will ultimately de-termine

whether the LEMA plans should be renewed as pro-

Anyone may submit written or oral statements to be included in the record of the hearings. Oral comments will be accepted only in person at the public hearings. Written comments may be submitted at the public hearings or sent to KDA, labeled either "Sheridan 6 LEMA" or "GMD 4 LEMA," or c/o Ronda Hutton; 1320 Research Park Drive, Manhattan, Kansas 66502, faxed to 785-564-6777, or e-mailed to Ronda.Hutton@ks.gov. Written comments will be accepted if delivered on or before August 9 (Sheridan 6) or August 10 (GMD 4), 2022.

More details about the hearings including a copy of the proposed plan and related documents are available online at www.agriculture.ks.gov/LEMA.

One increasing problem in forages – hay stands in particular - is Hemp dogbane. A perennial, Hemp dogbane grows to three to five feet tall and is confused with milkweed species due to similar appearance and presence

of milky sap (Note: only fresh plants will show sap). Stems have a reddish tint at maturity and become woody at the base.

Long, horizontal rootstocks result in plant colonies. Plants start as a single taproot, but have been

found to grow to a depth of almost six feet and spread laterally as much as ten feet in one season. This vigorous growth and a long growing season (it flowers from May to September) makes it a formidable foe in forage stands. The term dogbane is said to refer to the plant being poisonous to dogs. The same plant resins can also harm cattle under the right conditions.

If plants are few and forage stands are competitive, Hemp dogbane might not be a significant weed of concern. If any production 'hiccup' (or combination of) occurs, Hemp dogbane can become a significant problem. From a cultural control standpoint, make sure stands are healthy, with good fertility and appropriate harvest management. A competitive grass stand is your best weapon against allowing Hemp dogbane to gain a foothold.

If pressure is increasing, mowing is an option. Missouri research sug-

first North American ag solar installation in

gests a mid-August mowing could help to reduce the size of weed patches the next season while frequent mowing throughout the season could reduce plant vigor and seed production. Unfortunately, even repeated mowing isn't likely to eliminate this perennial.

Chemical control options include many of our common active ingredients: 2.4-D. dicamba. fluroxypyr, and triclopyr. Missouri research sug-

mented hundreds of suc-

cessful projects globally,"

says Darin Sothers, direc-

tor of key accounts, Valley

Irrigation. "We're proud to

be able to provide growers

in North America with en-

gineered solar solutions,

particularly by collaborat-

ing with our valued and

long-term partner Farm-

ers National Company - a

company that shares our

same sustainability and

Company has always val-

ued conservation efforts

as part of our sustainable

National

environmental goals.

"Farmers

Valley Irrigation announces completion of company's

Limited research in Kansas shows an advantage to products containing fluroxypyr.

Monitor forage stands post-harvest for Hemp dogbane with an eye to a control program if warranted. For identification aids, check out the Hemp dogbane page at the Kansas Wildflowers and Grasses website at: https://www. kswildflower.org/flower_ details.php?flowerID=112.



Seldom Rest Lucy 1165 won grand champion owned female at the 2022 Kansas Junior Angus Association Preview Show, June 5 in Hutchinson. Eva Hinrichsen, Westmoreland, owns the July 2021 daughter of Seldom Rest Sandman 6075. She first won intermediate champion. Chad Oates, Rising Star, Texas, evaluated the 117 entries.

Photo by Jeff Mafi, American Angus Association



Toby has always had a passion for real estate, buying his first farm at just 20 years old. He's grown that experience by helping family, friends and clients in buying and selling properties over the past 30+ years. He and his family own and operate their family farm, along with their on-line marketing company. He lives on the family farm just south of Hanover with his wife, Barbara. Along with the youngest four of their six children.

"When I decided to become a licensed land agent here in northern Kansas and southern Nebraska, it only made sense to confide in the most experienced brokerage I had ever dealt with, and felt fortunate to have grown up practically within shouting distance of Mark and Jeff; the owners of Midwest Land & Home. Hard-working, honest, and without a doubt putting their clients interests at the forefront of every avenue crossed in all real-estate transactions." -Toby Bruna

Toby Bruna, *Land Agent* 785.713.9325 Toby@MidwestLandandHome.com lidwestLandandHome.com When you want the Best. Trust Midwest!



THURSDAY, AUGUST 18, 2022 — 6:00 PM 4-H Building, 901 Otoe Street — BELLEVILLE, KANSAS

1036± ACRES REPUBLIC COUNTY, KS LAND

T 1: S15, T02, R02W, ACRES 156.9, NE 1/4 Less ROW FSA Details: 155.75 Acres, 100.00 Cropland Acres, 70.66 Base Acres (28.3 Corn, 23.98 Soybeans, 15.91 Wheat, 2.47 Grain Sorghum) T 2: S02, T03, R02W, ACRES 74.9, S1/2 SW1/4 LESS ROW FSA Details: 74.57 Acres, 36.86 Cropland Acres, 26.15 Base Acres (12.12 Corn, 10.27 Soybeans, 2.70 Wheat, 1.06 Grain Sorghum)
**TRACT 3: S15, T03, R02W, ACRES 155.4, SW1/4 LESS 4.63 Acre Homesite & LÉSS ROW

 FSA Details: (Estimated due to Homesite not being excluded). 149.84 Acres, 135.52 Cropland Acres, 96.2 Base Acres (44.59 Corn, 37.77 Soybeans, 9.96 Wheat, 3.88 Grain Sorghum TRACT 4: S14, T03, R02W, ACRES 156.3, NE1/4 LESS ROW FSA Details: 155.47 Acres, 154.06 Cropland Acres, 107.64 Base Acres

(49.89 Corn, 42.27 Soybeans, 11.13 Wheat, 4.35 Grain Sorghum FRACT 5: S23, T03, R02W, ACRES 157.8, NW1/4 LESS ROW Acres, 100,00 Cropland Acres, 70,66 Base Acr TRACT 6: S26, T03, R02W, ACRES 30.4, S3/4 SW1/4 SW1/4

LESS ROW FSA Details: 27.77 Acres, 12.38 Cropland Acres, 9.19 Base Acres (4.26 Corn, 3.61 Soybeans, .95 Wheat, .37 Grain Sorghum)
RACT 7: S01, T04, R02W, ACRES 196.35, SW1/4 & SW1/4

