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John and Howard Woodbury are the fourth generation of Woodburys on their farm and introduced Black Angus into their Hereford herd when they returned from college. Howard looks forward to his son Evan joining the operation to represent the fifth generation.

Photo by Donna Sullivan



John McCurry checks cattle in a leased pasture near Strong City. They have switched from weaning at seven to eight months to waiting until at least ten months to wean. He says last year the bulls averaged four pounds per day grazing and nursing.

Photo by Donna Sullivan

Woodbury Farms and McCurry Angus honored at Beef Improvement Federation Convention

By Donna Sullivan, Editor

Kansas was well represented at the Beef Improvement Federation Research Symposium and Convention in Biloxi, Mississippi June 9-12. When the awards were handed out, two were claimed by multi-generational Kansas ranches. McCurry Angus Ranch, Burton, was named the 2015 Seedstock Producer of the Year and Woodbury Farms, Quenemo, took home the award for Commercial Producer of the Year. Both were nominated by Kansas Livestock Association.

Woodbury Farms was started by Fred Woodbury in 1881 when he purchased land north of Olivet. His son, Howard K. and wife Rachael expanded the farm, beginning a Hereford-based commercial cow herd. Their son, Fred H. came back to the farm after graduating from Kansas State University in 1956. In 1968 the original homestead was taken by the Melvern Reservoir and the farm's headquarters was

relocated five miles north of Quenemo. Although Fred spent most of his life rebuilding what they lost, he always considered the original farm his home. Howard K. passed away in 1985 and Fred's two sons, Howard H. and John joined the operation after graduating from Kansas State University in 1988 and 1991. About that time, they bought Black Angus bulls to cross on their cow herd, which was 95% Hereford and were pleased with the benefits they saw in terms of fertility, mothering and calving ability. "The Herefords had problems that dad put up with for a long time," Howard said. They purchased their first registered Angus cows in 2004 and now have a herd of about 200 registered and 200 commercial cows. In 2009, with their bull numbers exceeding their need, they began to sell bulls to other area producers and held their first bull auction in 2012.

When it comes to what set them apart from the other producers nominated for the award, Howard confesses he's really not sure. Both Howard and John have been active in industry organizations on both the state and national level and are very involved in their community. In fact, Woodbury Farms is the second-oldest KLA member in the state and their grandfather was at the very first meeting. "I don't think we're a whole lot different than other commercial producers," Howard said. "I've never been one to tell anyone I'm better or smarter than anyone else. I'm just in the right place at the right time."

One of the questions on the application asked about changes they'd made to the operation. Switching from feeding small square bales to unrolling large round bales

has cut down on both their labor and waste considerably, according to Howard. They also try to graze the cattle year round, utilizing crop residue in the fall, brome in the spring, then summer pasturing them on native grass.

Howard says they saw the benefits of artificial insemination early on and currently AI all their replacement heifers. When carcass results from the Beef Expo contest showed small rib-eyes, they began breeding for that and have managed to increase the size of their ribeyes without sacrificing other traits.

In addition to the cattle, they farm about 400 acres, put up 600-700 acres of brome and prairie hay and also put up silage every year.

Howard's son Evan plans to return to the farm after graduating from KSU, making the fifth generation of Woodburys on the farm. "I don't know if we'll expand, or just have more labor for what we do now," Howard said. Howard's wife Elise is a teacher at Williamsburg Elementary and their daughter Morgan is a junior at West Franklin High School at Pomona. Fred passed away this past April and their mother suffers from Alzheimer's and is in a care facility.

"We're pretty proud of our heritage and hope we can continue on in a positive manner," Howard said.

John McCurry of McCurry Angus Ranch describes their history as a unique story, as his parents, Andy and Mary were both third-generation producers, yet went out on their own like first-generation producers. They met at Kansas State University, where Mary, who was from Tennessee, was completing her master's degree in Food Science/Meat



The McCurry Family accepts the award for 2015 Seedstock Producer of the Year. Shown are, from left: Wes Ishmael, BEEF magazine, award sponsor, Mary McCurry and granddaughter Aubree, Andy McCurry, Molly, Melody and John McCurry and Shane Werk.

Beef Improvement Federation photo

Science and Andy was earning his B.S. in animal science, after leaving the McCurry Brothers operation in 1975 to build something he could call his own. They blended their two first names to come up with their herd name, Marands and their logo is outlined in the shape of Tennessee, that they first called home. When John took over the daily operation of the ranch in the early 2000s, they changed the name to McCurry Angus.

John describes the operation he returned to after graduation from KSU as "more or less an overgrown 4-H project," with only about 70 cows on the place. "Then the dream came to fruition of propagating the front end of those genetics and putting embryos in," he described. When a couple of ranches in near Strong City and Fall River became available to lease, they were able to expand. "We were able to hold on to all the cows during the drought and that's



Award sponsor Wes Ishmael of BEEF magazine, presents the Commercial Producer of the Year award to Howard and John Woodbury.

Beef Improvement Federation photo

Early Deadline!

The Grass & Grain office will be closed on Friday, July 3 in observance of Independence Day. All display and classified advertising for the July 7 issue must be received by noon on Thursday, July 2.

**Thank you and
Happy Independence
Day!**

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Land is Sacred

By John Schlageck,
Kansas Farm Bureau

Almost every farmer has said in one way or another, "My life begins with the land." Look at it any way you want but this bedrock principle remains as it has for generations. Land ownership is the key to farming and ranching. Farmers are proud of the crops they grow and the land they work.

From the time our first ancestors dropped seeds into the ground to today's farmer who uses global positioning satellite, they were and are linked to the land. It's who they are and defines the vocation they have chosen.

Many Kansas farmers and ranchers have raised their families, crops and livestock on ground that has

been in their families for generations – for some more than 100 years. When producers farm land that long it becomes part of them. It is their way of life. Something they do each and every day. A vocation that always occupies their time and mind.

The land is something they cherish and love. Seeing it bring life to the seeds they sow is an experience farmers anticipate each year. They look forward to cultivating the crop and protecting it from insects that would cut yields and rob grain from people who depend on this precious food source.

Farmers also anticipate the coming of each year's harvest when they gather the fruits of another year's

labor. Not only do this nation's farmers produce great quantities of grain but they also take pride in producing a top-quality product – one of the finest and healthiest in the world.

Farmers often take better care of their land and livestock than they do themselves. The fondest wish of most farmers is to pass their land on to their children. They work for years, and often a lifetime, to leave a legacy of good land stewardship.

Most farmers learn about conservation and respect for their land from their parents. They continually seek new and better ways to work their soil to ensure they are able to pass it on to

succeeding generations.

One farmer friend once told me, "If I thought for one minute I was ruining my land, I'd give up farming."

Land is the lifeblood of a farmer or rancher whether it helps them produce grain or livestock. Producers have a deep-seated feeling of honor to be the owner and caretaker of land that has been in their families for generations.

They understand that one day they will pass from this earth but the land will remain. They strive to leave the land in better condition.

These stewards of the soil realize their ancestors came to this country and settled with the belief that it was the land of opportunity

for them and future generations of their families. They hope their children will see this investment in the land the same way and leave the farm in better condition for their children.

Land is sacred for Kansas farmers and ranchers. They take their stewardship seriously. They've devoted their lives to safeguarding their farms and families while providing us with the safest, most wholesome food in the world.

John Schlageck is a leading commentator on agriculture and rural Kansas. Born and raised on a diversified farm in northwestern Kansas, his writing reflects a lifetime of experience, knowledge and passion.



This morning, shortly after she left for work, Jennifer called and asked me to turn the sprinkler on and water some flowers she had just planted. No problem, I watered them while I did chores. Little did I know that the new hose had a tendency to kink. Each time I worked one out, a new one would form, causing me to say really unkind things about the hose. In the end I got all of the kinks worked out and the water started pulsing through the sprinkler.

Watering our plants, washing our cars, power washing our decks, we seem to use water at the drop of a hat and without thinking about it. Water is the most important natural resource we have, without it we cannot live, yet it is the one we probably take most for granted. I simply lift the hydrant handle (along with five minutes of unkinking the hose) and the plants are watered.

It wasn't just watering our landscape that got me to thinking about water. The night before I had served as a panelist at the Shawnee County Farm Bureau Ladies Night; the main program was a question and answer session where the attendees could ask us anything about agriculture. We had several great discussions about a variety of different topics but one in particular stuck in my mind.

One of the ladies asked about a news story she had heard about almonds in California. I had heard the same story about how much water it took to produce one almond. I don't remember how much water it was now but it seemed like a lot for one little nut. The story was about the drought in California and whether it was a good use of the water to grow almonds. I must admit on the surface I found myself questioning if almonds should be grown. I like almonds, but were they really worth it?

I must admit that I am skeptical of anything I hear from the national media and this story was no different. I am not sure if we got the whole story, I don't remember if an almond grower was interviewed. A couple of years ago I did take a trip to California and toured their agriculture and I remember that almond farmers were having a tough time because of the cost of irrigation and they had started moving away from almond production. Often market demand or

lack of profit takes care of such problems.

In the end, I had to admit that I did not have enough expertise to answer the question. What I do know is that water usage will continue to be a growing topic of discussion as populations grow and the demand for water continues to grow along with it. Water supply was once viewed as an unlimited resource but we now know that it is a finite one.

We humans are a funny bunch. We chose to live in places where there is little rainfall and pipe water in. We also have found that some of these places have the perfect climate to grow food. The soil is very fertile and if you can control when the water is applied, we can make ideal growing conditions almost year-round. However, in either case we have to either pump water out of the ground or divert it from other places with more rainfall.

This works fine until the places with abundant rainfall have a drought or the underground water we rely on starts to run out, then we have a problem. The answers to these problems are difficult. We all require water, without it survival is not possible. That is a known, undisputable fact. We also know that we need food and the use of water to produce food also seems like a pretty logical and beneficial use. But more and more it seems as though agriculture and our water use have become a target for reduced usage.

One thing I do know is that we are really good at solving problems in agriculture. We have already figured out how to grow more food with less water. I am just as sure that we will continue those advances and that farming will see some remarkable changes because of our dilemma on how to best utilize our most important resource.

This discussion will continue and the choices will continue to get tougher. It is a problem we must face head-on. I have no idea what the right answer is or even if there is a right answer. What I do know is that we must start to have these discussions. Watering our plants may not always be as easy as a lift of the hydrant handle or even unkinking a hose.

Organic farmers encouraged to participate in cost share program

Kansas Certified organic producers or farmers interested in becoming certified organic growers are encouraged to apply to receive cost share funds. The cost share program is funded by the 2014 Farm Bill to assist

Kansas farmers in paying for organic certification or recertification. Funds from USDA's Agricultural Marketing Service (AMS) will be distributed among Kansas organic producers. Under the state's agreement with

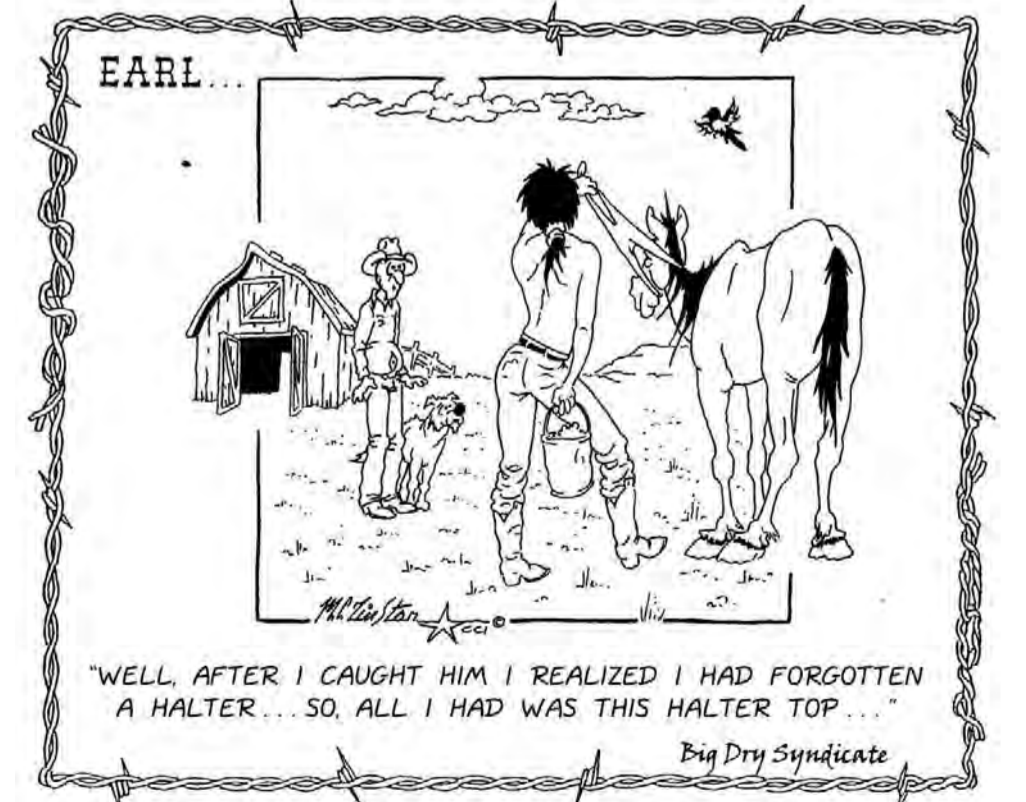
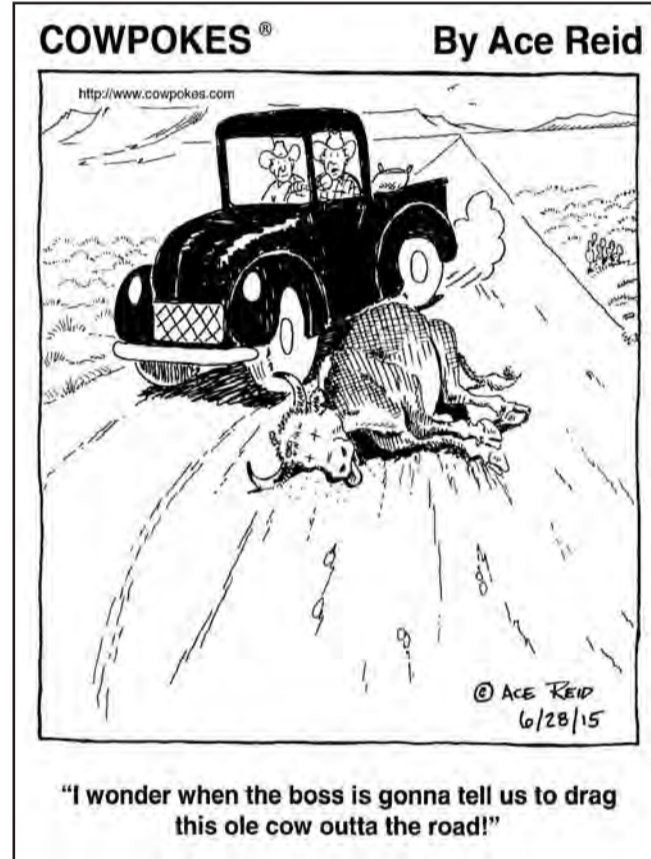
USDA, producers are eligible for up to 75 percent of their certification cost, or up to \$750 per certification category, for certification between October 1, 2014 and September 30, 2015, as long as funds remain. KDA was allocated \$68,500 to reimburse eligible producers through the cost share program.

Application for the cost share funding is available on a first-come, first-serve basis, based on receipt of the completed application packet until available funding is exhausted.

Program updates, as well as application information, is available on the KDA website, Organic Cost Share Program. KDA strives to serve all Kansas farmers and encourage economic growth of the industry, which is the state's largest economic driver.

Questions regarding cost share funds for organic certification may be directed to Julie Roller at (785) 564-6755.

Information is also available from the National Organic Program website at <http://www.ams.usda.gov/AMSv1.0/nop>



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Woodbury Farms and McCurry Angus honored at Beef Improvement Federation Convention

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probably the only reason things have blossomed now," he said. "It was very tempting to sell out or sell down. We did send some heifers to Russia in 2012, the really bad year and that helped with grass management at the time."

As far as changes they've made to the operation, John points out that no year has been the same in the last five, considering the drought

and market conditions. "When I came home, it was market show heifers – 20 to 30 of them. That's what cash flowed easy and that's what I thought I needed to do at that time in my life. Now the bull market has grown so much for us so we don't sell any females and try to fill the ranches we've got leased. We still get calls from people wanting show heifers, but they are usually the elite females genetically and phenotypically, so we

need to keep those cattle in the herd to make more front-end bulls. It's taken the more hobby approach at first and now it's turned into a full-fledged business approach."

Looking to the future, John says their eye is on complete herd improvement. "It costs the same to run a bad cow as it does a good cow," he pointed out. He says they are doing more embryo work and are striving to do a more thorough job of artificial inseminat-

ing. "We used to AI one cycle, then turn the bulls in. Now we're AI'ing repeats, setting more cows up and trying to get everybody's calving season tighter. He doesn't foresee them expanding greatly in purebred cattle, but using more commercial cows to put embryos in. "That way it makes us more flexible from a demand standpoint," he explains. "If we see bull demand softening, we don't have to put as many em-

bryos in. We'll just raise commercial calves. The drought has taught us a lot about managing grass. So if you have to cut back the cow herd you're not cutting into a purebred cow herd to sell. You're strictly selling commercial cows."

McCurry says the family was extremely honored to be asked by KLA to represent Kansas in the BIF competition. "To even be considered by KLA was just a great honor," he said. "We're

very grateful. When you fill that application out, you know it's going to be a shootout. Anybody that's taken the time to fill out that application is obviously qualified. It took our breath away, really, to be considered in that league of former BIF seedstock producers of the year. We never considered ourselves as the caliber of those people. We're very excited and thankful to the BIF and KLA."

Price and preference – interactive consumer education drives beef demand

By Lyndee Stabel

It used to be, our eating habits were determined by the environment. People ate what they could get when they could get it. Today food is abundant in America and eating habits are mostly by preference and price. With sustained higher costs, it's price that influences more and more beef buying decisions. Craig Deihl, executive chef of Cypress in Charleston, S.C., says the higher price of beef chuck that many quick-service restaurants prefer for grinding could mean more expensive hamburgers. That leads some consumers to switch from beef to a cheaper option. However, Deihl says people going out for a nice steak dinner seem prepared to drop the extra cash for the experience they want. Burger joints aside, the changes in beef buying habits have affected retailers more than restaurants. Master butcher and founder of the Muscolo Meat Academy Kari Underly says beef purchases in the home have also been affected, because many people are changing the way they view protein as a part of a meal.

"I think we're just moving away from meat being the big, center of the plate that you build your meal around, to using beef as more of an ingredient," she says.

Beef products need to be more compatible with that mindset, she suggests – less focus on large value-packs alone and more development of products for one-pot meals, such as shreds for soups and strips for stir-fry. "These items work because the package tells consumers exactly what to do with it," Underly says, and that

makes the meat case less complicated. Very few people want to spend money on a product they know nothing about, so restaurants can serve as a place for individuals to familiarize themselves with different cuts and methods of preparation.

The main beef focus revolves around middle meats like tenderloin and ribeye, but new cuts are gaining ground. Deihl sees a need for a wider range of education, and chefs have a role in that process. For instance, he frequently uses slow cooking methods to prepare various cuts of beef and shares cooking tips. "It's a great option," he says, and consumers need to know they can do the same thing. "You can buy this product, put it in your crockpot before you go to work and when you get home it's done." At Cypress they also seek to maximize the use and value of a whole beef carcass rather than picking and choosing a few specific cuts, Deihl says. That means offering a variety of beef products that may not be readily available in other dining establishments, such as the Denver cut, coulotte and the sirloin flap. "If you're looking for something unique and different and super tasty, try one of those cuts," Deihl says. Not only do they have a rich, beefy flavor, but at a better price point than the most popular steaks like tenderloin and ribeye.

Again, the key is education. Even if consumers see a newer, cheaper cut at the meat counter – or a familiar cut prepared a different way, such as strips or shreds – they still may not buy it. People like to buy the things they know and understand.

Underly says more training is exactly what's needed at the grocery store level, and it needs to be updated for today's consumers and meat cuts. "We try to provide tools to the retailers, but are they the right tools?" she asks. "The traditional model is – develop a cut, develop a program, create point-of-sales materials, put them up in the meat case and see what happens."

Rather than playing the wait-and-see game, Underly is working to help improve product knowledge and merchandising methods in grocery stores across the nation. By year's end, retailers will be able to enroll in the online Meat Merchandiser Certification Program through Muscolo Meat Academy.

Retailers' knowledge about their beef products has very little value if it is not shared. So consumers need to talk to the people behind the meat counter. "Ask questions or tell your butcher what kind of dish you wanting to make, and they can help you pick the right cut of beef," Underly urges. Beef is more expensive. To justify the cost people need to have a great eating experience, and proper preparation ensures each cut of beef will taste its best. Certified Angus Beef® brand meat scientist Phil Bass agrees. That's why well-trained staff needs to be on hand to engage consumers in conversation, acting as consultants.

"Some of our retail partners have moved to a more 'restaurant-style' steak in the meat case," he says. A higher price per pound is offset by the smaller portion for a "gentler sticker price." Other partners have re-

designed their layout to create an "open meat counter for more interaction between staff and customers. Some are investing in apprentice meat cutters to create more experts in their stores." The idea is to help everyone from the casual shopper to those looking for a specific item. Some of the newer beef cuts have a variety of names, so communication is vital. A butcher may even be able to cut a specific item for the consumer. For instance, Underly says most grocers have the sirloin and can easily separate the coulotte. All consumers need to do is ask.

When costs increase, efficiency becomes more important. On the restaurant side, Deihl says chefs and restaurant managers can help themselves by using more of the beef carcass. "We use our beef trims for grinding, frying or making stock, and we promote it as such," he says. "Those are all added carcass utilizations, and eventually the economics of it work in your favor." The nutrition of beef

has its own efficiency for consumers as well.

Underly points out that even in small portions, beef is very nutrient dense. "When you're trying to be efficient with your food sources, I think beef in a healthy portion is really the way to go. It's Mother Nature's multivitamin."

And then there's the

taste that keeps plenty of people coming back for more no matter the cost. "The great thing about a nice piece of beef is it just stands on its own. It has good texture, and you don't need to marinate it to give it flavor," Underly says. "It's just beefy and that's what we love."

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GRASS & GRAIN *Our Daily Bread*
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Gina Fox, Holton, wins Grass & Grain recipe contest with refreshing summer salad

SOUTHWEST QUINOA SALAD

Gin Fox, Holton

1/3 cup fresh lemon juice
 1/3 cup olive oil
 3 tbsp chopped fresh cilantro
 Sea salt and fresh ground black pepper, to taste
 1 cup quinoa, rinsed and drained
 1 tsp cumin seeds, toasted, or 1 tsp ground cumin
 High-heat cooking oil (such as sunflower, safflower, peanut or grape seed oil), as needed to lightly coat grill grate

2 cobs fresh corn, husks and silk removed (or 1 1/4 cups frozen corn, thawed)
 1 cup cooked black beans, drained
 1 plum tomato, diced
 1 zucchini or yellow zucchini squash, diced
 1/4 cup finely chopped red onion

INSTRUCTIONS:

1. In small bowl, whisk lemon juice, olive oil, cilantro, salt and pepper; set aside.

2. In a saucepan, bring 2 cups water to a boil; add quinoa and cumin. Cover, reduce heat to medium-low and simmer until liquid is absorbed, about 12 minutes. Remove pan from heat and let stand for 5 minutes. Uncover, fluff with a fork and let cool for at least 10 minutes.

3. Meanwhile, heat an outdoor grill to medium-high and lightly oil grate with cooking oil. Add corn, close lid and grill, turning once, until tender and lightly charred, 10 to 15 minutes. (Alternatively, boil cobs in a large pot of simmering water. Cover and cook until tender, 6 to 10 minutes.) Let corn cool, then cut kernels from cob.

4. In a large bowl, combine quinoa, corn kernels, beans, tomato, zucchini and onion. Pour lemon-cilantro dressing over top and toss to combine. Cover and refrigerate salad for at least 1 hour to allow flavors to meld, or up to 2 days.

Kellee George, Lawrence SLOW COOKER SLOPPY JOES

1 1/2 lb.s ground beef
 2 celery ribs, chopped
 1 small onion, chopped
 1 12 oz. bottle chili sauce
 2 T. brown sugar
 2 T. sweet pickle relish
 1 T. Worcestershire sauce
 1 tsp salt
 1/8 tsp pepper
 Hamburger buns.

In skillet brown beef, celery, and onion over medium high heat 8-10 min. or until beef is no longer pink, breaking up beef into crumbles, drain. Transfer to a 3 qt. slow cooker.

Stir in chili sauce, brown sugar, pickle relish, Worcestershire sauce, salt and pepper. Cook, covered on low 3-4 hours or until mixture is heated through and flavors are blended. Spoon meat mixture onto buns.

Lisa Winberry, Topeka ZUCCHINI CORN-BREAD CASSEROLE

4 cups grated zucchini
 1 onion, chopped
 2 eggs
 1 8.5 ounce package corn muffin mix
 1/2 teaspoon salt
 8 oz. sharp cheddar cheese, shredded
 1/4 teaspoon black pepper.

Preheat oven to 350. Grease a 2 qt. baking dish.

Mix zucchini, onion, eggs, muffin mix and pepper.

Stir in half of the cheese. Spread mixture in dish, top with remaining cheese.

Bake 1 hour or until done.

Let cool 10 min. before serving.

Linda Kepka, Dorrance PEANUT BUTTER BALLS

1/4 cup butter
 1 cup marshmallow creme
 1 cup peanut butter
 1 cup powdered sugar
 2 cups Rice Krispies cereal
 3/4 lb. white almond bark
 12 oz. chocolate chips

Mix butter, marshmallow creme, peanut butter, and powdered sugar. Add Rice Krispies. Form into balls and chill until firm. Melt almond bark and chocolate chips in microwave. Dip balls into mixture and put on wax paper. Chill in refrigerator.

Rachel Shivers, Manhattan GRILLED ASIAN CHICKEN

There's nothing that says summer is in the air like the luscious, smoky scent of grilled fare. Have you been tempted to fire yours up yet?

I have to admit, my first several attempts at grilling chicken breasts were disappointingly dismal. Grilling seemed obvious enough to me, shake on some seasonings and slap those puppies down! Right? It's simple, that why guys like it? WRONG!

Achieving lip-smacking morsels hot off the grill is definitely a realm where fine science meets dynamic creativity - especially when it comes to chicken breasts. If you're not careful, you'll end up with dried-up, rubbery sticks to chew, that is if you've managed not to burn them to a crisp.

Follow these simple steps below and you'll be guaranteed to have tender, juicy chicken filets dripping with flavor and goodness.

4-6 fresh boneless, skinless chicken breasts
 1/2 cup peanut oil
 1/4 cup fresh squeezed lemon juice
 2 tablespoons soy sauce,

tamari or coconut aminos
 2-4 garlic cloves, finely chopped (or 1 teaspoon garlic powder)
 2 teaspoons fresh ginger, finely chopped (or 1 teaspoon ground ginger)
 1/2 teaspoon salt
 1/2 teaspoon ground cayenne red pepper (optional)

Directions:

Trim - Remove any residual fat, skin or tendons along the edges of the chicken breast. Trim the under side of the chicken (tenders side) to make the entire breast close to the same thickness. Also trim off the long thin piece that you will sometimes find on one end.

Slit - Carefully cut shallow slits up and down each chicken breast, spaced about every half inch. Be careful not to cut too deep. These grooves will help the marinade penetrate the meat, as well as help the chicken lay more flat and cook evenly.

Marinade - Whisk together the remaining ingredients for the marinade and pour over the chicken breasts. Cover and refrigerate for at least 4-8 hours or overnight.

Grill - These marinated chicken breasts can be cooked on a gas or charcoal barbecue grill, in a stovetop grill pan with ridges, or even in an electric grill such as a George Foreman grill. My preferred method is to cook chicken breasts at

medium-high on my well-used gas grill. However you grill them, chicken needs to cook until it's completely cooked through, but grilling too long will make them dry and tough. You can tell when the chicken is done by how it looks and feels. The outside of the chicken will be nicely browned on both sides and it should feel firm to the touch, but not hard.

Enjoy - Make sure everyone is ready to enjoy these tasty treats hot off the grill! You'll be amazed at the tenderness and incredible flavor oozing out of every bite!

Tips:

- Save the trimmed chicken pieces in a freezer-safe container to add to a stir-fry or to use the next time you make chicken stock or stew.
- When modifying this technique to use with other homemade marinades, remember that a good marinade should roughly include a 2:1 ratio of oil to acidic ingredients with plenty of additional flavorings such as spices and herbs.
- When grilling, remember to judge cooking time by how the meat looks and feels, not just by the amount of time the recipe calls for. Cooking time will depend on the temperature of the chicken, how hot the grill is, the thickness of the chicken breasts, and even weather conditions if you're cooking outside.

Drink Your Milk

Aging puts stress on many parts of the body, including the brain. To help reduce the onset of Alzheimer's, dementia, Parkinson's disease, and other conditions, the antioxidant glutathione may help.

Glutathione is in milk and can help reduce oxidative stress in the brain. Research showed that the

more milk participants consumed, the higher the glutathione concentration in the brain. More research is needed to determine more specific benefits of milk consumption.

Most consumers get one serving of dairy foods a day, well below the recommended three servings.

Fighting Bacteria With Silver

Preventing food borne illness is an ongoing challenge. To help consumers reduce potential problems, there are textiles with add silver nanoparticles to kill bacteria. It is widely used in the medical field. This technology is also being used for sports uniforms and other products. So what

does silver do?

Silver nanoparticles deliver silver ions to bacteria. The ions attach to the bacteria, break the cell walls, and destroy the bacteria. Without the nanoparticles, the silver ions are not effective when in the presence of chloride, phosphate, protein, or other components.

Using silver to fight bacteria is expensive. It is also important not to underuse or overuse the treatment.

Silver added to fabrics helps reduce odor and/or mildew growth. They still must be laundered properly. Food contact surfaces still need proper cleaning to reduce contamination. An easy sanitizer is 1 teaspoon bleach in 1 quart of room temperature water.

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Juicing versus Blending

Cindy Williams, Meadowlark Extension District Agent, Food & Nutrition, FNP

Which is better? Juicing or blending fruit? The process of juicing is a trend touted for its Adetoxification@ powers. Juicing machines separate the water, vitamins, antioxidants, and fructose from the fruit. Unfortunately, the pulp and skin are removed which includes beneficial fiber and more antioxidants. Diabetics may see a spike in blood

sugar counts because of the high fructose content and lack of fiber.

Blending is where the whole fruit is blended to retain all components of the fruit including the beneficial fiber. When consumed, there is a higher feeling of fullness and higher nutritional benefit.

While juicing provides a healthy beverage, more nutritional value is gained from blending the whole fruit.



Happy Fourth of July

By Lou Ann Thomas

Unless you live way out in the country and haven't left your house for the last week you know, from the barrage of small explosions you've been hearing, that the Fourth of July is only a few days away.

The Fourth of July has always been a big deal for me. My grandfather came to America from Switzerland when he was a young boy and loved the Independence Day holiday. His joy rubbed off on me, since I too love the parades, the picnics, the parties, the fireworks and the fun.

It's not only my grandfather's influence that makes July 4 special to me, but the holiday is also celebrated in a big way in my hometown of Wamego. A carnival comes to town several days early

and stays through the Fourth. The spinning, bright lights of the midway are the backdrop for community picnics, parties, barbecues, reunions, a giant parade and lots of fireworks.

Fireworks are always the mainstay of any Fourth of July celebration. Growing up, my friends and I would spend the days leading up to the Fourth standing on the cement bridge in front of my parent's house lighting one Black Cat or Lady Finger firecracker after another. We loved tossing them underneath the bridge so the loud pop would reverberate in echoes.

We also had a number of the small explosives go off in our hands causing an immediate numbness in our fingers and a loud ringing in our ears. I send out a prayer

Celebrating 60 years of publication with these vintage recipes from 1975 and 1963

OUR DAILY BREAD

- by G&G Area Cooks

Mrs. Lawrence Winkley, Marion, Wins Prize

Winner, Mrs. Lawrence Winkley, R 1, Marion: "I always enjoy the recipe page."

CORN BREAD

- 3 cups yellow cornmeal
- 1 cup cream style corn
- 1 teaspoon sugar
- 2 teaspoons salt
- 1 3/4 cups sweet milk
- 1 one-third cups grated cheese
- 1 1/2 teaspoons baking powder
- 1 cup vegetable oil
- 3 eggs
- 1/2 cup finely grated onion (optional)

Pour into a 9x16-inch ungreased pan and bake at 350 degrees for one hour. This gives an unusual and delicious taste to corn bread. Serve piping hot.

+++++

OUR DAILY BREAD

- by G & G Area Cooks

Recipe Of Mrs. Roland Koch, Clay Center, Wins

"This pumpkin pie gets a company dress up. Spicy cream filling is topped with a billowy meringue," writes Mrs. Roland Koch, R 5, Clay Center.

PUMPKIN MERINGUE PIE

- 3/4 cup sugar
- 3 tablespoons cornstarch
- 1/2 teaspoon salt
- 1 teaspoon cinnamon
- 1/2 teaspoon nutmeg
- 1/2 teaspoon ginger
- 1/4 teaspoon cloves
- 1 cup canned or mashed cooked pumpkin
- 2 cups milk
- 3 slightly beaten egg yolks
- 1 9-inch baked pastry shell
- 1 recipe meringue

In saucepan mix sugar, cornstarch, salt and spices; gradually stir in pumpkin and milk. Cook and stir till mixture thickens and comes to boiling. Cool two minutes longer; remove from heat. Stir small amount hot mixture into egg yolks; return to hot mixture. Cook and stir two minutes. Cool to room temperature. Pour into cooled pastry shell. Top with meringue. Beat 3 egg whites with 1/2 teaspoon vanilla and 1/4 teaspoon cream of tartar till soft peaks form. Gradually add 6 tablespoons sugar, beating till stiff peaks form and sugar has dissolved. Spread over filling, sealing thoroughly before cutting.

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of gratitude every Fourth of July that I still have all my digits and can still hear when the phone rings.

Honestly, it's surprising there aren't more injuries during this holiday. For one thing, arming family members with explosives while spending a very hot July day together doesn't seem wise to me. I'm amazed there aren't more fireworks of a whole new and ugly kind from that volatile mix.

It also amazes me how much money we spend on pyrotechnics. Last year, Americans spent over \$675 million on fireworks, which was up more than \$13 million from the year before. That's a lot of hard-earned

cash going up in smoke. But since we only get to do this once a year it's difficult to put a price on celebrating the birth of our wonderfully free and varied country. So, whatever you do and whatever you spend, have a happy and safe Fourth.

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July 15-19

Schedule of Events

TUESDAY, JULY 14
 6-7:30 p.m. Enter all exhibits except Foods, Floriculture, Horticulture & Crops & Livestock
 6-7:30 p.m. Enter Poultry

WEDNESDAY, JULY 15
 7-8:30 a.m. Enter Swine
 9-10:30 a.m. Enter all other Livestock
 8-10 a.m. Enter Open Class Foods, Catholic Parish Center, 714 Court Street
 8:30 a.m. 4-H Entomology, Geology, & Forestry Judging, Floral Hall
 9 a.m. 4-H Electricity Judging, Floral Hall
 9 a.m. Open Class Clothing & Textiles Judging, Exhibit Hall
 9 a.m. Woodworking Judging, Floral Hall
 9-11 a.m. Enter 4-H & Open Class Floriculture, Horticulture & Crops, Floral Hall
 9:30 a.m. 4-H Scrapbook & Shooting Sports, Judging, Exhibit Hall
 9:30 a.m. Open Class Ceramics, Crafts & Paintings Judging, Floral Hall
 10 a.m. Open Class Foods judging begins at Catholic Parish Center
 10:30 a.m. 4-H Miscellaneous Judging, Exhibit Hall
 10:30 a.m.-1 p.m. Open Class Bake Sale, Exhibit Hall
 11 a.m. 4-H Floriculture Judging, Floral Hall
 11:30 a.m. 4-H Foods Judging (except decorated cakes), Catholic Parish Center, 714 Court St.
 12 noon Open Class Floriculture Judging, Floral Hall
 12 noon 4-H Horticulture & Crops Judging, Floral Hall
 1 p.m. Open Class Horticulture & Crops Judging, Floral Hall
 1 p.m. Open Class Photography Judging, Floral Hall
 1-5:30 p.m. 4-H Bake Sale, Exhibit Hall
 6-7 p.m. Gazebo Entertainment - FREE
 6 p.m. Swine Judging, Orrin Hogan Arena
 7:30 p.m. Chamber of Comm. & Clay Co. Farm Bureau FREE watermelon feed
 8 p.m. Rodeo, with Freedom Riders, Rodeo Arena
Admission: Advance: Adult-\$7 K-8-\$3 • Gate: Adult-\$8 K-8-\$4

THURSDAY, JULY 16
 9 a.m. 4-H/FFA Horse Show, Orrin Hogan Arena & Rodeo Arena
 10:30 a.m. "Meet Us At The Fair", sponsored by Countryside Crusaders 4-H Club
 4 p.m. Meat Goat Judging, Orrin Hogan Arena
 6-7 p.m. Gazebo Entertainment- FREE
 6-9 p.m. Free Popcorn & Water courtesy of Farmway Coop
 7-8:30 p.m. Free Snow Cones courtesy of Citizens National Bank
 6 p.m. Sheep Judging, Orrin Hogan Arena
 8 p.m. Rodeo, with Freedom Riders, Rodeo Arena
Admission: Advance: Adult-\$7 K-8-\$3 • Gate: Adult-\$8 K-8-\$4
 6-10 p.m. Carnival Attractions by Great Plains Amusements

FRIDAY, JULY 17
 9 a.m. Decorated Cake & Decorated Cupcake Judging, Extension Office
 9 a.m. Rabbit Judging, Rabbit & Poultry Barn
 11 a.m. Poultry Judging, Rabbit & Poultry Barn
 1 p.m. Dairy Cattle Judging followed by Dairy Goat Judging, Orrin Hogan Arena
 3 p.m. Bucket Calf Interviews, Orrin Hogan Arena
 5 p.m. Bucket Calf Showmanship, Orrin Hogan Arena
 2 p.m. Project Auction entry deadline. All 4-H projects, including livestock, except beef, must consign project auction exhibit to Fair Office
 6-7 p.m. Gazebo Entertainment - FREE
 6 p.m. Chainsaw Carving
 6 p.m. Beef Judging, Orrin Hogan Arena
 7:30 p.m. 3/4 Midget & Pickup Truck Races, Grandstand • Adult-\$8 K-8-\$4
 10 p.m. 4-H Beef project auction entry deadline due to Fair Office
 6-10 p.m. Carnival Attractions by Great Plains Amusements

SATURDAY, JULY 18
 8:30 a.m. Round Robin Showmanship, Livestock Arena
 10 a.m. 4-H/FFA Livestock Judging Contest, Orrin Hogan Arena
 12-1 p.m. Kiddy Tractor Pull Participant Check-In Orrin Hogan Arena
 1-2 p.m. Kiddy Tractor Pull- FREE Orrin Hogan Arena
 4:30 p.m. 4-H Awards Presentation, Orrin Hogan Arena
 5 p.m. 4-H Kiss the Pig Contest Results, Orrin Hogan Arena
 5:30 p.m. Decorated Cake & Project Auction, Orrin Hogan Arena
 6 p.m. 4-H & FFA Livestock Auction, Orrin Hogan Arena
 7:00 p.m. Demolition Derby, Grandstand • Admission: Adult - \$8 K-8 \$4
 6-10 p.m. Carnival Attractions by Great Plains Amusements

SUNDAY, JULY 19
 9 a.m. Cowboy Church, Fairgrounds
 12:30-1:30 p.m. All Exhibits Released

Planting lags but wheat harvest started



After a start delayed by rain and wet conditions, harvest got under way in Kansas last week when hot, dry weather prevailed. Above, Greg and Dennis Roles harvest wheat on ground they rent south of Wakefield.