NW1/4 LESS ROW FSA Details: 196.10 Acres, 67.24 Cropland Acres, 47.72 Base Acres (22.12 Corn, 18.74 Soybeans, 4.93 Wheat, 1.93 Grain Sorghum) CT 8: S15,T03, RÓ2W, ACRES 76.8, E1/2 SE1/4 LEŠS RÓW

& LESS .5 AC on east side of County Rd 23 SA Details: 155.75 Acres, 100.00 Cropland Acres, 70.66 Base Acres TRACT 9: S15, T03, R02W, ACRES 31.2 in E1/2 of NE1/4 LESS ROW FSA Details: 155.75 Acres, 100.00 Cropland Acres, 70.66 Base Acre

Corn, 23.98 Soybeans, 15.91 Wheat, 2.47 Grain Sorghum) Terms & Possession: 10% down day of sale, balance due at closing on or before 9/21/2022. Buyer to pay 2022 taxes Seller to pay 2021and prior years taxes. Title insurance, escrow and closing costs to be split equally between buyer and seller. Property to be sold as-is, where-is. All inspections should be made prior to the day of the sale. This is a cash sale and is not subject to financing, have your financing arrangements made prior to auction. Midwest Land and Home is acting as a Seller's Agent and represents the seller's interest. All information has come from reliable sources; however, potential buyers are encouraged to verify all information independently. Seller expressly disclaim any liability for errors, omissions or changes regarding any information provided for these sales. Potential purchasers are strongly urged to rely solely upon their own inspections and opinions in preparing to purchase property and are expressly advised to not rely on any representations made by the seller or their agents. Statements

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made the day of sale take precedence over all other printed materials

For Complete Details on each tract & details of the auction, visit www.MidwestLandandHome.com



Buyer granted immediate access to properties for preparation and planting of fall seeded crops, remaining pasture season, and haying opportunities upon signing purchase contract and making escrow deposit.

When you want the Best, Trust Midwest:

partnership with Farmers National Company Valley Irrigation, a numerous benefits for agleader in advancing agriricultural irrigation, incultural productivity, allowing growers to produce more with less through engineered irrigation equipment and connected crop management applications, has partnered with Farmers National Company, the nation's leading land and mineral management firm, to complete the company's first ag solar installation within North America. The installation, which is located in south-central Nebraska on a farm managed by Farmers Nation-

to clean energy. Solar energy

al Company, will provide

sustainable power to the

landowner by efficiently

converting the sun's rays

cluding energy savings, efficiency, reduced environmental impact and potential tax savings through incentive programs. The Ag Solar group within Valley has a large international footprint with more than 700 solar installations worldwide. Valley has now leveraged the expertise of the company's 75 years of experience in providing growers with center pivot irrigation systems and pumping solutions to deliver clean and efficient solar energy to agricul-"Valley offers the most

durable irrigation structures in the field and our solar experts have imple-

farm management practices for landowners since our founding in 1929," says Matt Gunderson, senior vice president of strategy, sales and marketing, Farmers National Company. "We are proud to partner with Valley Irrigation and the landowner to have the first Valley solar-powered pivot in North America and specifically on one

of the farms we manage for a landowner. The opportunity to invest into the farm while the landowner receives additional income from the excess power sold back to the power district makes it a win-win."

The installation is located near Davenport, Nebraska, and will provide solar power to a Valley center pivot by offsetting energy consumption used to irrigate the field. Farmers National Company's landowner client invested in Tier 1 solar panels, which are the highest-quality panels and are also used on major utility-sized installations. They are built to withstand the often-harsh conditions of Nebraska weather, including strong winds and hail. The components/inverters will provide greater than 94% efficiency in converting DC (direct current) energy into AC (alternating current) energy. The pivot size and configuration will produce green renewable energy for the next 25 to 35 years, equaling the lifespan of the pivot. It will also produce recurring

To learn more about Valley corporate environmental, social and governance (ESG) goals, read the 2022 Valmont Sustainability Report.

revenue for the landowner

through a buy/sell agreement with the local utility

group.



SCC CB Diamond Phyllis 137 won reserve grand champion owned female at the 2022 Kansas Junior Angus Association Preview Show, June 5 in Hutchinson. Kelsey Theis, Leavenworth, owns the March 2021 daughter of SCC SCH 24 Karat 838. She first claimed late junior champion. Chad Oates, Rising Star, Texas, evaluated the 117 entries.

Photo by Jeff Mafi, American Angus Association

ESTATE AUCTION REMINDER **SATURDAY, JULY 23, 2022 - 9:30 AM**

16655 SE California, CARBÓNDALE, KANSAS

5 miles West of Overbrook on Hwy 56 to California Rd. turn South 1 ½ miles or 2 miles East of Hwy 75/56 to California Rd. turn South 1 1/2 miles to Auction! WATCH FOR SIGNS! 1952 Dodge B Series Farm **COLLECTOR TRUCK**; 2001 Dodge Grand Caravan Sport **MINI-VAN**; Bass Tracker Special Ed. Pro Team 175XT 17' FISHING BOAT & Trailer; EQUIPMENT: JD 10' pull-type wheel disk; 3 pt. Ferguson 3 btm. plow; JD LX277 Riding Mower; Trailers; Yamaha Golf Cart; 1984 Honda 3-Wheeler; power/hand tools of All Kinds & MORE! 17 FIREARMS & AMMO (9:30) ALL ATF Rules Apply KS Residents. COLLECTIBLES & MISC.: 1950s International Harvesters refrigerator (working!); Greyhound Silver Aluminum Child's Pull-Wagon w/Red Wheels; Sears "Ted Williams" Croquet Set!; Glassware & MOŘE!

See Last Week's Grass & Grain for Listings & Please visit us online: www.KansasAuctions.net/elston for 100+ Pictures! CONCESSIONS: Worden Church Ladies. Social Distancing observed. SELLER: CHARLES WALTRIP ESTATE ELSTON AUCTIONS * (785-594-0505) (785-218-7851)

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(2 DAYS - 700+ Lots - Pocket Knives, Coins, Antiques) Property of CINDY MOWAT & The Late ROBERT MOWAT

Bidding OPEN NOW! Day #1 will begin Closing at 2:00 PM Tuesday, 7/26/22 and Day #2 will begin Closing at 2:00 PM on Wednesday, 7/27/2022

PREVIEW/PICKUP LOCATION: 2452 400 Ave., Herington, KS 67449 500+ KNIVES: (Case XX, Cattaraugus Cutlery, Blish-Mize & Dish-Mize Chester, Buck, Western, Hibbart, Spencer, Robeson, Solingen, Keel Kutter, Wyeths, Hawkbill, Imperial); VEHICLE: Original 1928 Model A 65,676 mi (Barn Find); COINS: Silver Dollars (Morgan x16, Peace x3) Wheat Pennies; Pre-64 (Nickels, Dimes, Quarters, Half Dollars) \$1 Silve Certificates; \$2 Bills; Large Cents; CAST IRON: (Tractors, Model A Cars JD Tractor, Arcade Cars, Train Engines; Train Cars); ANTIQUES: Cast Emblem; Kellogg Crank Phone; Pie Safe; Frosted Glass Hutch with Ro Top and Galvanized Table; Several Mantle Clocks; Antique Clocks; Orga Stools; Louis Lamour Leather Bounds; Stanley Expandable Rulers; An tique Crescent Wrenches; Brass Spy Scope Telescope; Antique Tracto Tool Boxes; Cast Iron Skillets; 8-Tracks; Blue Sears Lantern; Eastlake Ta ble; Tandem Bike; 1936, '42, License Plates; Epiphone Les Paul Pee We Gibson Guitar and Speaker; Steel RC Cola Shelf; Dazey Churn Frame Tractor Seat; Bottle Openers; Skeleton Keys; Brass Cow Boot Jack TOOLS & MISC: American Express 5HP Go Cart; Forney Plug Welde with Leads and Ground; Pliers; Hand Truck; Hand Tools; Large Bolt Bir Tool Boxes; Clamps; Hand Planer; Handy Man Jack; Partial Listing! For full listing, terms & photos GriffinRealEstateAuction.com

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CHUCK MAGGARD 620-794-1673 In Office: Heidi Maggard

BLC Proven Queen 2101 won grand champion bredand-owned female at the 2022 Kansas Junior Angus Association Preview Show, June 5 in Hutchinson. Cheyenne Brunker, Ottawa, owns the March 2021 daughter of Gateway Follow Me F163. She first claimed junior champion heifer. Chad Oates, Rising

Star, Texas, evaluated the 117 entries. Photo by Jeff Mafi, American Angus Association

REAL ESTATE & PERSONAL PROPERTY AUCTION *REMINDER*

SATURDAY, JULY 23, 2022 — 9:00 AM AUCTION LOCATED at 512 N. East St., LEON, KANSAS '(Real Estate Sells After Personal Property): 3 BR, 1 BA, 965 sq. ft. single story house built in 1900 on corner lot.
VEHICLE, FURNITURE & HOUSEHOLD ITEMS

JANET ÁRNOLD ESTATE, SELLERS See last week's Grass & Grain for info or: www.hillsborofreepress.com

VAN SCHMIDT • Auctioneer/Real Estate 7833 N. Spencer Road, Newton, KS 67114 620-367-3800 or 620-345-6879 Schmidt Clerks & Cashiers / Food Available Farmers National Company (402) 496-3276

PUBLIC AUCTION

SATURDAY, JULY 23, 2022 — 9:00 AM 1455 US Hwy 75, BURLINGTON, KANSAS

(From Dairy Queen at North end of Burlington: 2.1 miles North to driveway on East side, turn in, parking in back) LARGE AUCTION-Partial List: 99 Dodge Dakota 2WD, 204,000 mi

98 Buick Park Avenue (high miles); John Deere Z425 zero turn mow er 54", 425 hrs, 1 owner; Arctic Cat 250 4-wheeler 4WD; 71 Honda motorcycle (needs rep); other lawn & garden; Large amount of good ools & shop equipment; Practically new Saw Stop Contractor's table saw; 8000 watt Generator; Black Max 60 gal Compressor; Mig Welder Small Oxy/Acetylene Set w/tanks & cart; Drill Press; Grinders; Crafts nan mechanic tool chests; large amount of wrenches, sockets, tools of all kinds; Musical instruments; deer hunting & processing equip inc.: tree stand, commercial elec meat grinder, food sealer machine camping & fishing items; Frigidaire Commercial grade Upright Freezer Large amount of household items; 401 A Singer Sewing Machine & lots of sewing items, supplies; Vintage items, collectibles & lots of misc NOTE: Plan to be here, lots of shade, something for everyone Concessions: Drinks & Snack items only. Long, long time accumulation. Owners have moved to health care facility.

DUANE & LOIS SMITH, SELLERS



Complete sale bill, terms & pics at: www.kansasauctions.net/kurtz **KURTZ AUCTION & REALTY SERVICE AUCTIONEERS:** Darwin W. Kurtz, 785-448-4152 Col. Ben Ernst, 620-364-6786

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.

Hundreds of auctions, online and in-person. www. kansasauctions.net/gg/

Always great online Equipment auctions

www.purplewave.com Radtke Online Toy Auction (Open now - begins closing July 18) — Selling 550+ lots of pedal cars & tractor, cast iron toys, toy tractors, Structo, John Way prints, Arrowheads & more (items located at Cottonwood Falls) for property of Chris Radtke (collection of the Late Bud Radtke). Held online www.Griffin-RealEstate Auction.com. Auctioneers: Griffin Real Estate & Auction.

Only Only Auction (ends July 19, 4 pm) — 1975 Oldsmobile Royale, 1965 Oldsmobile 442, 1963 Galaxy 500, 1940 Ford, other vehicles & parts, antiques, old ammo boxes, vintage fishing items. shop tools (pickup location Pretty Prairie). Go to www.sund gren.com for bidding info. Auctioneers: Sundgren Realty, Inc.

Thummel Online Auction (bidding opens 8 am July 14 & starts to soft close 6 pm July 21) — Newer Quality furniture & household items, 1968-1970 Corvette new & used parts, tools for Fred Johnson Estate & Jean Johnson. Go to www. thummelauc tion.com. Auctioneers: Thummel Real Estate & Auctions, LLC.

Mowat 2-Day Online Auctions (Open now - Day #1 begins closing July 26, 2 pm; Day #2 begins closing July 27, 2 pm) -Selling 700+ lots including 500+ pocket knives, Original 1928 Model A, coins, antiques, tools & more (items located at Herington) for property of Cindy Mowat & the Late Robert Mowat. Held online www.Griffin Real-EstateAuction.com. Auctioneers: Griffin Real Estate & Auction

July 19 — 8N Ford tractor, JD 322 riding mower, farm & ranch tools, vintage & newer furniture. lawn & garden, antiques

ESTATE GUN AUCTION

SUNDAY, AUGUST 7, 2022 * 12:00 Noon

Doors Open at 10:00 am for Viewing

601 S. Broadway - SALINA, KANSAS

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Approx. 100 lots of Ammunition & Accessories.