Photo by Rachael Sullivan

For the week ending June 21, 2015, southeast Kansas received rain with totals up to one inch, while the rest of the state remained mostly dry, according to the USDA's National Agricultural Statistics Service. Temperatures were near normal. Winter wheat harvest began in the southern half of the state. There

were 5.3 days suitable for fieldwork. Topsoil moisture rated 2 percent very short, 9 short, 76 adequate, and 13 surplus. Subsoil moisture rated 5 percent very short, 13 short, 75 adequate, and 7 surplus.

Field Crops Report: Winter wheat condition rated 10 percent very poor, 19 poor, 41 fair, 28 good, and 2 excel-

lent. Coloring was at 92 percent, equal to last year and near 94 average. Mature rated 51 percent, behind 61 last year and 65 average. Harvested was 8 percent, behind 21 last year and well behind 33 average.

Corn condition rated 2 percent very poor, 10 poor, 37 fair, 45 good, and 6 excellent. Corn emerged was 94 percent, behind 100 last year and average. Silking was at 2 percent, behind both 7 last year and average.

Soybeans condition rated 1 percent very poor, 10 poor, 43 fair, 43 good, and 3 excellent. Soybeans planted was at 73 percent, behind 89 last year and 91 average. Emerged was 50 percent, well behind 83 last year and 82 average.

Sorghum condition rated 0 percent very poor, 1 poor, 28 fair, 68 good, and 3 excellent. Sorghum planted was 78 percent, near 81 last year, but behind 86 average. Emerged was 52 percent, near 50 last year, but behind

62 average.

Sunflowers planted was 62 percent, behind 70 last year and average. Emerged was 31 percent, behind 43 last year and 47 average.

Alfalfa hay first cutting was 86 percent complete, well behind 95 last year and 97 average. Second cutting was 2 percent, well behind 25 last year and 31 average.

Cotton condition rated 0 percent very poor, 10 poor, 30 fair, 52 good, and 8 excellent. Cotton planted was at 80 percent, behind 96 last year and 95 average.

Livestock, Pasture and Range Conditions: Pasture and range condition rated 2 very poor, 5 poor, 26 fair, 53 good, and 14 excellent.

Harbstreit receives Kansas FFA VIP Citation award

Dr. Steve Harbstreit was recognized with the Kansas FFA VIP Citation at the 87th Kansas State FFA Convention on the Kansas State University campus on Thursday, May 28.

Dr. Harbstreit has served on faculty at Kansas State University in the area of agricultural education since August of 1987, and currently is an associate professor in agricultural education. In addition, he serves on the Kansas FFA Foundation Board of Directors as well as the National Postsecondary Agricultural Student Organization Board of Directors. Before becoming an assistant professor at Kansas State University, he taught vocational agriculture at North Andrew County High School and Northwest Missouri Vocational Technical School for six years. Dr. Harbstreit has been recognized as a Kansas State University College of Agriculture distinguished faculty member, and has received both the Honorary State and American FFA degrees. He also serves as the Kansas FFA Association Agriscience Fair coordinator and previously served on the National FFA Board of Directors.

Dr. Harbstreit has a passion for green tractors and for preparing students for careers in agricultural education. He enhances student learning through his ability to be a learner himself, looking for ways to improve his capacity to best prepare agricultural education students before they enter the profession. Dr. Harbstreit has continued to make a positive difference in the lives of students through 44 years of committed service to agricultural education.

"The VIP Citation is awarded to individuals who have demonstrated a lifetime of service to the Kansas FFA Association," Hadacheck said. "It is because of the dedication of these individuals that Kansas FFA has continued to grow and prosper."

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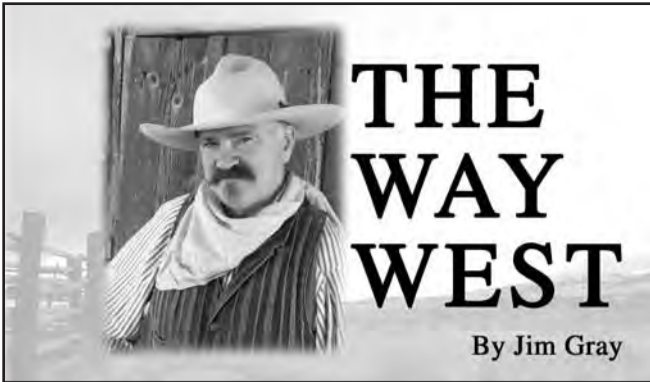
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Paradox of Independence

When Stephen Douglas unveiled his Kansas-Nebraska Bill in January of 1854 the floodgates of emigration were thrown open even before being accepted by the United States Congress. Lands west of the Missouri border recognized as the "Permanent Indian Frontier" were under military protection from settlement by the presence of Fort Leavenworth and Fort Scott. The forts were part of a line of posts from Fort Snelling, Minnesota to Fort Jesup, Louisiana.

Settlers were flooding west to Oregon and California and while the Indian frontier was meant to be preserved for the Indian nations thousands of emigrants were traversing the territories giving rise to the impression that the prairie lands too should be opened for settlement. Only those who served the tribes such as agents, missionaries, and authorized traders were al-

lowed to reside in the territories.

Under an earlier Missouri Compromise, Missouri was admitted to the Union as a slave state. The compromise was set to keep a balance between free states and slave states. The territory that became Kansas was expected to eventually be admitted as a free state. However, the westward expansion to Oregon and California, plus the addition of Texas had thrown the balance into disarray. Douglas introduced the idea of popular sovereignty (a voting majority) to solve the dilemma. Instead chaos ensued.

Representatives of the Delaware and Shawnee tribes left for Washington, D. C. on April 11, 1854, with their agent to formalize cessation of tribal lands to the United States. Iowa, Sac & Fox, and Kickapoo delegations and their agent followed suit on April 21. No

sooner had they departed than Missouri "settlers" poured over the border to stake claims on the land. Within a week cabin foundations had been put down and names of claim hunters carved in surrounding trees. Having made his claim, each man returned to Missouri while Congress debated the notion of popular sovereignty.

A meeting was held in the territory west of St. Joseph, Missouri, to sanction the efforts of the "squatters" flooding onto the not-yet-relinquished Indian lands. An opposition meeting was held at the "wigwam" of Kickapoo leader Wauthena, declaring the first meeting null and void. That was followed by a meeting that reaffirmed the actions of the first meeting. Tensions were already building as claims were "jumped" and disputes developed. The overwhelming majority of colonists in the territory were slave holders or at least in favor of slavery. West of Fort Leavenworth a "Squatters Association" resolved to support the institution of slavery and made the recommendation for slave holders to "introduce their property as fast as possible."

Benjamin Harding, the authorized trader to the Kickapoo, Iowa, and "Missouri" Sac & Fox tribes wrote from his post near Wauthena's wigwam, (May 27) "Now there is not a

grease spot left unclaimed within my knowledge; and still claim hunters are passing daily."

At the Ottawa Baptist mission, east of present-day Ottawa, Kansas, Rev. Jotham Meeker wrote, "Learn that White families are breaking over the rules of the Government, and are actually settling and opening farms, within 12 to 15 and 25 miles from us."

Meanwhile the "jumping off" towns of Weston and Independence, Missouri, were crowded with emigrants who were daily joining wagon trains bound for Oregon and California. Drivers joined the wagon trains driving cattle by the thousands. Trains of wagons were being fitted with merchandise bound for Santa Fe, and freighting companies organized hundreds of wagons consigned to deliver cargo to the western military posts. Excitement reigned all along the Kansas frontier.

The Kansas-Nebraska bill passed the U.S. House of Representatives May 22nd. Three days later a salute of one hundred guns was fired on May 25th with the expectant passage in the Senate of the Kansas-Nebraska Bill which was not completed until 1:15 a.m. May 26th. President Franklin Pierce signed the bill May 30, 1854.

Almost immediately a wave of protest spread through the northern states.

Dow AgroSciences to launch a new weed control tool in corn

Dow AgroSciences is planning to release a new corn herbicide to control weeds deep into the growing season. Registration for this herbicide, currently referred to as GF-3471, is expected in 2016.

GF-3471 is designed to feature a novel formulation of three leading active ingredients that have not been included together in any previous herbicide. This exclusive formulation contains three modes of action and does not include atrazine or glyphosate. The intent of the herbicide is to exceed industry standards with strong, trusted residual control of many herbicide-resistant weeds, including Palmer amaranth and giant ragweed.

"Upon regulatory approval, this new herbicide could be an excellent way to give corn growers peace of mind that their weeds are controlled well into the season," says Luke Peters, corn herbicides product manager, Dow AgroSciences. "We have learned in the past that providing trusted residual activity allows corn-

fields to stay cleaner longer, which can lead to higher yield."

This herbicide formulation is expected to offer flexible application timing from preplant to early postemergence.

"The troublesome weeds growers face today are very concerning," Peters says. "We look forward to offering GF-3471 to improve efficacy

and help solve this ever-growing threat to yield potential. In early field trials, it has shown exceptional weed control."

GF-3471 will be included in university field trials this year and will be featured in public Dow AgroSciences field plots. Developed to help growers meet the needs of their operations, this new corn herbicide will

be a welcome addition to the current industry-leading Dow AgroSciences portfolio.

Visit a Dow AgroSciences field plot this summer for more information and to see GF-3471 in action.

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Under popular sovereignty the slave-holding majority from Missouri were the undisputed victor. Flags were draped in black and hoisted to half-mast. Church bells tolled and thousands proclaimed their opposition to the "enemies of liberty."

In many northern cities the Fourth of July was declared a "day of mourning," while the squatters of the Salt Creek Valley west of Fort Leavenworth read the Declaration of Independence while vowing no protection for anti-slavery Abolitionists.

It seemed Kansas was destined for slavery when Anson Burlingame of Salem, Massachusetts asked, "Can we remove evil?" "We can try," he answered. The paradox of independence and its consequences were only beginning in a place called Kansas on The Way West.

"The Cowboy," Jim Gray is author of the book *Desperate Seed: Ellsworth Kansas on the Violent Frontier and Executive Director of the National Drivers Hall of Fame.* Contact Kansas Cowboy, Box 62, Ellsworth, KS 67439. Phone 785-531-2058

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Researchers go wild for ancient genetic gain

By Julia Debes

Kansas State University researchers are on the hunt for wild and novel genes from wheat's ancestors, funded by the Kansas Wheat Alliance. Introducing the genes they find back into modern day wheat varieties will help Kansas farmers compensate for environmental factors and produce higher yielding and even higher quality crops, according to K-State wheat breeder Allan Fritz.

"Genetic diversity is the foundation of all genetic improvement and the introduction of new genetics is

critical to sustained success," Fritz wrote in his research proposal. "What we already have in wheat is good, but there are a lot of genes out there that could have tremendous value, and we want to explore those."

Wheat's Origin Story

To understand why wheat has such a treasure trove of genetic possibilities, one must understand how wheat itself evolved.

"Wheat originated nearly 10,000 years ago in the 'cradle of civilization,' a geographical area that is now Iraq, eastern Syria, southwestern Iran and southeast-

ern Turkey," according to the Kansas Foundation for Agriculture in the Classroom's Kansas Crops Educator's Guide. "Wheat's earliest ancestors - wild einkorn and emmer - were among the first plants cultivated by people."

That is the when, but hybridization is the how. According to the National Human Genome Research Institute, "hybridization is the process of combining two complementary single-stranded DNA or RNA molecules and allowing them to form a single double-stranded molecule through base pairing."

In simpler terms, genetic pieces of cultivated emmer (Triticum dicoccum) mixed with genetic pieces of goat-grass (Aegilops tauchii) and the result was an entirely new species - Triticum aestivum, or bread wheat.

To further complicate wheat's family tree, another hybridization occurred even earlier in emmer's development - 300,000 to 500,000 years ago. Wild diploid

wheat (Triticum urartu) and a type of goat grass (Aegilops speltoides) combined to form wild emmer (Triticum dicoccoides), which evolved into cultivated emmer.

Both of these hybridizations created an extremely complex genome for wheat. The wheat genome is actually five times more complex than the human one. But, for researchers willing to pick and sort through all that genetic material, the boons are seemingly infinite.

"This work will allow us to develop a broad germplasm base for the K-State breeding program well into the future while allowing us to explore unique germplasm for critical traits including biomass, yield, disease and insect resistance, heat and drought tolerance and quality traits," Fritz wrote in the research proposal.

X Marks the Spot

But, how does a researcher even locate a sample of wheat's ancient relatives, let alone track down

the novel alleles, or specific parts of a gene located at a specific position on a specific chromosome, that will result in such a huge benefit? The collaboration at the Kansas Wheat Innovation Center plays a critical role.

In addition to university researchers, the Kansas Wheat Innovation Center also hosts the Wheat Genetics Resource Center. This gene bank that houses more than 2,500 wheat species accessions, each of which is a unique genetic combination like the millions of differences from one human child to another. Additionally, the Wheat Genetics Resource Center has more than two dozen scientists dedicated to turning those wild wheat relatives into usable genes.

The Wheat Genetics Resource Center can help Fritz identify the novel genes from wheat's wild relatives, but the relationship with Heartland Plant Innovations is key to getting them into a form that Fritz can use in his breeding program. Heartland Plant Inno-

ventions - public/private collaboration between Kansas Wheat, Kansas State University, the University of Kansas and private investors - can use doubled haploids to speed up the process and make those genes more accessible to Fritz for crossing. Then, Fritz can cross the wild relative lines into existing wheat varieties as well as introduce them into experimental lines waiting to become the next great K-State wheat variety.

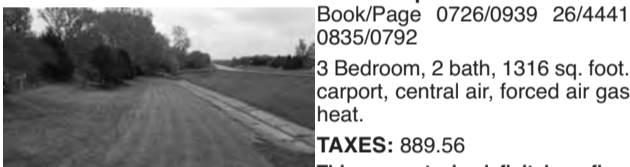
"This collaborative piece makes K-State unique. There are a lot of people who work on wheat here and we work together well," Fritz said. "Equally important is our ability to work well with the Kansas Wheat Commission and Kansas Wheat Alliance."

After all, Kansas farmers will be the ultimate beneficiary of researchers' hard work with new varieties armed with ancient genes to minimize environmental damage, maximize yield and even enhance quality.

REAL ESTATE AUCTION

TUESDAY, JULY 7 — 7:00 PM
ON SITE

LOCATION: 6015 Tuttle Terr. — MANHATTAN, KS



LEGAL DESCRIPTION: S22 . T09 , R07E , ACRES 0.6 , BEG 70'W SW COR LT2 SHADY SLOP E SUBD TH SW40', NW450', NELY495 'ALG RD ROW TO POB Lot Width: 495.0
Lot Depth: 450.0 Deed Book/Page 0726/0939 26/4441 0835/0792

3 Bedroom, 2 bath, 1316 sq. foot. carpet, central air, forced air gas heat.

TAXES: 889.56

This property is definitely a fixer upper with an excellent location. Just minutes from Manhattan located right along Tuttle Creek Blvd. This home is a 1976 manufactured mobile home. It offers the following language recorded with Riley County register of deeds.

10. Affidavit of Permanently Affixed Manufacture/Mobile Home and Application to Eliminate Title for the 1976 Mobile 9x50 ID# KS131865 mobile home filed June 14, 2013 and recorded in Book 855, Page 4931 in the Office of the Register of Deeds of Riley County Kansas.

11. Affidavit of Permanently Affixed Manufacture/Mobile Home and Application to Eliminate Title for the 1976 Mobile 14x50 ID# KS131865 and KS131864 mobile home filed June 14, 2013 and recorded in Book 855, Page 4933, in the Office of the Register of Deeds of Riley County Kansas.

TERMS: Property sells AS IS, WHERE IS. 10% non-refundable down payment is required day of sale by check. Buyers must be able to close on or before August 7, 2015. Cost of Title Insurance and Closing Costs to be split equally between Buyer and Seller. All announcements day of sale take precedence over written materials. Crossroads Real Estate & Auction LLC is representing the sellers.

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Bring on the beans, avoid disease

By Jeri Geren,
Crop Production Agent,
Wildcat Extension District

Although tofu and soy milk are not on my usual shopping list, the many uses and benefits of soybeans in cropping systems make it almost illogical to leave them out of the rotation in an area with favorable growing conditions. Studies have shown for years that crops in a rotation with soybeans receive many benefits when compared with a monoculture cropping system. That being said, sometimes the soybean crop doesn't fare as well as we had hoped and leads to disappointment and frustration when yields are calculated. It's a good management practice to understand and try to eliminate the causes of poor soybean performance.

There are a number of is-

ues that can cause yield reductions in soybean fields. Early-emerging weeds, nutrient deficiencies in the soil, and insects are often major contributors to this ongoing problem. One that may be often overlooked, or even the least understood, are the numerous diseases attacking soybeans throughout the growing season. In any given year, there may be 25 different diseases occurring; however, only a handful of those are actually responsible for the bulk of disease losses.

The primary pathogens responsible for seed rots and seedling blights include Pythium, Rhizoctonia, and Fusarium, although occasionally others can be involved. In most cases, seed treatments are an effective means of dealing with seedling blights. Use products containing two or more active ingredients to broaden the spectrum of control.

A recent two-year survey indicated that nearly 20

percent of Kansas soybean fields are infested with soybean cyst nematode. Planting time is the best platform to begin managing soybean cyst nematode and soybean sudden death syndrome. Choosing resistant varieties is the best way to manage both diseases. Research has shown that soybean cyst nematode is a predisposition agent to sudden death syndrome, which means you rarely see a field infected with sudden death syndrome that does not already have soybean cyst nematode in it.

The most significant soybean disease in Kansas is charcoal rot. While this pathogen infects soybean roots early in the growing season, it does not show up until the reproductive stages of growth when hot, dry weather occurs. Under heat and drought stress, the fungus becomes active and slowly kills the plant, causing a premature death with smaller seeds and reduced yields. The most effective

management for charcoal rot is reducing seeding rates to 100,000 seeds per acre so there are fewer plants competing for moisture in a dry year.

There are several other foliar and late season stem and pod diseases that can reduce soybean yields. The best and most effective management tool to controlling soybean diseases is to be informed and stay alert. Know what diseases are present, how to help avoid the issue, if possible, and know what measures to take to reduce yield loss and prepare for the next growing season. Soybeans can be a great addition to cropping system rotations, and even better if they are given a fighting chance.