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Thursday, August 11, 2022 @ 7:00pm

Where: Prairieland Partners Conference Room

2401 Northview Rd, McPherson, KS.

Located 11 miles west of McPherson at the intersection of

Navajo Rd. and 3rd Ave., 1 1/2 mile west of the

Marquette blacktop (5th Ave) and 3 miles north of 56 HWY

Tract 1: The N/2 of the NW/4 of Section 10-19-5,

McPherson County, Kansas

55 Acre +/- of productive upland tillable

24 Acre +/- of native hay meadow, possible build site

Possession immediately upon closing, subject to tenant

rights through fall harvest on the tillable land, and

November 1, 2022 on the hay meadow acres.

Taxes \$672.50 on 76.9 taxable acres.

FSA Information

54.89 cropland enrolled in ARC-CO base/yield

Wheat 47/53 - Sorghum 2.4/83

All mineral and water rights transfer to Buyer.

Great farm, great views, great build site!

Call or visit our website for sale bill and more info!

SELLER: Roberta M. Reed Trust

Don F. Reed Family Trust,

Advantage Trust Company, Trustee

Ray Swearingen - Broker Cell # 785-452-8498

Derek Isaacson - Sale Agent Cell # 785-452-0566

& collectibles, horse tack & supplies, construction items & more held at Hutchinson for large 2 family estate auction. Auctioneers: Morris Yoder Auction.

July 19 — Land Auction consisting of 292.68 acres m/l of Marion County land sold in 5 tracts. Quality cropland, deer and turkey hunting, rural homesite, older farm buildings & more held Live at Hillsboro with online simulcast bidding www.FNCBid.com. at Auctioneers: Farmers National Company, Ken Springer, AFM/agent.

July 22 — Land Auction consisting 600 acres cropland & CRP in Russell County selling in 4 tracts held at Russell for Witt Trust. Auctioneers: Farm & Ranch Realty, Inc., Donald L. Hazlett, broker/auctioneer.

July 23 — Large auction including 1999 Dodge Dakota 2WD, 1998 Buick Park Avenue, JD Z425 zero turn mower, Arctic Cat 250 4-wheeler, 71 Honda motorcycle, lawn & garden, large amount of good tools & shop equipment, near new Saw Stop Contractor's table, tool chests, deer hunting & processing equip., camping & fishing items, household, sewing items, vintage, collectible & miscellaneous held at Burlington for Duane & Lois Smith. Auctioneers: Kurtz Auction & Realty.

July 23 — JD 2535M zero-turn riding mower, Encore Z Series riding mower, air compressors, power tools, chain & pole saws, hand tools, building supplies, new & used construction tools & materials, collectibles & miscellaneous held at Beatrice, Nebraska for Vernon McAlister. Auctioneers: Jurgens, Henrichs, Hardin, Sommerhalder.

July 23 — Real estate & personal property consisting of a well-kept ranch-style home with 4 bedrooms, 2 1/2 baths on corner lot: 2019 Chevrolet Impala, 2005 Dodge Dakota SLT 4x4, Oak & Walnut furniture, large collection of collectible glassware, Fenton, Hummel figurines & plates & more collectibles yard art, Dixon Speed ZTR zero turn mower, hand tools & more held at Herington for Marcella Hermstein. Auctioneers:

Hallgren Real Estate & Auctions, LLC.

July 23 — Kincaid live auction selling 2008 Dodge Caliber R/T, furniture, antiques & collectibles, jewelry, coins, clothes, crocks, pottery, crafting items, appliances, household, shop & garden & more held live at Council Grove for property of Chervl Kincaid, Auctioneers: Griffin Real Estate & Auction.

July 23 — Vehicles inc. 1985 Chevy Blazer, 2003 Chevy Silverado 1500, 1961 Chevy Camaro. Tools, yard items, household, electronics, fishing & camping items, collector items inc. beer steins & more held at Abilene for Inga Carlow Estate. Auctioneers: Chamberlin Auction Service.

July 23 — Vehicles inc.: 2006 Ford Freestyle. 2003 GMC van. 1961 Ford Falcon, furniture, lots of antiques & collectibles inc. banks, marbles. jars, toys, jewelry, comic books, DeKalb adv. pieces & much more, tools, lawn mower, tiller, saddles & misc. held at Portis for Roger & Levetta Schultze Estate. Auctioneers: Wolters Auction & Realty.

July 23 — 1953 Dodge B Series Collector Farm Truck, 2001 Dodge Grand Caravan mini van, Bass Tracker Special boat, equipment, mowers, firearms, ammo, collectibles & miscellaneous held at rural Carbondale for Charles Waltrip Estate. Auctioneers: Elston Auctions.

July 23 - Real estate consisting of a 3BR, 1BA home, nice location with large trees, storage shed & more; personal property includes 2004 Dodge Grand Caravan, Craftsman riding mower. household & more held at Leon for Janet Arnold Estate. Auctioneers: Van Schmidt Auction, Farmers National Company.

July 24 - Real Estate consisting of a 3 bedroom, 1 1/2 bath home on a large lot with easy access to Seaman High School held at Topeka for Mary A. Levering. Auctioneers: Crossroads Real Estate & Auction, LLC. July 26 — Real Estate & personal property auction consisting of a 2 bedroom, 1 bath home with lots of updates & an oversized two-story garage. Personal property includes furniture, glassware & antiques, vard, tools & outside decor, gun safes, 1957 Chevy Santa Claus, kitchenwares & more held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

July 30 — Huge selection of Arrowheads, jewelry, vintage furniture, Pendleton items, 25+ copper pieces, household & much more held at Osage City for Bonnie Odgers. Auctioneers: Wischropp Auctions.

July 30 — 2003 Lincoln Town car. 1990 Winnebago motorhome, 1961 GMC 400 truck, (2) 1960s C60 trucks, tools, household & more held at Formoso for Warren L. Heinen Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

July 30 — Annual July Consignment Auction consisting of 2500+ Pieces of MACHINERY from Area Farmers and Dealers. Held LIVE at Paris. Missouri with Live Online Bidding at proxibid. com and Bid Now Online bidding at equipmentfacts.com. Auctioneers: Wheeler Auctions & Real Estate (www.wheelerauctions.com).

July 30 - Mule, mower, trailers, livestock equipment, tools, guns, coins, household antiques, goods & miscellaneous held at Olsburg for Leo & Sybil Converse Estate. Auctioneers: Kretz Auction Service.

July 30 — 2003 Chevy Z71 pickup, 1968 Chevy 30 wrecker truck, Ford 3400 loader/backhoe tractor, Arctic Cat 4-wheeler, mowers, shop equipment, household & more held at Newton for Everett J. Brooks Estate. Auctioneers: Van Schmidt Auction.

August 6 - Selling 60 firearms, ammo, knives, power & hand tools & more held at Lawrence. Auctioneers: Elston Auctions.

August 6 — Huge Collectors auction consisting of tractors, tools, Gators, 4-Wheelers, Guns, Ammo, gun cases, license plates, primitives & more held at Rose Hill for David Fisher Estate & Janell Fisher. Auctioneers: Ken Patterson Auctions.

CHUCK MAGGARD

Cell: 620-794-8824

620-794-1673

Sales/Auctioned

Grass & Grain, July 19, 2022 August 7 — Estate Gun Auction consisting of nice variety of 166 guns. approximately 100 lots of ammunition and accessories held live at Salina with Online bidding at Proxibid.com. Auctioneers: Wilson Realty & Auction Service.

August 9 — Absolute Land Auction consisting of 400 acres m/l Cropland, Grass, CRP in Decatur & Norton Counties selling for N.J. Griffith Trust LIVE at Jennings with Online & Phone bidding available: www.farmandranchrealty.com. Auctioneers: Farm & Ranch Realty, Inc., Donald L. Hazlett, broker/auction-

August 9 — Land Auction consisting of 81.5 acres of Quality Wilson County, Kansas tillable farm ground held LIVE at Fredonia with Online bidding information at www.sund gren.com. Auctioneers: Sundgren Realty, Inc., Land Brokers, Jeremy Sundgren, Joe Sundgren.

August 10 — Land Auction consisting of 429.67 acres m/l of Lincoln & Russell County, Kansas land sold in 3 tracts held LIVE at Lincoln and Online at www.RanchandFarmAuc tions.com. Auctioneers: Ranch & Farm Auctions, in cooperation with Whitetail Properties Real Estate, LLC. August 11 — McPherson

County Land Auction consisting of 55 acres m/l of productive upland tillable, 24 acres m/l native hay meadow, possible building site with great views held at McPherson for Roberta M. Reed Trust, Don F. Reed Family Trust. Advantage Trust Company, trustee. Auctioneers: Horizon Farm & Ranch Realty, LLC., Ray Swearingen, broker; Derek Isaacson, sales agent.

Live & Online Land Auction (Bid online August 2-16, 2022) — 315.31 acres m/l of Dickinson County Land consist-

August 16 — Unreserved

Page 11 ing of 293.59 ac. m/l terraced cropland, 12.38 ac. m/l waterways, 9.11 ac. m/l one-mile-long windbreak, quonset & 2 grain bins & more held live at Abilene for Tim & Debra Sanders. Online bidding at www.bigiron.com/realty. Auctioneers: Big Iron Realty, Mike Campbell, listing agent.

August 17 — Land Auction consisting of 15,173.06 acres m/l of Prowers County, Colorado land sold in 15 tracts. Combination of farmland & ranchland located south of Holly, Colorado with good producing irrigated & dryland farmland; spring fed Two Buttes Creek runs through much of the ranchland held Live at Lamar. Colorado with online simulcast bidding at www.FNCBid. com. Auctioneers: Farmers National Company, Mark Callender, AFM/ agent.

August 18 — Land Auction consisting of 1036 acres m/l of Republic County Land. T1: 156.9 ac. m/l; T2: 74.9 ac. m/l; T3: 155.4 ac. m/l less 4.63 ac. homesite; T4: 156.3 ac. m/l; T5: 157.8 ac. m/l; T6: 30.4 ac. m/l; T7: 196.35 ac. m/l; T9: 31.2 ac. m/l held at Belleville with online & phone bidding available. Go to www.Mid west-LandandHome.com for online bidding. Auctioneers: Midwest Land & Home, Jeff Dankenbring, broker; Mark Uhlik, broker/auctioneer.

October 15 — Fink Beef Genetics 36th Annual Sale held at Randolph. December 3 — St. James

Catholic Church Consignment auction accepting consignments for farm equipment, construction equipment, vehicles, hay, farm supplies, hedge posts, livestock equip., estates, etc. held at Wetmore. Proceeds support St. James Church. To consign contact Bill Burdick, Ron Burdiek.

April 8, 2023 — Fink Beef Genetics 37th Annual Sale held at Randolph.

AUCTION 1:7141/11 SATURDAY, JULY 23, 2022 — 10:00 AM

LOCATION: 304 South 4th St, BEATRICE, NEBRASKA RIDING LAWN MOWERS. AIR COMPRESSORS. POWER TOOLS CHAIN & POLE SAWS, HAND TOOLS, BUILDING SUPPLIES COLLECTIBLES & MISC. & MUCH MUCH MORE! See last week's Grass & Grain for listings & Log on to: www.beatrice77.net (Click on The Auctioneers) (View Auction Pictures)

VERNON McALISTER

Clerks: TON - SOL Clerking, Ph: 402-239-8741 AUCTIONEERS NOTE: Vern has an unbelievable inventory of new and used construction tools and materials.

** LUNCH AND RESTROOMS ON THE GROUNDS **

THE AUCTIONEERS * Beatrice, Nebraska 402-520-2911 402-520-0350 402-239-8741 402-335-7937 THE AUCTIONEERS FOR COMPLETE AUCTION SERVICE!

ESTATE & PERSONAL PROPERTY AUCTION **TUESDAY, JULY 26, 2022**

Time: Personal Property @ 5:30 PM (Real Estate sells @ 6:30 PM) AUCTION LOCATION: Held Onsite - 607 Pine St., WAMEGO, KS

DESCRIPTION



This 2 bedroom, 1 bath proper ty in Wamego is a great opportunity as a starter home. The inside has had lots of updates over the years to bring it up to speed. The unique aspect is the OVERSIZED TWO STORY garage with worlds of potential!

Call for your personal showing!