If you have questions or would like more information, please call me at the office (620) 331-2690 or email me at jljsigle@ksu.edu, or visit the Wildcat Extension District website at www.wildcatdistrict.ksu.edu.

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SATURDAY JULY 11, 2015 • 9:00 AM

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VEHICLES, BOAT & MOTORCYCLE: 2007 Chevy Cavalier, 4 dr., 2.2 Ecotech, auto, AC, odometer shows 46,234 mi.; Kawasaki 650 Dirt bike; (vehicles have not been ran in past year, will have info at auction); 1999 Nitro 700LX Bass boat w/ 90 Mercury tracker Outboard #US BUJ04448K899; 1989

cutting torch w/ Victor gauges & Oxweld End; Dewalt Tools; etc.
MOWER, FISHING & OUTDOOR ITEMS Husqvarna 54" riding mower, auto, Kawasaki engine; Stihl gas leaf blower; Several fishing poles; Fishing lures, approx. 75-100 lures (Rapala, Ratlin, Flat Rap, Minnow Rap, Floating, Hot-N-Tot); Wood felt lined tool box; misc. pocket knives; etc.

FURNITURE, HOUSEHOLD & APPLIANCES LG Direct Drive Washing Machine, front load, red; La-Z-Boy reclining sofa; wood coffee table; round oak kitchen table w/ 4 chairs; matching dresser and chest of drawers; Amana Chest Deep Freezer; Trek 3900 Alpha Mountain Bike; Sony Bravia Flat Panel 32" TV; Sony Playstation 3 gaming system; Sony Blu-Ray 3D player; Sole F80 Treadmill; Dirt Devil; Paper shredder; EP Electra Water skis.

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Scientists advocate a community-based approach to herbicide resistance management

Weeds resistant to glyphosate and other herbicides can become a costly problem – crowding out valuable crops, dramatically reducing yields and increasing weed control expenses. But scientists with the Weed Science Society of America (WSSA) say growers can regain the upper hand, especially if they are willing to partner with their neighbors in community-based weed control programs.

“While there are steps individual growers can take to battle herbicide resistance by varying the weed control tactics they use, seeds from resistant weeds can still be transported from farm to farm and make the job harder,” says Lee Van Wychen, Ph.D., science policy director for WSSA. “Resistance management works best when all farmers in a community band together – especially those who grow similar crops and face the same weed control challenges.”

Community-based approaches are proving their worth in Arkansas where cotton and soybean producers are battling herbicide-resistant Palmer amaranth, commonly known as pigweed. Pigweed grows prolifically and can have a devastating financial impact. Studies show yield losses of nearly 70 percent when pig-

weed is allowed to compete with cotton. In addition, a single pigweed plant can produce hundreds of thousands of seeds, making early control a must.

Some farmers are now banding together to adopt a “zero tolerance” policy towards pigweed and remove the weed wherever they can find it – hopefully before it can set seed.

One successful community-based, zero-tolerance program is found in Clay County, Arkansas. Farmers on the eastern side of the county agreed to work together to battle pigweed. With support from Clay County extension specialists, field days and production meetings quickly became a forum for education, problem-solving and mutual encouragement.

Participating growers have broadened their weed management program to incorporate a variety of new management tactics designed to battle resistance. One example: They have reintroduced pre-emergence and postemergence herbicides previously abandoned in favor of the sole use of glyphosate. Spot spraying and hand weeding have become the tools of choice to remove pigweed plants that escape controls and are found amid crops, under irrigation lines, along field borders, in ditch banks

and in turn rows.

Jason Norsworthy, professor of weed science at the University of Arkansas and a member of WSSA, says the results have been impressive. After a single year of the zero tolerance approach, the time required to hand-weed escaped plants in a single 50-acre cotton field dropped from 110 hours to five hours. In another field, seed presence in the soil was reduced by 65 percent in a single year. By the second year, seeds could no longer be detected. Those positive results have kept the program on track, along with peer pressure and cheerleading by the Clay County Extension team.

“We haven’t beaten pigweed, but our fields are much cleaner,” says Andy Vangilder, Clay County Extension chair. “You see far less pigweed in the eastern half of the county where we have a community-based approach than you do in the western half where resistance management remains an individual effort.”

Tips for forming your own community-based program

David Ervin, professor emeritus of environmental management and economics at Portland State University and a senior fellow of the Institute for Sustainable Solutions, says farmers in other

communities can learn from the Clay County experience. During a summit on herbicide resistance sponsored by WSSA, he presented several guiding principles gleaned from the efforts of similar communities around the world.

Clearly define the boundaries of the zone where a community-based initiative will be of benefit. Know who is in and who is out. Plan and implement a science-based program for resistance management that responds to local conditions. There simply is no “one size fits all” approach that will apply across all weeds, all crops or all communities. Involve farmers and others who influence weed control in a “bottom-up” process that uses their local knowledge and assures broad participation of key stakeholders.

Engage university researchers, Extension personnel, industry experts and others who may be able to support your efforts and provide insights.

Establish graduated sanctions that will apply to

rule violators, backed by easy-to-follow procedures for resolving conflicts.

Stay the course over time. Resistance management isn’t a one-shot fix. It will require ongoing commitment to new integrated approaches to weed control.

“Most farmers are very independent and self-reliant, but if they overcome those tendencies and collaborate with their neighbors, they can produce larg-

er net gains and help sustain their operations for the long term,” Ervin says.

A University of Arkansas fact sheet on community-based, zero-tolerance Palmer amaranth initiatives is available at www.uaex.edu/publications/pdf/FSA2177.pdf. Additional information on herbicide resistance management techniques can be found at <http://wssa.net/weed/resistance>.

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AUCTION

SATURDAY, JULY 11 — 9:30 AM

Located NW Council Grove, KS City Lake at Waters Edge Loop cabin C-52
DIRECTIONS: From Council Grove, go West on 56 Highway 3 miles to 1300 Rd. and R.J. Bait Shop go North 2 1/2 miles- NW part of Council Grove City Lake turn East at Waters Edge Loop go to C-52 auction site. WATCH FOR SIGNS.

VEHICLES - GENERATOR - COMPRESSORS

1987 Ford F-250 XLT extended cab; 1987 Olds 98 Grande 4 door limited edition produced only for 6 months; 1994 GT Ford Mustang 5 sp. w/over drive, front end damaged, needs restored; Bobcat skid loader Mo. 743 with bucket; large “Champion” commercial compressor w/industrial motor 220V; 5550 Watt Elite series portable generator “like new”; 6’ lawn pull Packer; 2 wheel trailer; 15’x6’8” skid loader trailer with HD ramps and Pamco electric winch; 42” HD metal lathe; stationary 220V metal saw; Duracraft 16 sp. Drill press; Black-Decker Super service valve refacer; Foley portable stand elect. Chain saw sharpener; lg. upright belt sander; Foley scissors sharpener; Sprunger standing jig saw; 2- Delta table saws; radial arm saw 10”; Acetylene welder with bottles on portable stand; welding stand; Sunex engine stand; 2-large metal welding tables; Honda CT70 trail motor bike; nice Go-Cart; Husky rear tine tiller; gas weed eater

9:30 TOOLS

Shovels, forks, bars, sledges, auger, clam shell, Handyman and other jacks; screw drivers, Allen wrenches, files, 3/8 drills, saws, squares and more; Tap-Die sets; wheel barrow and barrels; block-tackles; Yale Spur geared chain hoist; angle polisher; elect. Remington chain saw; pipe vises and clamps; lots of c-clamps; welding clamps; pipe cutters; double flaring tool; gear pullers; welding rod; Pneumatic stapler/nailer; angle grinders; lg. and small channel locks; Pneumatic metal cutter; rock hammers, chisels and more; 4’ levels; David White Sight level w/tripod and measure stick; Come-A-Longs and lots of log chains; shop lights; sockets and open end wrenches; Easy Outs; lg. Ridgid pipe cutter; Chicago elect. 1” rotary drill w/lots of bits; alum. Ramps; 2- wheel pull ball hitch; Allied 2” tie down straps; lots of auto parts and supplies; body parts; 302 engine, misc. motors; lots of metal nails, nuts and bolt bins; wood and metal shelving; 5th wheel; set of P205-R14 tires; more tires and wheels.

TOOL BOXES, ETC.

Mayco tool box, Mac tool box, Snap-on tool box and other carry tool boxes; set of Black Hawk socket set up to 1 9/16” with H.D. breaker bars; Thorsen, Proto, Snap-On sockets; Craftsman tools; Snap-On torque socket wrench and deep socket set; sets of open end Craftsman and Snap-on wrenches; lot of Impact air tools; micrometer; lots more too numerous to list; ext. alum ladders; approx. 750 sq. ft. of Hardy Board or 97 pcs.- 8 inches wide; 56 wood spindles; water-gas cans; antique Triner-Pearless US Post Office scale; platform scale; 35 plus sticks of 20’x5/8 rebar; Chiltons manuals for pickup, truck, van, Clymer Ford 4x4; other manuals: IH, Case, Bobcat, Mercury, White Star, Ford, Modern Gunsmith, Master Service, Hope App., Air. Cond., Fridge, Electrical and plumbing etc.



NOTE: The Late Dennis Taylor had the knowledge and tools to do most everything. Mustang was a work in progress. Lots of great tools. Misc. items not listed. Do not miss this one!
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Tract #1 167.48± Total Acres - SW/4 of S6,T8S, R4W in Cloud County
Directions: From Glasco, head east on Hwy 24 1-mile, turn north on 60th Rd. drive 1-mile

Tract #2 157.67± Total Acres - SE/4 of S20,T8S, R5W in Cloud County
Directions: From Glasco, head south 1.5-miles to Bell Rd., then turn west for 3-miles

Tract #3 159.41± Total Acres - NE/4 of S24,T8S, R6W in Mitchell County

Tract #4 156.04± Total Acres - E/2 of SE/4 of S24, T8S, R6W and E/2 of NE/4 of S25, T8S, R6W in Mitchell County
Directions: From Simpson, head south on Mill St. for 2.5-miles

Sellers: Tract #1 - Jack and Mary Anna Jordan Trust
Tracts #2, #3 & #4 - James Louthan Estate

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Farm, development groups call for coordinated, agriculture-based effort to meet global food security needs

A coalition of farm and international development organizations and agriculture-related foundations sent a letter on June 18 to congressional committees calling for a coordinated ap-

proach from the federal government to meeting global food security needs.

In their letter, the groups stated that international agricultural development is essential to meeting the ur-

gent goal of feeding the world's growing population, expected to rise from 7.2 to 9.1 billion by 2050. Global demand for food will increase by 60 percent during the same period.

"The American Soybean Association has a long history of improving access to food and building markets through the work of the World Initiative for Soy in Human Health. ASA is eager to continue that legacy by being a part of the solution to address global food security issues through agricultural development," said Wade Cowan, the association's president and a soy-

bean farmer from Brownfield, Texas. "Training and engaging in technology transfers with people in least-developed countries helps to alleviate hunger and increase economic opportunities for local people, and provides long-term market growth for U.S. agricultural products abroad."

"AGree commends Congress for its efforts to elevate food and agriculture development as a priority. We believe that the authorizing legislation should institutionalize a whole of government approach that truly acknowledges and leverages the contributions of USDA, research institutions, and

the private sector to achieve a hunger free world," said AGree executive director Deborah Atwood.

The letter also emphasized that the Department of Agriculture, the U.S. land grant university system, farm organizations and agribusiness should be leveraged more prominently in international agricultural development efforts, working in coordination with other development and humanitarian programs administered by the U.S. Agency for International Development. The letter was sent to the Senate Committees on Agriculture, Nutrition and Forestry and

Foreign Relations, and the House Committees on Agriculture and Foreign Affairs.

"U.S. agriculture has a long legacy of hard work, ingenuity, and service," said Tricia Beal, CEO of the Farm Journal Foundation. "Farm Journal Foundation is proud to support this effort to ensure that the U.S. global food security strategy continues to prioritize agricultural development, sharing the best our dynamic community has to offer to empower smallholder farmers to lift themselves out of hunger and poverty. This goal is consistent with our industry's values and its long-term interests."



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TERMS & CONDITION: 15% earnest money due the day of the auction. Balance due when merchantable title and warranty deed are delivered. Closing and possession on or before August 7, 2015. Property sells in As-Is condition. All Buyer's inspections are to be done prior to the auction. Sale is not contingent on the Buyer obtaining financing. Broker and Auctioneers are representing the Seller.

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ANTIQUQUE AUCTION

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Oak curved glass claw foot china cabinet w/lions heads; walnut 6' barrel roll secretary; 3 piece burled walnut bedroom set w/high back bed, brown marble top commode & dresser; mahogany etagere; burled walnut commode; walnut lamp table; brass & marble lamp table; 6 walnut needle point chairs; brass bed; 3 walnut corner chairs; cast iron quilt rack; walnut dresser base; walnut dresser mirror; assortment of chairs; child's chairs; trunks; 30 Hummel figures; **Glass inc.:** Flow blue Hoover Dam plate; 25 cruets; Nippon pieces; Bohemian 3' decanter; lemonade set; chocolate sets; carnival bowl; red flash cups & plates; cut glass water sets, bowls & vases; Mary Gregory vase; pink depression glass; sets glasses; assortment of other glass; Indian pot; crock umbrella holder; ladies hat box; quilt; linens; assortment silver plate inc.: pickle caster, butter dishes, toast holder, bowls, trays; pr. brass elephants; assortment of pictures; guns inc.: Union Machine Co. double barrel hammer 12 ga, 2 other wall hanger guns; Loreco Gasoline Motor Oil glass gas globe; Sinclair 5 gal can; oil fill cans inc.: Sinclair; 30 pocket watches; 8 kitchen & mantel clocks; New Haven Cupid clock; post cards; marbles; metal horse; pop out toaster; dog nut cracker; cast iron Grant & Lee; piano rolls; pine apple butter mold; viewer; Magic Lantern slides; date nails; rooster weather vane; lighting rods w/balls; grinding stone; wooden shoes; brass blade fans; kerosene lanterns; fire extinguishers; wash tub; bath tub faucet; 2 copper candy kettles; 2 dinner bells; repo cast iron fire wagons, ice wagons & other toys; metal yard flowers; picture word puzzle; Old West Collector Buffalo nickels; copper boiler; 78 rpm records; assortment of other collectables.

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Four State Farm Show to be held July 17-19 in Pittsburg

Some of agriculture's newest technology will soon begin to move into place near Pittsburg — signaling the 2015 Four State Farm

Show is quickly approaching.

The area's premier agricultural event is scheduled for July 17, 18 and 19. "This

is the place to see new technology in agriculture," said Ted Gum, Four State Farm Show coordinator and *Farm Talk* newspaper publisher. "People come back to see the new products and for the hands-on element of the show."

Returning to the show this year are the hay equipment and water well drilling demonstrations in addition to the lawn mower test-driving range. Hay demonstrations will take place each day at 1 p.m. Double J Energy will host daily water well drilling demonstrations at 9:30 a.m., 11:30 a.m. and around 2 p.m. after the hay demonstrations.

Visitors also will have the opportunity to win the Four State Farm Show Shopping Spree and shop the great deals at exhibitor booths. "We'll give away \$1,000 a day at the Farm Talk booth and \$500 each day at the hay demonstrations," Gum explained. "You must be present at the hay demonstration to win the \$500." These Farm Show Dollars must be used for purchases with Four State Farm Show exhibitors.

In the past 40 years, the Four State Farm Show has become a "Mall of Agriculture," growing to nearly 700 booths covering over 25 acres. As always, parking and admission are free. Show hours are 7:30 a.m. to 3 p.m. on Friday and Saturday and 8 a.m. to 3 p.m. on Sunday. The Four State Farm Show grounds are located south of Pittsburg, to the junction of Highways 400, 69 and K-171, then one-half mile east.

The Four State Farm Show is sponsored by *Farm Talk* newspaper. For more information, call 1-800-356-8255.

LIQUIDATION AUCTION

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COLLECTIBLES & MISC.:
KU Banners; several Lawrence Kansas framed pictures; #4 Blueband water cooler crock w/lid & spigot; Remington typewriter; adding machines; Tony Biagi framed pictures w/authenticity Eastern Meadowlark 650/1000, Mockingbird 290/650, Cardinals 757/1000, Whitetail Deer 109/650; Patton High Velocity fans; 200 ft. + Gondola single & double sided shelving (most are lighted); 100 ft.+ Industrial Pallet Racking slotted shelving; store displays & fixtures of all kinds; numerous items too many to mention!!!



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BAXTER BLACK

ON THE EDGE OF COMMON SENSE

Three Flat

Now everyone I ever knew that did much work with stock has spent some time in practice throwin' houlhans at rocks. And be they real cowboys or pretenders with a hat, all dream of ropin' just one steer in three point nothin' flat!

Now me, I'm not much diff'erent, I do a little dreamin', and my dream is usually pleasant but I always wake up screamin'! It's a nightmare rank and scary and it turns me gray pale but since you'all are waitin', I'll continue with the tale.

I've made the National Finals in Las Vegas don't

you see, and Clay O'Brien Cooper is my pardner, lucky me.

We're almost in the money when we get our final steer and in my dream I always get to sweatin' right in here.

I'm backed up in the box as the whole crowd quiets down. I shoot a look at Clay and he nods, "Let's go to town!" My horse is at the ready and the steer is pointed right. We need a 3 point 7 to be champions tonight.

I nod my head and out he comes, a'runnin' straight and true. I hear the headgate clangin' and we're just a step or two behind the

poundin' footsteps of that corriente ox. I see my chance and throw it, not ten feet from the box.

Clay, he's like a vision of a 'willer' in the wind; his smooth and graceful loop is flyin' under, down and in.

I look back past my shoulder, see him goin' to the horn, then I feel a solid jerkin'; fer this moment I was born!

I spin around and face him; check the heels, he's got two! I hear the flag a's-nappin' and the crowd has come unglued! I glance up to the scoreboard as the speaker says, "THREE FLAT!" I can almost taste that buckle and I'm grinnin' like a cat.

But the crowd begins to groanin'. I get prickles on my skin. The judge is flaggin' NO TIME and the panic's settin' in! I look down at the critter, say a prayer but it's too late. There my head loop, once so pretty, is now a figure eight!

Now Clay, he don't seem bothered, disappointment, he's above. But, dang! I'm really hurtin' as I look down at my glove. It's not humiliation or fact that I look dumb...I usually wake up screamin' 'cause I've dalled up my thumb!

Kansas farmers endorse students for \$46,500 in scholarships

Thirty-one students in Kansas were awarded a total of \$46,500 in college scholarships this spring from America's Farmers Grow Ag Leaders, sponsored by the Monsanto Fund. The new program encourages rural youth to remain in agriculture and provides \$1,500 scholarships to support their education. Farmers play a vital role by promoting the opportunity to local students and endorsing their applications.

By participating in the program, farmers are helping to develop new talent for the future of ag. The career paths most frequently cited by this year's scholarship recipients are agronomy and farming, agricultural education and agricultural science and research. While many of the students come from farming families, some had little or no previous exposure to agriculture, but developed a strong interest in the industry through participation in FFA or other ag-related youth programs.

Recipient Matthew Roe of Herington is representative of the students who are selected for Grow Ag Leaders scholarships because of his passion for ag and strong leadership qualities. Farmers Barbara and Mark Kickhaefer, also of Herington, endorsed Roe's application.