REAL ESTATE TERMS: Property sells AS IS, WHERE IS. 5% non-refundable down payment is required day of sale by check. Buyer must be able to close on or before August 26, 2022. Buyer needs bank letter of loan approval or funds verification. Cost of Owners Title Policy to be split equally between Buyer and Seller. Buyers are responsible for under standing all zoning, building and other regulations associated with the property prior to the day of auction. All announcements day of sale take precedence over written materials. Crossroads Real Estate & Auction

large TV cabinet w/drawers; matching sofa, chair and ottoman; chair & ottoman; antique octagon table & others; KING size Temperpedic Bed w/head & footboards (nice); children's chairs; antique pie safe; round dining table w/4 chairs; kitchen cart w/drawer & shelves; wood storage cabinet; book shelves; floor lamps & others; old wood rocker; maple dresser; glider rocker; round table w/4 chairs; pictures; large mirror; small 5 drawer chest; old trunk; Sylvania TV; fans; clothes rack on rollers: 2 drawer wood file cabinet. GLASSWARE & ANTIQUES: American Fostoria glasses; Wamego, KS mugs; Wattware bow; Marcrest mixing bowl set; Pyrex measuring cups; cobbler shoe stand shoes; glass oil bottle; copper boiler; mirror, brush and comb set; blue jars (root & ball); graniteware; Wolferman's tin; 2 gal. Diamond crock; kerosene lamp; Tyson & Sons Stamp/ Seal (Old); yard sticks; stamp collection & dated packets ers (signed) photos; sev. vintage photos of Wamego; WWII prints porcelain dolls; child's dishes

child's highchair; doll bed.
YARD, TOOLS & OUTSIDE
DECOR: Yard Machine push mower; blower vac; garden tools; porch swing; metal lawn chair: Hampton Bay fire pit; chimenea; hose real coolers; sm. grill; extension cords; new shop lights; alum scaffolding; aluminum & wood stepladders; aluminum exten sion ladders: Craftsman hand tools; router table; belt sanders; hand saws; Dremel; bench arinder: 10" buffer: electric drills; circular saw; battery charger; block planes; Shop Vac tree saws: anvil: floor iacks: 12 v. tow kit (new); c-clamps; files brace bits; squares; misc. hand tools; soldering gun; tool boxes MISC.: Sentinel gun safes (2 w/ keys); 57 Chevy Santa Claus kitchen good (appliances, utensils, etc); fabric steamer; knitting needles; material & fabric new ceiling fans; 1x 4 tongue & groove flooring; tractor seat galvanized buckets; kerosene

Crossroads

LC is representing the Seller. FURNITURE: 1/2 round tables;

(must see); air mail envelopes & stamps; photographs by Ralph Beagler; Fort Leavenworth & oth-

Real Estate BILL DISBERGER, Auction Coordinator/Assoc. Broker TERRI HOLLENBECK, Broker/Owner, 785-223-2947

heaters; crosscut saw; Quili books & LOTS MORE! Check us out on Facebook & Online for more info www.kscrossroads.com **ANDREW SYLVESTER, Listing Agent/Auctioneer,** 785-456-4352

620-921-5642

400+ AC CROPLAND, GRASS, CRP LONNIE WILSON - OWNER/BROKER/AUCTIONEER · 785-826-7800 ABSOLUTE LAND AUCTION **DECATUR & NORTON COUNTIES, KS** TUES., AUG. 9, 2022 @ 10:30 AM, CDT

SELLER: N. J. GRIFFITH TRUST

KINCAID LIVE AUCTION

(Property of CHERYL KINCAID)

SATURDAY, JULY 23, 2022 - 10:00 AM

AUCTION LOCATION: 514 Columbia St., COUNCIL GROVE, KS 66846

* 2008 Dodge Caliber R/T (will sell at 1 pm) * FURNITURE ANTIQUES & COLLECTIBLES * JEWELRY, COINS, CLOTHES

CROCKS & POTTERY * CRAFTING ITEMS * APPLIANCES &

HOUSEHOLD * SHOP & GARDEN For full listing, terms & photos GriffinRealEstateAuction.com

or see Last Week's Grass & Grain for some listings.

Phone: 620-273-6421 Fax: 620-273-6425 ANDY PHIPPS, Auction

GRIFFIN

305 Broadway, Cottonwood Falls, KS 66845

griffinrealestateauction@gmail.com

AUCTION LOCATION: CITY HALL, JENNINGS, KS

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LEGAL DESCRIPTIONS: TR 1: S/2SE/4 of 19-4-25 -72.43 ac cropland TR 2: E/2 of 24-4-26 -80.1 ac cropland, 182.81 ac grass & 51.2 ac CRP MINERAL RIGHTS: All of the Seller's interest will transfer to Buyers at closing

POSSESSION: •Date of closing on grassland & CRP acres

•Jan 1, 2023, on cropland CRP PAYMENTS: Buyer will receive 100% of the 2023 pmts. **CLOSING:** Sept. 15, 2022

ON-LINE & PHONE BIDDING AVAILABLE!! Call Farm & Ranch to register!

FOR A VIRTUAL TOUR VISIT www.farmandranchrealty.com

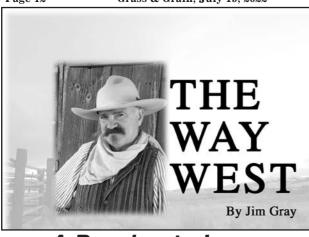
FARM & RANCH REALTY, IN 1420 W. 4TH • COLBY, KS 67701

Toll Free: 1-800-247-7863 DONALD L. HAZLETT

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HORIZON FARM & RANCH REALTY, LLC 1-888-825-1199 www.horizonfarmranch.com

BROKER/AUCTIONEER



A Passion to Learn

Owen Bassett's ever-present cheerful nature and genial spirit could win over even the most adamant antagonist. He was an early resident in the novel Kansas Territory experiment known as popular sovereignty.

Born July 16, 1834, to Samuel and Jane (Bradford) Bassett at Troy, New York, Owen moved to Iowa with his family in 1837. As his first teacher his mother instilled in his young

mind a passion to learn. In 1845 his mother transferred his education to the Denmark Academy at Denmark, Iowa. Established "to instruct the youth of both sexes in science and literature" the academy perfectly fit Bassett's desire to learn.

At age sixteen he taught public school at Fort Madison, Iowa, while continuing his own studies to become a civil engineer. From engineering he ad-



BULLS: \$120.50-\$131.50

vanced to a study of the law. By 1855 he was working in the United States Land Office at Fort Des Moines, Iowa.