"Matthew has worked hard for us for the past five years, and we know he will continue to work hard after he returns home to farm after college," said the Kickhaefers. "We told him about the Grow Ag Leaders program because we knew he was deserving of the scholarship. Not many young people are returning home to farm after college, so we need programs like this to support the next generation of agriculture. Matt will be able to learn new techniques at school and bring them back to the farm."

Grow Ag Leaders scholarships, administered by the National FFA Organization, are available to high school seniors and college

students pursuing degrees in ag-related fields. Applicants do not have to be FFA members but are required to receive endorsements from at least three local farmers. With support from the Monsanto Fund, more than \$500,000 in scholarships has been awarded to students this year. For more information, visit GrowAgLeaders.com, and follow us on Facebook, Twitter and Instagram.

America's Farmers Grow Ag Leaders is part of the America's Farmers initiative. Since 2010, the America's Farmers campaign and programs have advocated on behalf of farmers and their efforts to meet society's needs through agriculture. Today, consumers are more interested than ever in agriculture and how food is grown. Consider joining the conversation and helping to raise awareness about agriculture. Learn more at FoodDialogues.com.

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Red Angus stakeholders impact Beef Improvement Federation

Continued from page 11

director of breed improvement Larry Keenan.

Awards

Tom Woodward of Broseco Ranches in Omaha, Texas, received a Pioneer Award. The Pioneer Award is bestowed to individuals who have had a major role in the acceptance of performance re-

porting and documentation as the primary means to make genetic changes in beef cattle. The 2016 BIF conference will be held in Manhattan, Ks. For more information regarding the BIF conference, award winners or to watch recorded videos of the convention visit www.BIFconference.com.

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Ag icons recognized for leadership and excellence

The Agricultural Business Council of Kansas City honored three individuals whose leadership in agriculture policy, practice and academia have contributed to the economic growth of the Heartland's agriculture industry. Senator Bob Dole, Dr. Brady Deaton, retired Chancellor of the University of Missouri, and Dee Likes, Chief Executive Emeritus of the Kansas Livestock Association, all received the Jay B. Dillingham Award for Agriculture Leadership and Excellence at a luncheon ceremony June 17 in the Kansas City Chamber of Commerce Board Room at Union Station.

"These three individuals have had a positive and lasting effect on our community. They are strong examples of what being an advocate for agriculture can accomplish," says Mike Johanning, Chairman of the Agricultural Business Council of Kansas City.

Appearing live via Skype from Washington, Sen. Dole - who was introduced by Council founder Gina Bowman - said it was vital that ag production and agribusiness work together. He also noted there has to be bipartisan compromise to craft effective agriculture policy that is good for farmers, industry, and American citizens: "You have to give a little."

Sen. Dole holds the record as the nation's longest serving Republican lawmaker. He is a national leader and Kansas legend, as well as 27-year veteran of the House and Senate Agriculture Committees. Sen. Dole worked on virtually every major piece of farm legislation during that time, but perhaps none was more important than the 1985 Farm Bill. As he approaches his 92nd birthday this summer, Sen. Dole teased Council members that he was thinking about running for office again "when I get a little older."

Dr. Brady Deaton was described as epitomizing what the Morrill Land Grant Act of 1862 was intended to accomplish. He, himself, called the Land Grant Act the "most powerful institution Congress has created." His efforts in agriculture academics over more than half a century have strengthened global agriculture and economic development.

Dr. Deaton served as chancellor of the University of Missouri (MU) from 2004-2013, after joining the University as a professor and chair of the agricultural economics department in the MU College of Agriculture, Food and Natural Resources in 1989. In 2011, President Barack Obama appointed Deaton the chairman of the Board for International Food and Agricultural Development (BIFAD). He is Director of the Deaton Institute for University Leadership in International Development at the University of Missouri.

Known as the "face of the Kansas livestock industry," Thomas "Dee" Likes served as CEO of the Kansas Livestock Association for three decades, working tirelessly on behalf of Kansas livestock producers. During his tenure, Likes positioned KLA as one of the most respected lobbying organizations in Kansas. Most recently he received a commendation by proclamation from Governor Sam Brownback and the Kansas Senate and House of Representatives for the leadership he provided to cattle ranchers and the beef industry in the state.

Tom Brand, Executive Director of the National Association of Farm Broadcasting, served as master of ceremonies at the luncheon. John Deere and JE Dunn Construction sponsored the event.

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<p>For our sale Friday, June 26th, Feeder steers were finding a good demand. All other classes of cattle were in small supply and selling at steady prices. Several bred cows and pairs were offered and they were finding good interest according to quality and condition.</p> <p>STEERS AND BULL CALVES — 375-925 LBS</p> <table border="0" style="width: 100%; font-size: 0.8em;"> <tr><td>Bonner Springs</td><td>4 blk</td><td>386@312.00</td></tr> <tr><td>Council Grove</td><td>3 xbred</td><td>593@260.00</td></tr> <tr><td>Council Grove</td><td>2 xbred</td><td>675@237.00</td></tr> <tr><td>Soldier</td><td>5 xbred bulls</td><td>601@231.00</td></tr> <tr><td>Baldwin City</td><td>6 blk</td><td>756@220.50</td></tr> <tr><td>Onaga</td><td>58 herford</td><td>903@210.10</td></tr> <tr><td>Alta Vista</td><td>60 xbred</td><td>922@209.00</td></tr> <tr><td>Soldier</td><td>2 blk bulls</td><td>860@184.25</td></tr> </table> <p>HEIFER CALVES — 375-675 LBS.</p> <table border="0" style="width: 100%; font-size: 0.8em;"> <tr><td>Wamego</td><td>3 blk</td><td>475.00</td></tr> <tr><td>Bonner Springs</td><td>4 blk</td><td>377@280.00</td></tr> <tr><td>Baldwin City</td><td>2 bwf</td><td>480@258.00</td></tr> <tr><td>Harveyville</td><td>10 blk</td><td>507@251.00</td></tr> <tr><td>Council Grove</td><td>4 xbred</td><td>590@240.00</td></tr> <tr><td>Harveyville</td><td>10 blk</td><td>622@228.00</td></tr> <tr><td>Soldier</td><td>4 xbred</td><td>645@223.00</td></tr> <tr><td>Council Grove</td><td>2 xbred</td><td>662@220.00</td></tr> </table> <p>COWS & HEIFERETTES — 675-1,775 LBS</p> <table border="0" style="width: 100%; font-size: 0.8em;"> <tr><td>Dwight</td><td>1 blk</td><td>765@193.00</td></tr> <tr><td>Bonner Springs</td><td>2 blk</td><td>742@190.00</td></tr> <tr><td>Soldier</td><td>1 blk</td><td>875@182.00</td></tr> <tr><td>Wamego</td><td>1 blk</td><td>795@170.00</td></tr> <tr><td>Soldier</td><td>1 bwf</td><td>830@165.00</td></tr> <tr><td>Wells</td><td>1 xbred</td><td>675@152.00</td></tr> <tr><td>Soldier</td><td>1 blk</td><td>1040@139.00</td></tr> <tr><td>Soldier</td><td>1 blk</td><td>885@137.00</td></tr> <tr><td>Soldier</td><td>1 blk</td><td>1135@136.00</td></tr> </table>	Bonner Springs	4 blk	386@312.00	Council Grove	3 xbred	593@260.00	Council Grove	2 xbred	675@237.00	Soldier	5 xbred bulls	601@231.00	Baldwin City	6 blk	756@220.50	Onaga	58 herford	903@210.10	Alta Vista	60 xbred	922@209.00	Soldier	2 blk bulls	860@184.25	Wamego	3 blk	475.00	Bonner Springs	4 blk	377@280.00	Baldwin City	2 bwf	480@258.00	Harveyville	10 blk	507@251.00	Council Grove	4 xbred	590@240.00	Harveyville	10 blk	622@228.00	Soldier	4 xbred	645@223.00	Council Grove	2 xbred	662@220.00	Dwight	1 blk	765@193.00	Bonner Springs	2 blk	742@190.00	Soldier	1 blk	875@182.00	Wamego	1 blk	795@170.00	Soldier	1 bwf	830@165.00	Wells	1 xbred	675@152.00	Soldier	1 blk	1040@139.00	Soldier	1 blk	885@137.00	Soldier	1 blk	1135@136.00	<table border="0" style="width: 100%; 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font-size: 0.8em;"> <tr><td>Wells</td><td>1 blk</td><td>1115@147.00</td></tr> <tr><td>Blaine</td><td>1 blk</td><td>1955@146.00</td></tr> </table>	Soldier	1 bwf	945@135.00	Randolph	1 blk	975@124.00	Soldier	1 blk	1085@122.50	Soldier	1 bwf	1175@121.50	Wells	1 xbred	955@120.00	Council Grove	1 xbred	1185@117.50	Soldier	1 blk	1190@115.00	Seneca	1 blk	1380@113.50	Wheaton	1 xbred	1355@113.00	Ottawa	1 blk	1430@112.50	Soldier	1 blk	1250@112.00	Soldier	1 bwf	1340@112.00	Manhattan	1 xbred	1195@112.00	Soldier	1 blk	1225@110.50	Council Grove	1 blk	1420@109.50	Ottawa	1 blk	1175@109.00	Alma	1 blk	1315@109.00	Marysville	1 blk	1475@108.50	Soldier	1 blk	1250@108.00	Randolph	1 blk	1300@107.00	Holton	1 blk	1045@107.00	Holton	1 blk	1135@106.00	Goff	1 holstein	1085@106.00	Manhattan	1 blk	1765@105.50	Soldier	1 blk	1240@105.00	Wells	1 blk	900@105.00	Wells	1 bwf	975@105.00	Wells	1 xbred	1280@99.00	Manhattan	1 holstein	1570@98.00	Wells	1 xbred	1235@96.50	Alta Vista	1 holstein	1285@96.00	Alta Vista	1 holstein	1200@95.00	Alta Vista	1 holstein	1590@93.00	Wells	1 blk	1115@147.00	Blaine	1 blk	1955@146.00	<table border="0" style="width: 100%; font-size: 0.8em;"> <tr><td>Seneca</td><td>1 char</td><td>1785@146.00</td></tr> <tr><td>Axtell</td><td>1 xbred</td><td>1805@135.00</td></tr> <tr><td>Frankfort</td><td>1 herf</td><td>1240@131.00</td></tr> </table> <p>COW/CALF PAIRS</p> <table border="0" style="width: 100%; font-size: 0.8em;"> <tr><td colspan="4">Age</td></tr> <tr><td>Wells</td><td>4 bwf</td><td>3-4yr 2-3mo</td><td>\$3,125.00</td></tr> <tr><td>Wells</td><td>3 xbred</td><td>6 yr 3 mo</td><td>\$3,025.00</td></tr> <tr><td>Wamego</td><td>6 blk</td><td>2</td><td>\$3,000.00</td></tr> <tr><td>Wells</td><td>2 xbred</td><td>5 yr. 2 mo</td><td>\$3,000.00</td></tr> <tr><td>Wheaton</td><td>3 bwf</td><td>BM</td><td>\$2,725.00</td></tr> <tr><td>Wells</td><td>3 xbred</td><td>3 yr. 2 mo</td><td>\$2,600.00</td></tr> <tr><td>Wells</td><td>1 blk</td><td>3</td><td>\$2,575.00</td></tr> <tr><td>Wells</td><td>3 blk</td><td>2-3</td><td>\$2,525.00</td></tr> <tr><td>Marysville</td><td>2 mix</td><td>5-6</td><td>\$2,525.00</td></tr> <tr><td>Frankfort</td><td>1 xbred</td><td>BM</td><td>\$2,500.00</td></tr> <tr><td>Wells</td><td>2 blk</td><td>6</td><td>\$2,475.00</td></tr> <tr><td>Wamego</td><td>5 blk</td><td>2</td><td>\$2,450.00</td></tr> <tr><td>Marysville</td><td>1 blk</td><td>8</td><td>\$2,425.00</td></tr> <tr><td>Wells</td><td>2 xbred</td><td>5</td><td>\$2,400.00</td></tr> <tr><td>Marysville</td><td>1 char</td><td>3</td><td>\$2,400.00</td></tr> <tr><td>Wells</td><td>2 blk</td><td>3 yr 2 mo</td><td>\$2,250.00</td></tr> </table> <p>BRED COWS</p> <table border="0" style="width: 100%; font-size: 0.8em;"> <tr><td colspan="5">Age Mo.</td></tr> <tr><td>Soldier</td><td>2 blk</td><td>6</td><td>8</td><td>\$2,875.00</td></tr> <tr><td>Soldier</td><td>8 blk</td><td>5-6</td><td>6-8</td><td>\$2,810.00</td></tr> <tr><td>Soldier</td><td>1 blk</td><td>7</td><td>5</td><td>\$2,750.00</td></tr> <tr><td>Soldier</td><td>3 blk</td><td>2</td><td>7-8</td><td>\$2,675.00</td></tr> <tr><td>Wamego</td><td>1 blk</td><td>2</td><td>7</td><td>\$2,525.00</td></tr> <tr><td>Alma</td><td>1 xbred</td><td>2</td><td>8</td><td>\$2,425.00</td></tr> <tr><td>Soldier</td><td>3 xbred</td><td>4-5</td><td>5-6</td><td>\$2,350.00</td></tr> <tr><td>Soldier</td><td>1 bwf</td><td>3</td><td>7</td><td>\$2,300.00</td></tr> <tr><td>Soldier</td><td>1 blk</td><td>SS</td><td>8</td><td>\$2,300.00</td></tr> <tr><td>Wells</td><td>3 xbred</td><td>3</td><td>4-5</td><td>\$2,075.00</td></tr> <tr><td>Soldier</td><td>3 blk</td><td>2</td><td>4</td><td>\$1,925.00</td></tr> <tr><td>Council Grove</td><td>1 xbred</td><td>4</td><td>9</td><td>\$1,900.00</td></tr> <tr><td>Soldier</td><td>3 blk</td><td>2</td><td>8</td><td>\$1,850.00</td></tr> <tr><td>Soldier</td><td>3 blk</td><td>BM</td><td>7-8</td><td>\$1,850.00</td></tr> </table>	Seneca	1 char	1785@146.00	Axtell	1 xbred	1805@135.00	Frankfort	1 herf	1240@131.00	Age				Wells	4 bwf	3-4yr 2-3mo	\$3,125.00	Wells	3 xbred	6 yr 3 mo	\$3,025.00	Wamego	6 blk	2	\$3,000.00	Wells	2 xbred	5 yr. 2 mo	\$3,000.00	Wheaton	3 bwf	BM	\$2,725.00	Wells	3 xbred	3 yr. 2 mo	\$2,600.00	Wells	1 blk	3	\$2,575.00	Wells	3 blk	2-3	\$2,525.00	Marysville	2 mix	5-6	\$2,525.00	Frankfort	1 xbred	BM	\$2,500.00	Wells	2 blk	6	\$2,475.00	Wamego	5 blk	2	\$2,450.00	Marysville	1 blk	8	\$2,425.00	Wells	2 xbred	5	\$2,400.00	Marysville	1 char	3	\$2,400.00	Wells	2 blk	3 yr 2 mo	\$2,250.00	Age Mo.					Soldier	2 blk	6	8	\$2,875.00	Soldier	8 blk	5-6	6-8	\$2,810.00	Soldier	1 blk	7	5	\$2,750.00	Soldier	3 blk	2	7-8	\$2,675.00	Wamego	1 blk	2	7	\$2,525.00	Alma	1 xbred	2	8	\$2,425.00	Soldier	3 xbred	4-5	5-6	\$2,350.00	Soldier	1 bwf	3	7	\$2,300.00	Soldier	1 blk	SS	8	\$2,300.00	Wells	3 xbred	3	4-5	\$2,075.00	Soldier	3 blk	2	4	\$1,925.00	Council Grove	1 xbred	4	9	\$1,900.00	Soldier	3 blk	2	8	\$1,850.00	Soldier	3 blk	BM	7-8	\$1,850.00	<p style="text-align: center; font-weight: bold; font-size: 1.2em;">EARLY CONSIGNMENTS FRIDAY, JULY 10TH</p> <p style="font-size: 0.8em;">90 Choice Reputation homeraised blk strs & hfrs, sired by Nelson Angus bulls, one rd shots, no implants, 700-800 lbs.</p> <p style="font-size: 0.8em;">50 Choice Reputation blk strs & hfrs, longtime weaned, off grass, 600-750 lbs.</p> <p style="font-size: 0.8em;">40 Choice Reputation homeraised blk strs & hfrs, sired by Nelson Angus bulls, one rd shots, no implants, 550-650 lbs.</p> <p style="font-size: 0.8em;">35 Reputation blk strs & hfrs, longtime weaned, off grass, 600-725 lbs.</p> <p style="font-size: 0.8em;">10 hereford hfrs, 2 rds shots, wormed weaned, 600-625 lbs.</p> <p style="font-size: 0.8em;">10 bwf strs, 750-800 lbs.</p> <p style="font-size: 0.8em;">2 blk Polled Simm bulls, 15 months old, semen tested</p>
Bonner Springs	4 blk	386@312.00																																																																																																																																																																																																																																																																																																																																													
Council Grove	3 xbred	593@260.00																																																																																																																																																																																																																																																																																																																																													
Council Grove	2 xbred	675@237.00																																																																																																																																																																																																																																																																																																																																													
Soldier	5 xbred bulls	601@231.00																																																																																																																																																																																																																																																																																																																																													
Baldwin City	6 blk	756@220.50																																																																																																																																																																																																																																																																																																																																													
Onaga	58 herford	903@210.10																																																																																																																																																																																																																																																																																																																																													
Alta Vista	60 xbred	922@209.00																																																																																																																																																																																																																																																																																																																																													
Soldier	2 blk bulls	860@184.25																																																																																																																																																																																																																																																																																																																																													
Wamego	3 blk	475.00																																																																																																																																																																																																																																																																																																																																													
Bonner Springs	4 blk	377@280.00																																																																																																																																																																																																																																																																																																																																													
Baldwin City	2 bwf	480@258.00																																																																																																																																																																																																																																																																																																																																													
Harveyville	10 blk	507@251.00																																																																																																																																																																																																																																																																																																																																													
Council Grove	4 xbred	590@240.00																																																																																																																																																																																																																																																																																																																																													
Harveyville	10 blk	622@228.00																																																																																																																																																																																																																																																																																																																																													
Soldier	4 xbred	645@223.00																																																																																																																																																																																																																																																																																																																																													
Council Grove	2 xbred	662@220.00																																																																																																																																																																																																																																																																																																																																													
Dwight	1 blk	765@193.00																																																																																																																																																																																																																																																																																																																																													
Bonner Springs	2 blk	742@190.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	875@182.00																																																																																																																																																																																																																																																																																																																																													
Wamego	1 blk	795@170.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 bwf	830@165.00																																																																																																																																																																																																																																																																																																																																													
Wells	1 xbred	675@152.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	1040@139.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	885@137.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	1135@136.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 bwf	945@135.00																																																																																																																																																																																																																																																																																																																																													
Randolph	1 blk	975@124.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	1085@122.50																																																																																																																																																																																																																																																																																																																																													
Soldier	1 bwf	1175@121.50																																																																																																																																																																																																																																																																																																																																													
Wells	1 xbred	955@120.00																																																																																																																																																																																																																																																																																																																																													
Council Grove	1 xbred	1185@117.50																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	1190@115.00																																																																																																																																																																																																																																																																																																																																													
Seneca	1 blk	1380@113.50																																																																																																																																																																																																																																																																																																																																													
Wheaton	1 xbred	1355@113.00																																																																																																																																																																																																																																																																																																																																													
Ottawa	1 blk	1430@112.50																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	1250@112.00																																																																																																																																																																																																																																																																																																																																													
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Manhattan	1 xbred	1195@112.00																																																																																																																																																																																																																																																																																																																																													
Soldier	1 blk	1225@110.50																																																																																																																																																																																																																																																																																																																																													
Council Grove	1 blk	1420@109.50																																																																																																																																																																																																																																																																																																																																													
Ottawa	1 blk	1175@109.00																																																																																																																																																																																																																																																																																																																																													
Alma	1 blk	1315@109.00																																																																																																																																																																																																																																																																																																																																													
Marysville	1 blk	1475@108.50																																																																																																																																																																																																																																																																																																																																													
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Frankfort	1 xbred	BM	\$2,500.00																																																																																																																																																																																																																																																																																																																																												
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Soldier	1 blk	SS	8	\$2,300.00																																																																																																																																																																																																																																																																																																																																											
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Council Grove	1 xbred	4	9	\$1,900.00																																																																																																																																																																																																																																																																																																																																											
Soldier	3 blk	2	8	\$1,850.00																																																																																																																																																																																																																																																																																																																																											
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HAVE A SAFE
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FOURTH OF JULY

NO SALE
FRIDAY
JULY 3RD

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

----- FIELD REPRESENTATIVES -----

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Kansas Hay Market Report

Hay trade slow. Demand moderate to good for Dairy alfalfa, light for grinding alfalfa and alfalfa pellets and grass hay. Hot, dry, sometimes windy weather has Wheat harvest and alfalfa and Brome hay baling in full swing. Producers are finishing up first cutting and some starting second. Wheat yields and quality vary widely but most are better than expected. If you have hay for sale or pasture to rent or need hay or grazing, use the services of the Hay and Pasture Exchange: www.kfb.org/commodities/haypasture/index.html

Southwest Kansas

Dairy steady and grinding alfalfa steady to 5.00 lower. Movement slow. Alfalfa, Horse, large squares 250.00, small squares 280.00. Dairy, 1.00/point RFV, Supreme 185.00-210.00; Premium 170.00-185.00, Good 150.00-160.00. Fair-Good grinding alfalfa, at the edge of the field 90.00-110.00, mostly 100.00. Ground and delivered locally to feedlots and dairies 125.00-145.00, mostly 125.00-135.00. The week of 6/15-20, 7,328T of grinding alfalfa and 1,110T of dairy alfalfa were delivered. Straw, Good, large bales 60.00-65.00, mostly 65.00. Corn stalks 50.00-60.00, ground and delivered 80.00-100.00. CRP, Good, large rounds 70.00, Fair 55.00-65.00. Cane or BMR Sudan, Good large bales 65.00-75.00.