With Kansas Territory in his sights Bassett joined Stillman H. Blood and George C. Brackett to establish a real estate and legal firm. He arrived at Leavenworth by steamboat on April 5, 1856. To his dismay Bassett found himself surrounded at midnight by a mob "intent on learning who he was, whence he came, and what was his purpose.

From the steps of the Leavenworth Hotel Bassett surprised his tormentors by thanking them in his usual delightful way. The mob was completely disarmed and Bassett retired quietly to his room.

At Lecompton Bassett again found himself surrounded by a mob. General Joseph C. Anderson came to his rescue. The two men had previously drank together, having thus secured a warm friendship. Upon Anderson's advice Bassett left Lecompton for Lawrence where he devoted his attention to the free-state cause

He was present, May 21, 1856, when Sheriff Jones led the sack of Lawrence. When Governor Reeder's life was threatened Bassett and his partner George Brackett safely es-

556@224.50

corted Reeder out of the territory.

Having safely reached Illinois Brackett and Bassett returned to Kansas by the "overland route" through Iowa and Nebraska. Bassett arrived in Topeka, July 4, 1856, in time to witness Colonel Edwin Sumner disperse the freestate legislature with bayoneted federal troops from Fort Leavenworth.

At Lawrence Bassett

joined the First Rifle Guards in defense of his adopted home. The Guards preferred to call themselves "The Stubbs" because the majority of the men were of short stature. His first night with "The Stubbs" a six-pound field cannon known as "Old Sacramento" was proudly captured from pro-slavery forces at Franklin, Kansas. Victory was sweet for "Old Sacramento" had been used against Lawrence just days before. From that time forward Bassett served as an engineer and quartermaster.

elected to the Kansas Territorial Legislature. As the youngest member of that body he introduced a bill to repeal every general law introduced by the earlier bogus pro-slavery legislature. At the close of the session the pro-slavery laws were publicly burned on Massachusetts Avenue

In 1857 Bassett was

in Lawrence, "and Kansas was proclaimed a free Territory for all mankind."

He was admitted to the bar of Douglas County in 1858 and entered upon the practice of his chosen profession until war broke out in 1861. His first experience in the field involved carrying a dispatch from Fort Scott to General Lyon at Springfield, Missouri. Lyon's death at Wilson's Creek forced Bassett to overtake retreating Union forces at Rolla, Missouri, where he was able to deliver his dispatch to Major Sturgis.

In November he actively worked to raise the 9th Kansas Cavalry and was commissioned lieutenant colonel. By the spring of 1862 the 9th was incorporated into the 2nd Kansas Cavalry. Not content to command from a field tent Bassett rode at the head of his regiment. Kansas Governor Charles Robinson had appointed him Colonel in command of the 2nd. However, the charm that served him so well apparently failed with Brigadier General James Blunt. Blunt blocked the promotion and did all that he could to keep Bassett from advancing.

At Fort Wayne, Indian Territory, under Bassett's command the 2nd Cavalry routed Confederate troops in a bold charge that drove

panicked rebels across the Arkansas River. An entire battery of cannon, a supply train, and fifty rebel soldiers were captured.

Bassett endured a spurious court martial June 10, 1863, under charges preferred by Captain Samuel Crawford, who would rise to Kansas governor a few years later assumed command of the 2nd while Bassett was held under arrest. Ultimately insufficient evidence to sustain the charges tipped in Bassett's favor and he returned to his command.

Bassett rose above his detractors to serve as Chief of Staff of the Frontier Division from May of 1864 until he mustered out of service at the end of his term in January 1865.

Always the student, Bassett considered every detail of army service in all its branches, be-coming an authority on all matters in his division. That passion to learn had served him well. As he returned to civilian life the maxim "never leave the subject half learned" would be his companion, but that is another story to be told on The Way West.

"The Cowboy," Jim Gray can be reached at 220 21st RD, Geneseo, KS. Phone 785-531-2058 or kansascowboy@ kans.com.