South Central Kansas

Dairy alfalfa steady, grinding alfalfa steady to 5.00 lower and alfalfa pellets steady. Movement slow. Alfalfa: Horse,

large squares 245.00-270.00, small squares 280.00. Dairy, 1.00/point RFV, a little at 1.07 for out of state shipment, Supreme, New Crop 200.00; Premium 170.00-195.00. Fair-Good grinding alfalfa at the edge of the field 80.00-100.00, mostly 80.00-90.00; Utility-Fair 70.00-80.00. Ground and delivered locally to feedlots, 125.00-145.00. The week of 6/15-20, 3,924T of grinding alfalfa and 725T of dairy alfalfa were delivered. Alfalfa pellets: Sun Cured 15 pct protein 145.00-170.00, 17 pct protein 170.00-190.00; Dehydrated 17 pct 245.00. Straw, Good, large bales 60.00-70.00, mostly 65.00. Cane or BMR Sudan, Good large bales 60.00-70.00, Fair quality 50.00-55.00. Oat hay, Good large round 80.00.

Southeast Kansas

Alfalfa, brome and prairie hay steady. Movement slow. Alfalfa: Horse or Goat, mid squares 250.00; Dairy and Stock Cow 1.00 to 1.07, an instance 1.10/point RFV, Premium-Supreme 200.00. Bluestem: Good, small squares, 120.00-145.00, mid and large squares 80.00-110.00, mostly 80.00-90.00, instance 70.00, large rounds 55.00-65.00, Fair 50.00-55.00; Brome: Good, Small squares 130.00-145.00, mid and large squares 110.00-135.00, large rounds 60.00-75.00. Grass Mulch CWF, large round 45.00-60.00.

Northwest Kansas

Grinding alfalfa steady. Movement slow. Alfalfa: Horse, Mid squares 250.00; Stock cow, Fair-Good, 1.00/point RFV. Fair, Grinding alfalfa at the edge of the field 90.00-100.00. Ground and delivered to feedlots and dairies 115.00-145.00. BMR Sudan and Millet, Good 80.00-95.00.

North Central-Northeast Kansas

Dairy alfalfa and grinding alfalfa steady, prairie hay and

brome steady. Movement slow. Alfalfa: Horse, 300.00, some 8.00-9.00/small square bale; Dairy, Supreme 185.00-220.00, New Crop 1.00-1.10/point RFV; Premium, 170.00-195.00; Stock Cow, Fair-Good, 1.00/point RFV, Utility-Fair grinding alfalfa at the edge of the field, 70.00-95.00; Ground and delivered 130.00-145.00. Grass hay: Bluestem Good, small squares, 5.00-6.00/bale, 120.00-135.00, Mid squares 80.00-100.00, large rounds 45.00-70.00, mostly 50.00-60.00. Brome: Good, small squares, 6.00-7.00/bale, 130.00-145.00/T, Mid squares, 100.00-120.00, Good, large round, 25.00-50.00/bale, 60.00-80.00/T; CWF Grass mulch, large round 60.00-65.00. Straw, Good, small squares 4.00/bale or 4.50-5.00 delivered/bale; large bales 60.00-70.00/T. Sudan, Good large round 70.00-75.00, Fair 60.00-65.00.

***Prices are dollars per ton and FOB unless otherwise noted. Dairy alfalfa prices are for mid and large squares unless otherwise noted. Horse hay is in small squares unless otherwise noted. Prices are from the most recent sales. *CWF Certified Weed Free *RFV calculated using the Wis/Minn formula.

**TDN calculated using the Western formula. Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%). Guidelines are to be used with visual appearance and intent of sale (usage). Source: Kansas Dept of Ag-USDA Market News Service, Dodge City, KS Steve Hessman, Rich Hruska, OIC (620) 227-8881 www.ams.usda.gov/mnreports/DC_GR310.txt The Kansas Hay Market Report is provided by the Kansas Department of Agriculture with technical oversight from the USDA Agricultural Marketing Service.

Combustible grain dust prevention workshop for advanced mitigation methods planned

Kansas State University will offer a combustible grain dust prevention workshop teaching advanced mitigation methods on July 28 from 1 to 4 p.m. in Kansas City, Missouri, prior to the Elevator Design Conference co-sponsored by the *National Grain and Feed Association and Grain Journal*. The

workshop is free and will be hosted at the Westin Kansas City at Crown Center.

The three-hour training will focus on housekeeping practices, proper grain unloading and grain handling, and controls, with a demonstration of sensors and other engineering controls. In this advanced training

program, the emphasis will be on controlling dust in the grain receiving area, spouting design, bucket elevator safety, sensors for bucket elevators and other material handling equipment. In addition, the course will cover venting, explosion suppression and isolation.

"The past two years, we have focused on increasing awareness of basic grain dust explosion understanding and mitigation techniques," said Kingsly Ambrose, project leader and K-State assistant professor in the Department of Grain Science and Industry. "Now we will go beyond this to research-based mitigation methods."

As a result of the workshop, participants will be able to identify active steps to mitigate immediate threats, improve their knowledge on dust mitigation methods and have a better understanding of equipment used throughout a grain handling facility.

This initiative is funded through a grant from the Occupational Safety and Health Administration (OSHA), an agency of the U.S. Department of Labor.

Online registration for the workshop is available at www.grains.k-state.edu/igp/. More information is also available by contacting Ambrose at grainindust@k-state.edu or 785-532-4091.

AUCTION

WEDNESDAY, JULY 8 — 6:00 PM
14010 Pillsbury Dr. — MANHATTAN, KS

1997 F150 4x4 super cab 301K
Astro Magnetic screw driver set, Husky T-driver set, Power Probe circuit tester kit, SAE and Metric end wrench sets, Matco Noid lite testing kit, Blue-Point Plier set, Napa socket set, Gear Wrench ratcheting end wrench set, air compressor, ratchet straps, tow strap, Cargill painted sign.

**SEIZED ASSETS FOR
KANSAS DEPT. OF REVENUE.**

AUCTIONEER'S NOTE: Name brand quality tools. Not many items so be on time!

TERMS: 10% buyer's premium applies to all sales. Forms of payment Credit Cards, Cash or good check. Announcements day of sale take precedence over previous printed materials

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KPA hires director of communications

The Kansas Pork Association is pleased to announce the recent appointment of Kim Hanke as director of communications. Hanke will be responsible for producing the association's publications and dis-

tributing information about the organization to members and the general public. She will also assist in coordinating KPA activities and programs.

Hanke previously worked for Valley Vet Sup-

ply in Marysville as catalog marketing analyst, and brings over ten years of experience in professional writing. She attended McPherson College, where she earned a bachelor's degree in communications.

"I am excited for this opportunity with the KPA," Hanke says. "I look forward to learning more about the industry and building relationships with the pork community."

Danish man follows his dream in the fields of Kansas

(AP) _ When Anders Buus Thomsen looks out the window of his combine, he sees wide-open possibilities.

Acres of ripe wheat stretch across the horizon. He watches as his crew of five workers kicks up dust across the field, working tirelessly into the evening in an effort to harvest the farmer's crop, the *Hutchinson News* reported.

There aren't these opportunities in his native Denmark. But amid the path of wheat that stretches across the nation's middle, Buus Thomsen is living the American dream.

"There is possibility here - that if you work hard, it is possible," the 31-year-old said. "Here, there is the wide-open space to start a business."

Like an olden-day cattle drover, modern-day nomads are inching north as wheat turns from green to golden. They move from one rural farm community to the next, bringing with them an entourage of machinery and manpower. Many live in trailers at the local RV park.

Those camps are somewhat of a melting pot. These days, it is difficult to find Americans who will do the job, which spans from April to November. Custom harvesters often hire foreign workers who don't mind the long hours, working weekends and itinerant living.

That's how Buus Thomsen found his way to Kansas. Nowadays, Anders and his wife, Amanda, are operating BT Harvesting, based out of Kiowa.

He first answered the harvest call in 2006, taking a job with a custom crew in the Barber County town of Kiowa.

After the trip, he returned to Denmark, where his parents have an average-size farm in the country - 160 acres. They also raise mink for the fur market.

Kansas is four times bigger than Denmark, he said, adding it's also overpopulated. The country also has strict regulations and taxes, making it difficult and not profitable for families to get into agriculture.

Buus Thomsen had bought a small acreage in Denmark not long after returning to the country. He soon realized, however, he was homesick for the Midwestern United States. He felt the call of Kansas' wheat crop.

He said he enjoyed the work and the camaraderie of harvest. Moreover, America seemed more advantageous.

"I missed it," he said. "I wanted to come back because I enjoyed it."

He sold his farm. In 2009, he came back to Kansas through The Ohio Program. The Ohio State University J-1 visa internship training program takes skilled trainees like Buus Thomsen, who want to receive advanced training in agriculture, horticulture and similar fields, and pairs them up with U.S. mentors.

In 2010, with \$130,000 from his private savings -

enough to show he was serious - he obtained an investor's visa. He started a limited liability corporation and began harvesting alongside the Kiowa-area operator.

"I fell in feet-first," he said, adding he didn't plan for it to all happen so quickly. "We've been pretty fortunate that we've done well enough that we have been able to grow."

Amanda was teaching in Kiowa when she met her future husband at a barbecue in April 2012.

She was smitten. "He's sweet," she said. She also quickly realized he was passionate about the harvest.

She grew up on a farm in central Illinois but admits she didn't know much about the lifestyle of a custom cutter. She grew up in a place where everyone owned their own combine.

"Everyone in central Illinois did," she said. "It was a concept that was foreign to me."

But in the Wheat Belt, he explained to her, custom harvesters perform a service for those who don't want the expense of owning a combine - especially if it would only be used once a year.

It didn't take her long to fall in love with harvest, too. She began coming on the trip their first summer, then, a few years ago, quit her school teaching job to do books, payroll and paperwork for BT Harvesting, along with cooking the meals for the crew.

The couple married in December.

"It's the people," she said of why she loves it, adding they have friends as far north as Canada. "You get to meet some of the best people. That's what makes it worth it."

Now Buus Thomsen is giving others a chance who want to work and hone their agriculture skills in America.

"They want to be able to drive and use big machinery," Amanda said, adding machinery in other countries is smaller. "They can go home and say, 'This is what I did; this is what I operated.'"

Typically, the couple can find one American for the crew, said Amanda. This year, however, they couldn't find anyone.

The government requires

them to advertise the position before using the H2-A visa program. But the Americans who applied this year either had DUIs on their record and couldn't pass CDL and other driving tests or they didn't like the hours.

So the couple chose five Europeans - two from Denmark, two from Ireland and one from Spain.

Marty, from Spain, began learning English in September so he could take the job - even working on a dairy farm for a few months so he could improve his speech. Jamie, from Ireland, always wanted to take part in the harvest ritual. He left his engineering job and headed across the ocean, Amanda said.

Matt Lund also hails from Denmark. On this stop, he drives the grain cart, maneuvering back and forth between the combines and semis.

He's been to the United States a few times, including as a foreign exchange student. He wants to get his pilot's license and work as a crop duster.

He wanted to experience harvest first.

"It's been really good," Lund said. "I like working in the industry. I like driving big machines."

Christian Larsen, from Denmark, left his girlfriend behind for the seven-month job. He had never been to the United States.

If he's homesick, he doesn't show it. As he drove the combine, he talked about the anticipation of getting started and the excitement of seeing different parts of the country.

Auction LAND AUCTION
When: Thursday, July 9 • 7:00 p.m.
Where: American Legion Building • Marquette, KS
Seller: Peterson Family

320 acres m/l Ellsworth Co. Crop & Pasture

Legal: E2 11-17-6, Langley Township, Ellsworth Co., Kansas.
General Description: Land is 320 acres m/l. 149.90 acres pasture, 144.82 acres crop, 17.28 acres creek and 7 more acres crop on west side of creek.
Land Location: Land is located just south of Kanopolis Lake on Ave U and 30th Rd just 2 miles west of the McPherson County line.
Taxes: 2014 \$1,352.70. Possession: Subject to Tenant's Rights. Possession November 1, 2015 on pasture and Buyer receives pasture rent of \$20 per acre. Possession after wheat harvest 2016 on cropland and Buyer receives 1/3 Landlord share of rent at harvest 2016 and 7 acres cash rent on crop west of creek at \$50 per acre.
Terms on Real Estate: 10% down day of auction and sign sales agreement. Balance due in certified funds at closing on or before August 10, 2015. Title insurance and closing cost shared equally between Buyer and Seller. 2015 property taxes and prior years paid by Seller and 2016 taxes paid by Buyer. Mineral rights included to Buyer.
Announcements day of auction take precedence over printed material.

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Milk production in Kansas more than doubled in past 20 years

(AP) - Milk production in Kansas has more than doubled in the past 20 years, and experts say several factors like the expansion of in-state dairies are behind the increase.

Kansas cows produced 3.1 billion pounds of milk in 2014, a 181 percent increase compared to 1994, the *Topeka Capital-Journal* reported. It's also an increase of 6.1 percent compared to the year before.

The Kansas Department of Agriculture said the state has one of the fastest growth rates in the country, with milk production increasing by at least 5 percent each year since 2012.

In 2014, Kansas produced enough milk for 350 million one-gallon jugs, with a value of around \$746 million, according to the agency. The state has around 325 dairies and 143,000 cows.

Executive director Stephanie Eckroat of the Kansas Dairy Association and Commission said a combination of factors have helped increase milk production, including the expansion of some dairies and each cow producing more milk on average than in the past.

"Dairy farmers are always striving to improve their genetics and milk production," she said.

She said dairy owners in other states have eyed relocating to Kansas because of the availability of alfalfa and other feed grains. Kansas also has low humidity and open land where dairy farmers don't have to worry about upsetting neighbors, Eckroat said.

It's not clear if dairy production will continue to grow at the speed it has in recent years due to water availability being a long-term issue, Eckroat said. Cows need to be well-hydrated and it takes water to grow feed grains, she said.

The agriculture department said 75 percent of Kansas milk is produced in the western half of the state.

UPCOMING AUCTIONS

CONSIGNMENT SALE

601 S. BROADWAY — SALINA, KS
SATURDAY, JULY 11, 2015 AT 10:00

A large consignment of construction equipment from Rolling Hills Ranch along with other consignments. Contact auction staff to consign your items. Consign early and benefit from \$\$\$\$ advertising in newspapers & web sites. Check web site for sale bill.

SNAP-ON TOOLS & TIM RATHBUN ESTATE

1355 AVENUE T, ELLSWORTH, KS
SATURDAY, AUGUST 8, 2015 AT 10:00 AM

Tools, tractors & equipment - contents of a nice shop with Snap-On, DeWalt, other quality tools. Watch web site for sale bill.

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All the way to the tombstone - limiting the impact of Scab

Josh Coltrain,
Crop Production Agent,
Wildcat Extension District

When one of the symptoms is tombstones, it's fairly easy to understand why producers want to avoid Fusarium Head Blight (Scab). Although almost a yearly occurrence in southeast Kansas, Scab appears to be very prevalent this year. While this pest can reduce yield, the potentially more worrisome problem is the production of mycotoxins known as deoxynivalenol (DON) or vomitoxin. Unfortunately, at this time of year

there is not much that can be done about it, although there are some potential ways to limit the impact of this pest.

First, Scab is caused primarily by the fungus *Fusarium graminearum* which is also known as *Gibberella zeae*. This fungus also causes *Gibberella stalk and ear rot* in corn which, with our generally used crop rotation of wheat following corn, amplifies the occurrence of Scab in our area. The infection actually occurs at anthesis (flowering) and requires some moisture

(or high enough humidity) for the fungus to become prevalent. Usually, the first visual symptom is a bleaching of some spikelets on an otherwise healthy looking head. Typically, this bleaching advances to envelop the whole head which appears quite prominent if the healthy heads are still green.

As the seed matures, the diseased grain becomes shriveled and lightweight. Often, a pinkish tint appears on the damaged seed as well. These damaged kernels are often called tomb-

stones and are usually light enough that they are simply blown out of the combine with the chaff.

Just because a plant has been infected with Scab does not guarantee a problem with vomitoxin. However, if a heavy infestation occurs (like this year), producers should prepare for repercussions such as dockage (or flat out rejection) at elevators.

As was mentioned earlier, there is not much that can be done. One recommendation is to increase the fan speed in the combine.

This method targets the Scab infected seeds that are lightweight and, in the process, increases test weight.

Most producers hate it when their mature wheat crop is rained on. However, researchers from South Dakota State (Gautam) and the University of Minnesota (Dill-Macky) published an article in the *Journal of Phytopathology* (Vol. 160, Issue 9, 2012) that may change farmer's minds. Their research showed that free water can actually leach mycotoxins from Scab-in-

fectured wheat heads. While the research did not show the precipitation to completely eliminate DON, it did show that the concentration was lowered. Maybe the recent rains are doing us a favor. Hopefully, next year, we can avoid tombstones just a little bit longer. If you have questions or would like more information, please call me at the office (620) 724-8233, or e-mail me at jcoltrain@ksu.edu, or visit the Wildcat Extension District website at www.wildcat.district.ksu.edu.