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

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

TOTAL FOR THE WEEK: CATTLE 3,652. HOGS 51

8 blk

Ellsworth

	COWS: \$84.5	50-94.00	19 blk	Bennington	554@224.50
			2 blk	Lehigh	428@218.00
	STEER		7 mix	Salina	450@218.00
300-400		\$225.00 - \$236.00	4 blk	Clay Center	503@218.00
400-500		\$228.50 - \$238.00	3 blk	Kanopolis	420@210.00
500-600		\$214.00 - \$224.50	10 mix	Ellsworth	583@202.50
600-700		\$190.00 - \$200.00	6 blk	Lehigh	581@202.00
700-800		\$173.00 - \$184.50	10 blk	St. John	637@200.00
800-900		\$161.50 - \$172.25	4 blk	Kanopolis	511@198.00
900-1,00	0	\$158.50 - \$167.75	6 blk	Marquette	586@198.00
		_	4 blk	Salina	560@195.00
	HEIFER		7 blk	Alma	559@195.00
300-400		\$187.00 - \$197.00	3 mix	Marquette	612@193.00
400-500		\$183.50 - \$194.50	7 blk	Clay Center	666@188.00
500-600		\$188.00 - \$199.00	27 blk	St. John	718@184.50
600-700		\$167.00 - \$177.00	37 mix	Ellsworth	696@184.00
700-800		\$162.50 - \$173.00	58 blk	Hope	718@181.50
800-900		\$153.50 - \$164.00	3 blk	Bunker Hill	562@181.00
	MONDAY IIII	V.44. 0000	53 mix	Douglas	762@179.00
	MONDAY, JUL		5 blk	Marquette	729@177.50
0 (-1-	HOGS		9 blk	Delphos	706@177.50
9 fats	Benton	316@79.00	5 blk	Ellsworth	731@177.00
10 fats	Tescott	289@78.00	160 blk	Kingman	645@176.75
2 fats	Tescott	290@78.00	3 blk	Marquette	703@176.00
1 sow	Brookville	665@50.00	25 mix	Tampa	786@175.00
4 sows	Esbon	391@49.00	44 blk	Hays	720@175.00
2 sows	Brookville	550@48.00	90 mix	Kingman	641@174.75
1 blk	CALVE	230@500.00	12 mix	Delphos Solomon	748@174.50
2 mix	Hutchinson Jetmore		7 mix		773@173.50 604@173.50
1 bwf	Galva	248@475.00 175@425.00	82 blk 7 blk	Kingman	723@172.50
1 bWi 1 blk	Galva	305@325.00	12 mix	Minneapolis Gypsum	763@172.50 763@172.50
1 red	Hutchinson	65@150.00	54 mix	Hope	825@172.25
1 160	BULLS		30 blk	Minneapolis	700@172.00
1 blk	Delphos	2050@131.50	3 blk	Brookville	708@172.00
1 red	Walton	1915@126.50	60 blk	Hope	929@169.75
1 blk	Delphos	1990@126.00	18 mix	Delphos	860@169.50
1 red	Salina	2290@124.00	121 mix	Tampa	863@169.50
1 red	Barnard	1980@122.50	6 blk	Salina	698@169.00
1 blk	Tescott	1815@122.50	19 blk	Delphos	836@169.00
1 blk	Marquette	2010@121.50	61 mix	Gypsum	778@168.85
1 blk	New Cambria	1940@121.00	17 blk	Delphos	831@168.25
1 blk	Clyde	1925@120.50	2 blk	Falun	798@168.00
1 blk	Salina	1965@118.50	57 mix	Hope	1016@155.50
	cows			•	
1 blk	Tescott	1600@94.00		HEIF	ERS
1 blk	Randall	1610@92.50	20 blk	Bennington	506@199.00
1 blk	Glasco	1900@91.00	25 blk	Salina	379@197.00
1 blk	Randall	1390@91.00	26 blk	Salina	443@194.50
1 blk	Salina	1415@90.50	8 char	Bennington	501@191.00
1 blk	McPherson	1615@90.00	16 blk	Salina	508@190.00
1 blk	Tescott	1210@89.50	3 mix	Salina	407@183.00
5 blk	Ellsworth	1288@89.00	8 blk	St. John	549@182.50
1 bwf	Waldo	1530@89.00	5 blk	Falun	509@180.00
5 blk	Salina	1368@88.50	6 blk	Lehigh	474@180.00
1 red	Waldo	1325@88.00	6 blk	Minneapolis	577@177.00
2 blk	Hanston	1435@88.00	19 blk	St. John	652@177.00
1 blk	Lyons	1200@87.50	27 mix	Ellsworth	651@176.50
2 blk	Lindsborg	1215@87.50	18 blk	Minneapolis	655@174.00
1 wf	Alma	1435@87.50	52 mix	Waldo	715@173.00
2 blk	Hutchinson	1195@87.00	12 blk	Hays	696@172.00
	THURSDAY, JUI	LY 14, 2022	7 blk	Marquette	666@171.50

IN STOCK TODAY:

460@238.00

462@237.00

465@237.00

386@236.00

471@230.50

11 mix

9 mix

8 blk

25 blk

26 mix

Claflin

Salina

Edna

Solomon

Newton

McPherson

 Heavy Duty Round Bale Feeders Heavy Duty Feed Bunks

Livestock Commission Co., Inc. Salina, KANSAS

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

Hogs sell at 11:00 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

A.com LIVE CATTLE AUCTIONS

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



REMINDER! Get your Horse Sale & Colt Sale CONSIGNMENTS IN!

18 mix	Newton	724@168.50	6 mix	Minneapolis	614@165.50
69 blk	McPherson	776@168.25	11 mix	Delphos	687@165.00
3 blk	Concordia	660@168.00	20 mix	Delphos	763@164.50
6 blk	Delphos	683@168.00	12 mix	Solomon	820@164.00
12 blk	Edna	626@168.00	4 red	Gypsum	663@163.00
34 mix	Abilene	590@168.00	30 mix	Douglas	722@162.75
7 blk	St. John	757@168.00	8 blk	Gypsum	718@162.00
9 blk	Alma	653@167.00	16 blk	Delphos	753@162.00
10 mix	Abilene	657@167.00	63 mix	Beloit	818@159.75
10 blk	Minneapolis	655@167.00			

EARLY CONSIGNMENTS FOR THURSDAY, JULY 21:

83 black s&h, 650-800, home raised, 2 rounds vaccs, 45 days weaned: 130 black steers, 850-875; 30 black steers, 500-800 75+ days weaned, vaccs; 25 black steers, 600-700, weaned, 3 rounds vaccs; 35 black whiteface s&h, 600-700, home raised

MORE BY SALE TIME.

SPECIAL COW SALE!!! TUESDAY, AUGUST 9, 2022

Fall Bred Cows, Fall Bred Heifers, Cow Pairs, Heifer Pairs

17 black heifers, bred Angus, calving September 7 for 60 days, home raised; 49 Black & Red Angus, 3-5 year old, bred Red Angus or Sim/Angus, Sept/Oct. calvers; 48 black, 3 year old, bred LBW Sim/Angus bulls, calving Sept 1 for 60 days, Wyoming origin, hot wire broke; 30 red & black, 3-4 year old, bred to Walrod Sim/Angus bulls, Sept/Oct calvers; 15/15 red & black pairs, 3-5 year old; 40/40 black pairs, mostly 3-4 year old, black calves, worked; 40 blk cows, 3-5 year old, fall bred, bred black Northern origin; 125 black/bwf cows, 3-7 year old, bred Stafford Angus or ND Angus, calving Sept 7 for 60 days; 70 red & blk cows, 3-5 year old, bred Bar S Char, calving Sept. 1 for 70 days; 40 black/bwf, 3-6 year old, bred Black & Red Angus; 45 Red Angus, 3-6 year old, bred Zerr Red Angus, calving Aug 15; 180 black/bwf cows, 4-6 year old, bred Angus, calving Aug. 10 for 65 days; 24 black & red cows, 3-4 year old, fall bred, bred Sim/Ang; 25 black/red/Char cows, 3-10 year old, fall bred, bred to Red Angus.

MORE BY SALE TIME.

For Information or estimates, contact:

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

668@171.00

651@170.25

581@170.00

729@170.00

708@169.75

733@168.50

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

STEERS

Salina

Salina

Ellsworth

Bennington

Bennington

22 blk

3 blk

3 blk

21 blk

8 mix

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

our website at www.fandrlive.com

Check our listings each week on

Austin Rathbun 785-531-0042 Ellsworth, KS



Cattle Sale Broadcast Live on www.cattleusa.com 1150 KSAL, Salina 6:45 AM -MON.FRI * 880 KRVN 8:40 AM - WED.-THURS. *550AM KFRM - 8:00 am, Wed.-Thurs.