Farmers & Ranchers

AUCTIONS EVERY MONDAY & THURSDAY

Selling Hogs & Cattle every Monday

- **THURSDAY SALES WILL RESUME JULY 9TH**
- **WE ARE ON OUR SUMMER SCHEDULE NOW WITH MONDAY SALES ONLY THRU THE MONTH OF JUNE!**

RECEIPTS FOR THE WEEK TOTALED 667 CATTLE AND 93 HOGS.

STEERS		COWS	
64 mix	Galva 811@223.00	1 holst	Clay Center1290@116.00
18 mix	Newton 842@216.00	1 blk	Tescott 1240@114.00
56 mix	Newton 925@207.75	2 blk	Beloit 1198@114.00
HEIFERS		3 red	Salina 1330@112.50
1 blk	Hillsboro 310@310.00	1 blk	Gypsum 1285@112.00
63 mix	Whitewater754@217.35	1 blk	Salina 1455@112.00
68 mix	Assaria 757@215.75	1 blk	New Cambria1250@111.00
57 mix	Tampa 792@209.50	1 bwf	Clay Center1330@111.00
37 mix	Whitewater821@205.00	1 red	Clay Center1135@110.00
3 blk	Wilsey 900@200.00	1 blk	Beloit 1340@110.00
5 blk	Beloit 1043@176.00	SOWS	
BULLS		1 wht	Abilene 600@32.00
1 blk	Galva 1950@137.00	3 wht	Abilene 560@32.00
1 blk	Aurora 2225@136.00	5 wht	Abilene 568@31.50
1 rwf	Manchester1900@133.00	3 wht	Abilene 518@31.00
CALVES		3 wht	Abilene 515@30.00
1 red	Salina 225@925.00	HOGS	
1 blk	Hillsboro 185@900.00	5 wht	Solomon 269@47.00
1 blk	Salina 90@600.00	6 mix	Abilene 213@46.50
1 char	Tampa 90@525.00	1 wht	Hope 225@44.50
		6 mix	Esbon 307@42.50

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• Heavy Duty Round Bale Feeders

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SALE BARN PHONE: 785-825-0211

MONDAY — HOGS & CATTLE

Hogs sell at 10:30 a.m. Cattle at 12:00 Noon. Selling calves and yearlings first, followed by Packer cows and bulls.

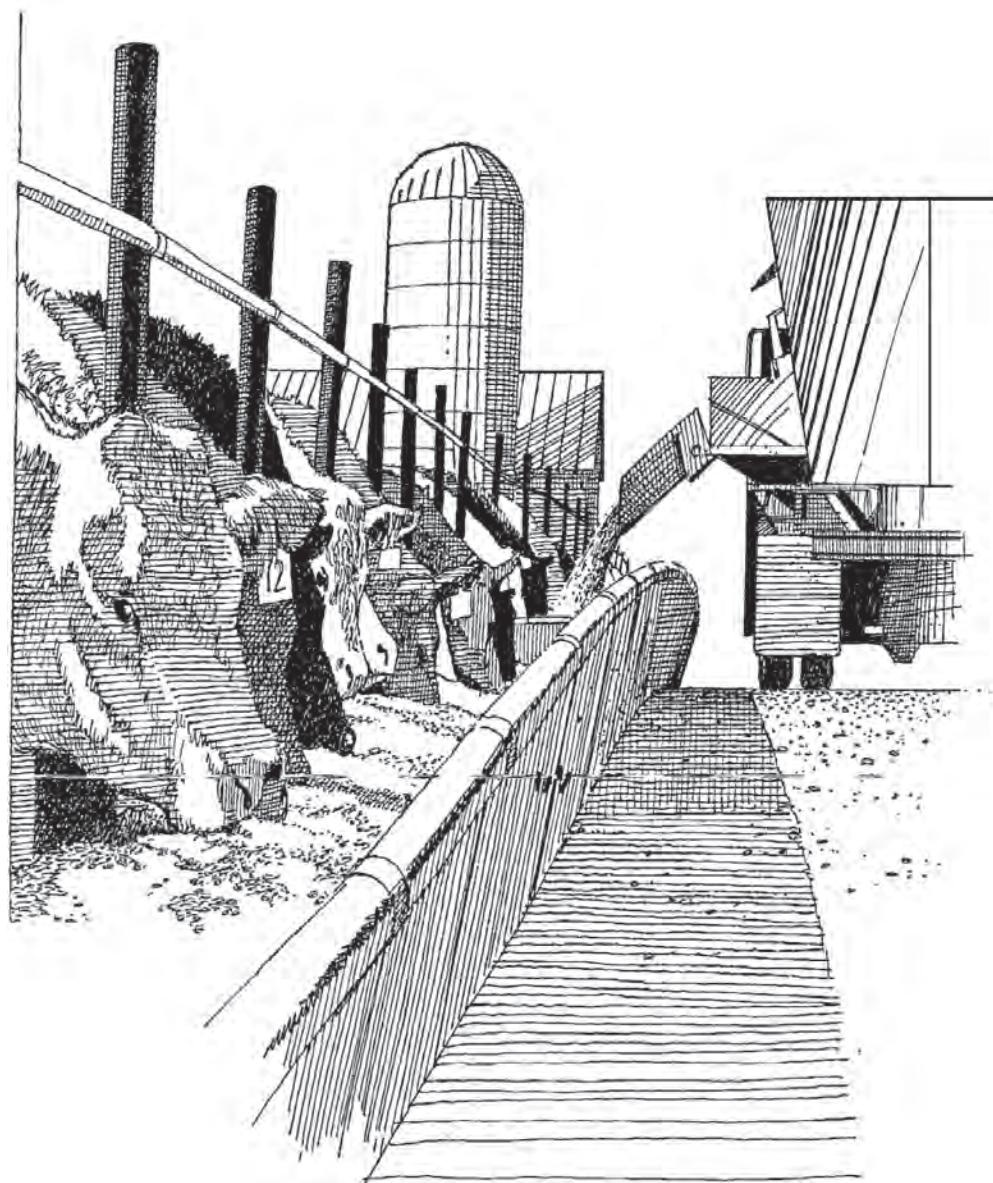
THURSDAY — CATTLE ONLY

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

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For a complete list of cattle for all sales check out our website at www.fandrillive.com



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201 blk str, 900-950 lbs., off grass; 4 blk/char hfrs, 700-800 lbs.; 1 red str, 700-800 lbs.; 30 str & hfrs, 550-650 lbs.

PLUS 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

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Kenny Briscoe
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Kevin Henke
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Agenda, KS

Austin Rathbun
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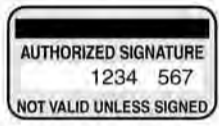
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Recipients of this year's Kansas Horse Council awards are, back row from left: Luke Commerford of Manhattan, Brandon Thomas of Burrton, Ethan Quaney of Burlingame, Zoe Wolsoncroft of Salina, Antonio Ramonda-Pruitt of Topeka. Front row: Jason Klamm of Hutchinson, Chelsea Gabriel of Grain Valley, Mo., Molly Jaax of Wichita, Brianna Crain of Lane, Not pictured Brianna Peddicord of Wamego, MaRyka Smith of Hoyt, Samantha Hendryx of Garden Plain, and Hayley Banister of Auburn.

Kansas Horse Council Foundation awards \$11,250 in scholarships

The Kansas Horse Council Foundation held a ceremony to present \$11,250.00 in scholarship awards on June 9th in Wamego. Rep. Tom Moxley was present to present the awards along with Dale and Bob Clore of the Weary Family Foundation.

The Kansas Horse Council Foundation was founded in 2003 to encourage higher education for individuals involved in the equine industry. Since that time, over \$80,000 in scholarships have been distributed. Funding for the awards is raised through a silent auction held each February at EquiFest of Kansas. This was the first year two Weary Family Foundation scholarships were awarded through KHCF in the amount of \$2500 each to the top male and female candidates. Winners of these prestigious awards are Molly Jaax of Wichita and Antonio Ramonda-Pruitt of Topeka.

Scholarship application information is available on the Kansas Horse Council website, www.kansashorsecouncil.com. Applications are due each year by April 1st.

Literary readings and discussion at Pioneer Bluffs to feature Kansas Notable Book author

Published authors, including the author of a 2015 Kansas Notable Book, will present an upcoming Prairie Talk at Pioneer Bluffs, an historic ranch near Matfield Green.

At 1:30 p.m. on Saturday, July 11, authors Roy J. Beckemeyer and Kimberly Beer will read selections of their works from *Kansas City Voices* magazine. Following the program, the readers and Whispering Prairie Press board members will discuss writing and answer questions on how to have your literary voice published.

Roy J. Beckemeyer of Wichita is a poet and retired aeronautical engineer whose deep interest in natural history and eloquent appreciation for the Kansas prairie will inspire guests to pay close attention to the land. Beckemeyer's first book of poetry, *Music I Once Could Dance To*, has just been selected as a 2015 Kansas Notable Book. His poems have appeared in the *Midwest Quarterly*, *Kansas City Voices*, the *North Dakota Quarterly*, and the anthology, *Begin Again: 150 Kansas Poems*.

Kimberly Beer of Adrian, Missouri, has a passion for telling stories through word and image. She is a rancher, writer, and professional photographer who illuminates country life and the relationship between horse and their riders. Her presentation will include samples of her photogra-

NCGA leaders defend RFS at Kansas City EPA hearing

The top leadership of the National Corn Growers Association was well represented at the field hearing regarding the U.S. Environmental Protection Agency's proposal to reduce the volume of ethanol in the Renewable Fuel Standard.

NCGA president Chip Bowling of Maryland and chairman Martin Barbre joined scores of farmers and others onhand in Kansas City, to speak of the importance of domestic, renewable fuels to the nation. The EPA's proposal would cut nearly 4 billion gallons of ethanol from the RFS through 2016, representing nearly a billion and a half bushels in lost corn demand.

"We simply cannot afford - and will not tolerate - efforts to cut the demand for corn, and that's exactly what your proposal will do," Bowling told the EPA. "We cannot let this stand. We've done our part, and our allies in the ethanol industry have done their part. It's time the EPA sided with those of us supporting a domestic, renewable fuel that's better for the environment."

Bowling ended his testimony telling the group that farmers were watching and would continue to speak out.

"We have never before

seen so much grassroots interest in a particular issue," he said. "The many who came here today had to set aside important work back home, with delayed planting or other important field work. They are here because they know what's at stake."

In his testimony, Barbre spotlighted the importance of the Renewable Fuel Standard and questioned the EPA's methodology.

"Until the EPA proposed changes to the renewable volume obligation for 2014, the RFS was doing exactly what it was intended to do - driving adoption of domestic renewable fuel alternatives to petroleum, supporting jobs across the country, and ensuring the United States remains a global leader in developing new renewable energy sources while decreasing greenhouse gas emissions here at home," he said. "The EPA's proposal threatens these outcomes. At the same time, we are extremely concerned about the methodology behind the EPA's decision. The EPA only has the authority to issue a waiver when reviewing the RVOs if either the RFS would cause 'severe economic harm' to the economy or the environment, or if there is an inadequate domestic supply."

Tickets on sale for Phillipsburg Rodeo

Tickets go on sale July 1 for one of the most anticipated events in Phillips County.

The 86th annual Kansas Biggest Rodeo takes place at the rodeo grounds north of town on July 30-31-August 1, and Heritage Insurance in Phillipsburg will have tickets for sale beginning July 1.

This year's rodeo features rodeo clown Gizmo McCracken, the bucking horses and bulls of Beutler and Son Rodeo Co., announcer Randy Corley, and bullfighters Dusty Tuckness and Aaron Ferguson. Cowboy Kenny and the Steel Rodeo Tour returns with their brand of freestyle motocross to finish off every night of rodeo.

For one of the rodeo committee members, volunteering with the rodeo goes back to his childhood.

J.D. Shelton grew up in Stockton and moved to Phillipsburg when he was in the eighth grade. He remembers his dad, Dale, an electrician, working for the rodeo. In the early days, the rodeo was held in the afternoons because there were no arena lights. Under the direction of Wally Sullivan, secretary of the rodeo for many years, lights were installed by Dale Shelton. Dale dug the trenches, and J.D. and his brother hand-filled them around the electrical work. The first night performances of Kansas Biggest Rodeo took place in 1964.

J.D. also remembers helping his dad wire the portable stage that was set up for the celebrities who used to perform after the rodeo. Phillipsburg hosted the likes of Fess Parker, star of television's "Daniel Boone," Ken Curtis from "Gunsmoke," country music star Lynn Anderson, and others.

J.D. has been on the rodeo committee for fourteen years, and it's something he and the other committee members enjoy doing. "The guys are really dedicated, and get no pay," for being on the committee, he said. The rodeo is "the number one attraction Phillipsburg has. It's the highlight of the whole year for the county." His son Jared is also on the rodeo committee.

Reserved seating tickets for the rodeo are \$15 for adults and \$11 for children ages 3-12. General admission tickets are \$13 for adults and \$10 for children. The Heritage Insurance office is open from 8 a.m. to 5 p.m. each day, and closed for the lunch hour, from noon to 1 p.m.

The rodeo begins at 8 p.m. each night, July 30-31-August 1. For more information, visit the rodeo's website at KansasBiggestRodeo.com or on Facebook, search for "ksbiggestrodeo."

ASA's Henry: Soy growers happy with increased biodiesel volumes, but can produce more

In a recent hearing on the Renewable Fuels Standard held by the Environmental Protection Agency in Kansas City, Kan., American Soybean Association Kansas director Bob Henry pointed to the many benefits of renewable biodiesel produced from soybean oil as he called on the agency to maintain its commitment to clean, domestically produced renewable energy.

"We are proud of the many benefits that biodiesel provides," said Henry, who grows soybeans and corn in Robinson. "...including a more diversified energy market, increased domestic energy production, significant reductions in greenhouse gas emissions resulting in improved air quality, new jobs and economic development, particularly in rural America,

and, of course, expanding markets for soybean farmers."

"The biodiesel and soybean industry has always advocated for RFS volumes that are modest and achievable and we have met or exceeded the targets each and every year that the program has been in place," added Henry. "We have done this without any significant disruption or adverse impacts

to consumers. And I would reiterate that we've done this while also reducing greenhouse gas emissions and providing jobs."

Henry pointed out that ASA is "glad" that EPA's proposed rule increases volumes for biodiesel in the RFS to 1.9 billion gallons in 2017, but noted that the agency has an opportunity to support more aggressive biodiesel levels in the fu-

ture. "We see no reason why EPA should not, at a minimum, support biomass-based diesel volumes of at least 2 billion gallons for 2016 and 2.3 billion gallons for 2017," he said, highlighting that additional soybean oil will be displaced from domestic food markets as a result of the recent FDA determination requiring the elimination of all partially

hydrogenated oil. Henry also illustrated that increasing the biomass-based diesel volumes relative to the total Advanced Biofuels volumes will promote the use of biodiesel over imported Brazilian sugar-cane ethanol, and noted that an increase in the biomass-based diesel volumes would account for the likelihood of increased imports of biodiesel from Argentina.

Rethinking trees in Kansas agriculture

By Tom Parker

In the history of Kansas agriculture, trees have something of a checkered past. From initial legislative efforts to expand tree cultivation through the payment of generous bounties to today's wholesale eradication of windbreaks and hedgerows, the importance, and value, of trees has shifted due to economic, ecological and climatological trends.

Those same trends are now putting trees in a new light through the practice of agroforestry, an intensive integration of trees and shrubs into agricultural systems. But for successful – and profitable – integration, landowners must rethink trees as essential components rather than optional or undesirable. In short, trees have to provide tangible benefits.

"We need to put working trees back on the farm," said Gene Garrett, University of Missouri Center for Agroforestry. "They're there for a purpose. Trees are crops, just like hogs and cattle, and farmers should be thinking of them as having value." Garrett, along with other local and internationally recognized experts on agroforestry practices, spoke on the subject at a two-day workshop in Topeka on May 20-21. The workshop was sponsored by the Kansas Farmers Union, the Kansas Forest Service and other partners.

At the time of Kansas' statehood in 1861, trees were a scarce commodity. Settlement depended on wood for building settlements, bridges, railroads – infrastructure for an expanding civilization – but with only 4.5 million acres of forest available, demand far outstripped supply. One solution was to enact bounties rewarding farmers to plant trees. The first bounty, fifty cents per acre for planting and cultivating trees, was offered in 1865, and increased three years later to two dollars per acre, as well as additional bounties for creating windbreaks along public roads. In 1873 the legislature upped the ante by offering 160 acres of land in return for planting 40 acres of trees.

"Kansans like trees," said Larry Biles, state forester with the Kansas Forest Service. "We have a long history of trying to promote and grow trees across the state."

Unfortunately, Kansans also have a long history of forgetting. Windbreaks and hedgerows planted in the aftermath of the Dust Bowl are being eradicated to provide more cropland, and trees, once so critical to frontier settlements, are often regarded as a type of weed. "I've seen a lot of trees going out, but the decisions we make are driven by short-term policies or economic decisions," said Rich Straight, Forest Service lead agroforester for the USDA's National Agroforestry Center. "Not everyone is in favor of trees."

In many ways, the problem is one of tradition and definition. In the traditional model, pastureland for livestock, cropland and forest are segregated into separate entities. But, Garrett said, we'd be remiss if we didn't think of forests as agriculture. "It's not going to go where it needs to go before we accept that," he said. "There's a clear distinction between what I'm defining and what we think of as traditional agriculture. I'm not talking about planting trees, I'm talking about specifically integrating trees."

Garrett's definition – the manipulation and utilization of biological and physical interactions among components to yield multiple harvestable products while providing numerous conservation and ecological benefits to the farm is based on five fundamental practices: alley-cropping, silvopasture, riparian buffers, windbreaks and forest farming, what he called "the newest kid on the block."

The practice is intensive rather than passive, the deliberate and intentional combination of elements working together. Proper site location, proper species, proper climate and proper maintenance are necessary for elements to work in conjunction with one another, Garrett said. Above all, proper planning is essential.

"When you talk about

putting trees with crops, it sounds simple," he said. "It isn't, not at all. You have to understand the fundamental relationships between them." The amount of shade falling on the understory, tree spacing, alley width, types of forage, surface root depth, and other factors play important roles in harmonic integration.

While Kansans are familiar with windbreaks and riparian buffer zones, alley-cropping, silvopasture and forest farming are relatively new terms, though they've been around since the early 1970s. Alley-cropping is the production of an annual or perennial crop planted between rows of high-value trees chosen for the value of their lumber or their nuts. Desirable species include various species of oaks-bur, red, white-loblolly pine, slash pine, longleaf pine, pecan, and, above all, black walnut, but only under precise conditions.

"Not only do you have the option of nut production with black walnut, you also have wood production," Garrett said. "It's a very valuable tree, but you have to plant it in the right place and you have to take care of it."

An example of successful working trees is the Missouri pine straw industry. Pine straw, or needles, fall in prodigious numbers every two years on some long-leaf pines, and is used for ornamental mulch. A one-acre test plot produced almost 200 35-pound bales of pine straw within seven years of planting, with a retail selling price of six to nine dollars per bale. That averaged to between \$100 and \$350 net per acre, Garrett said, and that's before factoring in timber sales.

Potential companion crops are row cereal crops, forage crops, woody florals, specialty crops – anything that has market value and that will grow on that site," he said. Though it might sound daunting, and sometimes is, Garrett said agroforestry can work everywhere. "Any land that can grow a tree is fair game," he said. "I don't care if you own one acre, ten acres, or one thousand acres, somewhere on your land you have

places for an agroforestry practice."

Silvopasture builds on the concept by integrating livestock with forage and trees into a single system. The term derives from the root "silvo," or the art and science of tending and producing a forest, said Dusty Walter, director of the Natural Resource Management MOAES. "It's the most efficient system to satisfy the changing demands of human society within the natural environment," he said.

Silvopasture, which integrates three components – tree-shade management, livestock husbandry and forage management – can be facilitated by putting pastures into forests or trees into pastures. If the former, the highest-quality and most valuable trees should be spared while creating paddocks, and remaining trees thinned around the crown to allow in more light. How much light depends on the type of forage and companion crops in the understory. If the latter, trees should be protected by electric fences to prevent damage from animals and clean water

should be available every 800 feet. Silvopasture is not, he insisted, one or two trees in a pasture where cows congregate for shade. "That causes problems with overgrazing, soil compaction and high concentrations of nutrients," he said. "We don't want cows to concentrate in certain areas for long periods of time."

Integrating silvopasture differs from forest grazing by a number of factors, many of which pose challenges to landowners, said Carol Williams, University of Missouri Agriculture, Food and Natural Resources. "It can be complex, and these challenges aren't trivial," she said. Besides needing specialized equipment to thin forest canopies, the practice requires knowledge of forest management, water resource development, fertilizer management and control, animal husbandry, and pasture management. "But," she added, "although it seems daunting, a few fundamentals can keep one to the path."

Garrett agreed. "It's not rocket science," he said. "You have to be thinking

ahead for this; you have to be creative. And don't be afraid of it. Anything is possible when you're out there working with plants. You have to dream a little. You can replace trees pretty easily. Go out there and have fun with the trees."

For more information on agroforestry, contact your nearest USDA NRCS office, county Extension office, soil & water conservation district, Kansas Forest Service at 785-532-3310, or the USDA National Agroforestry Center at 402-437-5178. Amazing Grazing is a collaboration of the Kansas Farmers Union and the Kansas Graziers Association. Funding for this project was provided by the North Central Extension Risk Management Education Center & USDA National Institute of Food and Agriculture under Award Number 2012-49200-20032. Project partners include: Kansas Alliance for Wetlands & Streams, Kansas Grazing Lands Coalition, K-State Research and Extension, Farm Credit Associations of Kansas, Kansas Center for Sustainable Agriculture and Alternative Crops, and NRCS-Kansas.

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FIELDMEN

Jim Dalinghaus 785-799-5643 Baileyville, KS
Dave Bures, Auctioneer 402-239-9717 Odell, Nebraska
Jeff Cook 785-564-2173 Hanover, KS
Greg Anderson 785-747-8170 Waterville, KS
Trevor Lundberg 785-770-2271 Frankfort, KS
www.marysvillivelivestock.com

Department of Energy invests in the future of sorghum

The U.S. Department of Energy has recently announced it will be investing \$30 million in sorghum research through the Transportation Energy Resources from Renewable Agriculture (TERRA) program, one of two new programs providing a more secure and sustainable energy future.

"This investment is critical for the sorghum industry's future," said J.B. Stewart, National Sorghum Producers Board chairman. "Producer investments alone cannot move the industry forward. We must have government and private industry investment. We applaud DOE for making such a vital commitment to our rapidly growing industry."

The TERRA program seeks to develop technologies that can increase the precision, accuracy and throughput of energy crops breeding. Doing so will enable more detailed measurements of phenotyping, plant physiology and more sophisticated bioinformatics for gene discovery and trait association.

"This underscore's something we strongly believe in," said Clayton Short, Renewables Committee Chair for the United Sorghum Check-off Program. "Sorghum is a genetically diverse crop ripe for improvement. The DOE realizes this and we are excited to see what additional opportunities this leads too."

This is one of the largest investments the sorghum industry has seen to date and will have a significant impact on the future of sorghum. A total of six projects were funded through the DOE at universities and research institutions across the nation. The project locations are Clemson University, Purdue University, Texas A&M AgriLife Research and Extension, University of Illinois, Pacific Northwest National Laboratory and the Donald Danforth Plant Science Center.

NSP and the Sorghum Checkoff continue to invest in relationships with DOE, private industry and researching universities and will keep members updated as research progresses and results are published.

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SALE EVERY WEDNESDAY IN EMPORIA, KANSAS AT 11:00 AM
 620-342-2425 or 800-835-7803 toll-free • Fax: 620-342-7741

NO SALE TO REPORT 6/24/15

NO SALE JULY 1ST

If you need us to come get a look at your grass cattle, give us a call! We're not too far off the cattle starting to move and we would be glad to come and see you!

THANK YOU FOR ALL OF YOUR CONTINUED SUPPORT!
 YOUR BUSINESS ALWAYS APPRECIATED!

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 LYLE WILLIAMS, Field Representative, 785-229-5457
 WIBW 580 - 6:45 A.M. Thurs;
 KVOE 1400 - 6:30-6:45 A.M. Thurs. & Fri.
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 785.479.1920
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www.cookrealestate.net

AUCTION

SUNDAY, JULY 12 — 11:00 AM

Located at 509 Western Heights Dr. - OVERBROOK, KS
 (2 blks. west of Caseys on Hwy 56, 2 blks south on Western Hts.)

TOOLS- Sell First 11 AM-
 Sears Floor Drill Press; Sjoberg SJD 18x51in. work bench; 4 Bench Dogs; Hawk Scroll saw; 100 Constantie 1/8x24x24in. wood working sheets; HAND TOOLS, ETC; 2 Antique wall Pend. clocks; Herschede Grandfather clock; Several good maple furniture pieces; church pew; 500+ fishing lures, spoons, etc.; thimble collection; old camera equipment; approx. 140 tokens; 15+ old bibles; 6 quilts or tops; 15+ old dolls; 8 wood cuts; selection of old medical items; fish and wildlife mounts & items; lots of costume jewelry; sheet music; books; stamps; sea shells; Christmas; Kitchen items; glass; figurines; etc.. etc..

NOTE: Lots of shade- Large Auction- Two rings- Much, much more

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 Fax: 785-325-2244

If you have cattle to sell, please call us anytime!

Sale Date Has Changed:
 Sales will now be on Monday • Starting Time: 1 PM

SUMMER SCHEDULE:

- June 29th- Regular Sale
- July 6th- No Sale
- July 13th- Regular Sale
- July 20th- No Sale
- July 27th- Regular Sale
- Mondays In August - Regular Sale Weather Permitting

Don't Forget the Video as an option to market your cattle

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Manager: Matt Kruse, 785-556-0715
 Fieldman: Terry Ohlde: 785-747-6554

View our website for current market report!
www.washingtoncountylivestock.com

Eureka Livestock Sale

P.O. Box 267 Eureka, KS 67045
 620-583-5008 Office 620-583-7475

Sale Every Thursday at 11:30 a.m. Sharp

On Thursday, June 25 we had 1,377 hd of cattle on a good market.

STEERS	20 bk 770@222.00	12 bk 558@248.00
4 bwf wf 391@316.00	25 bk bwf wf732@221.00	22 bk 622@242.00
6 bk 423@304.00	10 bk 768@219.75	30 bk bwf 618@241.75
32 bk bwf wf502@280.00	14 bk bwf 817@214.50	10 bk bwf 645@241.75
11 bk bwf 496@277.00	8 bk 831@214.00	24 char 596@230.00
4 bk 571@270.50	45 bk bwf 868@213.25	12 bk bwf 663@226.00
10 char 545@269.00	94 mix 837@209.50	13 bk 707@223.50
12 bk 561@268.75	8 bk bwf 917@208.50	50 bk bwf 707@222.50
12 bk bwf 606@258.50	33 bk char 919@208.25	10 bk bwf 721@219.50
20 char 641@254.50	14 mix 930@207.25	24 bk char 684@218.00
14 bk 638@249.75		14 bk bwf 711@215.00
23 bk bwf 665@241.25	3 bk bwf 363@270.00	13 bk char 804@201.50
8 bk 684@229.00	14 bk bwf 482@270.00	31 mix 790@201.50
46 bk bwf 730@227.75	26 bk bwf wf 519@255.00	16 bk wf 804@199.25
15 bk gray 747@227.00	10 char 504@252.00	14 mix 865@195.50

BUTCHER COWS: \$94-\$122, \$1-\$3 higher, very active
BUTCHER BULLS: \$139-\$144.50, light test
PREG. COWS: \$1,600-\$2,325
PAIRS: \$1,650-\$3,075

NO SALE: JULY 2ND

EARLY CONSIGNMENTS FOR JULY 9:
 115 blk str & hfrs, 400-600 lbs., weaned 35 days & vacc. twice
 150 mix str & hfrs, 700-950 lbs.

We appreciate your business!

Ron Ervin - Owner-Manager
 Home Phone - 620-583-5385
 Mobile Cell 620-750-0123

Austin Evenson- Fieldman
 Mobile Cell 620-750-0222

If you have any cattle to be looked at call Ron or Austin

BELLEVILLE 81 LIVESTOCK SALES

Junction Hwys 36 & 81 Belleville, Kansas

CATTLE SALES EVERY FRIDAY • 10:30 AM

June 26 sale. Big run of slaughter cows for June, outstanding killer market. Poor cows, \$86-\$110; next cut, \$111-\$125; top cows, \$126-\$136.

SLAUGHTER COWS	1405 lbs.	\$129.50	
1535 lbs.	\$120.00	1325 lbs.	\$130.00
1470 lbs.	\$123.00	1230 lbs.	\$131.00
1565 lbs.	\$121.00	1310 lbs.	\$136.00
1495 lbs.	\$125.00		
1435 lbs.	\$125.00	Top 6 yr. old open cow	
1235 lbs.	\$127.00	FEEDER HEIFERS	
1650 lbs.	\$127.50	A lot of Northern Buyers	
1310 lbs.	\$128.00	Looking for Feeders	
1495 lbs.	\$129.00	151-918 lbs.	\$197.00
1465 lbs.	\$129.00	102-935 lbs.	\$194.20
		111-945 lbs.	\$195.00

**NO SALE FRIDAY, JULY 3RD
 HAPPY & SAFE FOURTH!**

CATTLE SALE FRIDAY, JULY 10TH
 Bring us your weigh-ups. Good time to sell. Call to consign.

**SPECIAL END OF RAMADON GOAT-SHEEP SALE
 SATURDAY JULY 18TH 3:00 PM.
 Consign now. A Good sale.**

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Website: Belleville81.com

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 Serving the Midwest Livestock Industry for 62 Years!
 ****STARTING TIME: 12:00 NOON****

WE HAD NO SALE TUESDAY, JUNE 23

Happy Fourth of July!

SUMMER SCHEDULE:
 JUNE 30--CLOSED--NO AUCTION
 JULY 7--REG. WEEKLY AUCTION 12 NOON
 JULY 14- SPECIAL CALF & FEEDER AUCTION 12 NOON

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 WEBSITE: www.holtonlivestock.com
 EMAIL: dan@holtonlivestock.com

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 El Dorado, KS 67042

Reminder!!!
We will be closed for the next 2 weeks!
Our sales will resume Thursday July 9th.
Take this break to relax and enjoy your families.

We welcome your consignments!
 If you have cattle to consign or would like additional information, please call the office at 316-320-3212
 check our website for updated consignments:
www.eldoradolivestock.com

Chris Locke (316) 320-1005 (H) (316) 322-0675 (M)	Steven Hamlin (602) 402-6008 (H) (620) 222-1199 (M)
Larry Womacks, Fieldman (620) 394-3273 (H) (620) 229-0076 (M)	Van Schmidt, Fieldman (620) 367-2331 (H) (620) 345-6879 (M)

Cattle Sale Every Thursday 11:00 AM

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KPA to sponsor 2015 blood drives

Kansas pork farmers continue to give back by teaming up with the American Red Cross to thank blood donors across the state. Through the Kansas Pork Association's "Be Inspired to Make a Difference" program, pulled pork sandwiches are provided for donors and volunteers.

"Our farmers appreciate the opportunity to say thank you to those who are doing such a selfless thing to help others," says Jodi Oleen, KPA director of consumer outreach. In 2014, over 800 donors and volunteers were served sandwiches and 795 pints of blood were collected.

This year, the KPA will sponsor drives in five locations: Great Bend on July 20, El Dorado - July 29, Bern-August 19, Manhattan-September 22 and Independence - October 8.

In addition to the pork, KPA provides goodies for donors, including recipes, pig stress balls and prizes for drawings.

To donate blood, call 1-800-RED CROSS (1-800-733-2767) or visit redecrossblood.org to make an appointment. Local volunteers are also needed to help hand out food. To volunteer, contact Jodi Oleen at 785-776-0442 or jodio@kspork.org.

Demand grows in China for Kansas sorghum

(AP) - Kansas, a major wheat producer, has seen increased demand from China for its sorghum crop.

Kansas typically grows more wheat than any other state and also grows the most milo in the nation. But until recently, none of the state's sorghum, also known as milo, has been exported to China.

China bought 80 percent of the U.S. crop last year, or

3 million metric tons, Kansas Grain Sorghum Director Pat Damman said. This year, China has contracted to buy more than 7 million metric tons, the *Hutchinson News* reported.

U.S. sorghum has gained leverage largely because, unlike corn, it isn't subject to a market tariff or quotas on how much Chinese companies can import. Sorghum, which is largely used to make fuel and fatten livestock, also doesn't require as much water as other crops.

"We're talking about three years ago this wasn't even in the equation," said Rob Hurley, an Iowa native who serves as the U.S. Grains Council's director of programs in Beijing. "There was zero" going to China, he

said.

The U.S. Department of Agriculture estimated that earlier this year planted milo acres would reach 7.9 million in 2015, up 11 percent from the previous season. Kansas, which produces almost half the nation's sorghum, and Texas, the second largest producer, planted 2.85 million and 2.5 million acres respectively in 2014.

Sorghum acreage in Kansas is increasing by about 2 percent and in Texas by 20 percent.

In Kansas, the boost in sales has pushed the price of sorghum above corn, Damman said.

"We went from 40 cents under the price of corn to more than \$1 above the price of corn," he said.

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The American Royal announces return of the steak competition event

The American Royal Association has announced that the fourth annual American Royal Steak Competition Winner will be announced at their 2015 TableSteaks Celebration on October 22, 2015. Beef producers from across the nation are invited to submit ribeye steaks to compete for the best tasting steak. Steaks will be judged by a panel of experts.

"Three years ago marked the first time for this event at the American Royal," says Bob Petersen, president & CEO of the American Royal. "Most traditional cooking contests are like the American Royal World Series of Barbecue® - they are mainly about preparation. This competition is about recognizing America's best steak."

Each steak will be prepared in an identical manner at K-State University Olathe Campus. Points will be assigned for flavor, juiciness, and texture. The judging will take place early October and the winners will be honored at the American Royal 2015 TableSteaks Celebration on October 22.

"This is a great way for beef producers from all over the country to be judged purely on the taste of their steak. Every entry is treated equally and judged according to the same criteria. We are excited to have another year of this event taking place through the American Royal," said Todd Graves, cattle producer and partner in the law firm of Graves Garrett LLC.

It is hard to imagine a more appropriate place to hold a steak competition than the American Royal where 116 years ago the country's first exposition and sale of purebred cattle took place.

Steaks are submitted frozen before September 18, 2015 to the K-State Olathe Campus and entry forms must be submitted online at www.americanroyal.com/events/2015/steak-competition. There is no entry fee for this competition.

The American Royal Association is a not-for-profit 501(c)(3) corporation that has been a Kansas City tradition since 1899. Each year more than 270,000 people attend events at the American Royal Complex. In 2014, the Royal was able to give \$1.4 million in scholarship and educational awards. In addition to its educational mission, the American Royal generates some \$60 million of economic impact, \$4.4 million in local tax revenues, and supports 450 jobs. For further information, see www.americanroyal.com

Grass & Grain Weather Report June 30, 2015

Seven Day Forecast
TUESDAY Sunny High: 91 Low: 70
WEDNESDAY Mostly Sunny High: 89 Low: 68
THURSDAY Mostly Sunny High: 86 Low: 68
FRIDAY Partly Cloudy High: 87 Low: 67
SATURDAY Partly Cloudy High: 84 Low: 65
SUNDAY Isolated T-storms High: 86 Low: 68
MONDAY Mostly Sunny High: 92 Low: 71

In-Depth Local Forecast
 Today we will see sunny skies with a high temperature of 91°, humidity of 39%. The record high temperature for today is 106° set in 1933. Expect partly cloudy skies tonight with a slight chance of showers and thunderstorms, overnight low of 70°. The record low for tonight is 47° set in 1920.

Last Week's Almanac

Date	Hi/Lo	Normals	Precip
6/18	81/69	88/63	0.00"
6/19	87/63	88/63	0.00"
6/20	99/73	88/64	0.00"
6/21	94/72	89/64	0.01"
6/22	99/76	89/64	0.00"
6/23	81/70	89/64	0.00"
6/24	98/70	89/65	0.00"

Rainfall last week: 0.01"
 Normal rainfall: 1.19"
 Departure from normal: -1.18"
 Average temp last week: 80.9°
 Average normal last week: 76.2°
 Departure from normal: +4.7°

Today's Local Outlook

This Week's Sun & Moon Chart

Day	Sunrise	Sunset	Moonrise	Moonset
Tuesday	6:03 a.m.	8:56 p.m.	7:34 p.m.	4:56 a.m.
Wednesday	6:04 a.m.	8:56 p.m.	8:29 p.m.	5:50 a.m.
Thursday	6:04 a.m.	8:56 p.m.	9:20 p.m.	6:50 a.m.
Friday	6:05 a.m.	8:56 p.m.	10:07 p.m.	7:54 a.m.
Saturday	6:05 a.m.	8:56 p.m.	10:50 p.m.	9:02 a.m.
Sunday	6:06 a.m.	8:55 p.m.	11:29 p.m.	10:10 a.m.
Monday	6:06 a.m.	8:55 p.m.	No Rise	11:19 a.m.

Local UV Index
 0-2: Low, 3-5: Moderate, 6-7: High, 8-10: Very High, 11+: Extreme Exposure

Weather History
 June 30, 1972 - The entire state of Pennsylvania was declared a disaster area as a result of the catastrophic flooding caused by Hurricane Agnes, which claimed 48 lives and caused 2.1 billion dollars in damage.

Growing Degree Days

Date	Degree Days	Date	Degree Days
6/18	25	6/22	38
6/19	25	6/23	26
6/20	36	6/24	34
6/21	33		

Sell At St. Marys

Sell Or Buy Cattle By Auction STARTING TIME 10:30 AM Tuesdays

Consignment Schedule:
 • 18 blk str & hfrs, 450-500 lbs.
 • 20 blk str & hfrs, 500-600 lbs.
 • 40 blk str & hfrs, 700-750 lbs.
 • 124 blk char hfrs, 750-800 lbs., off grass
 • 140 blk hfrs, 700-725 lbs.
 • 65 blk char str, 850-875 lbs.

Consignment Schedule:
 • 140 blk hfrs, 700-725 lbs.
 • 65 blk str, 850-875 lbs., off brome
 • 61 blk xbred str, 900-925 lbs.

Watch Our Auctions Live on DVAuctions.com

Our CONSIGNMENTS can now be viewed after 12 Noon on Mondays by going to www.grassandgrain.com & logging onto the online subscription

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