

No-till and cover crops could change farming landscape worldwide, Weil believes

By Donna Sullivan, Editor

Ray Weil, best known for his book The Nature and Properties of Soils, was the opening speaker for the 21st No-Till on the Plains Winter Conference January 24 and 25 in Salina. Prior to Weil's introduction, NTOP president Ryan Speer announced that the conference will be held at Century II in Wichita next year, with world-renowned holistic manager and educator Allan Savory as the keynote speaker. "Our purpose in moving is only to provide variety in our locations, and we will probably return to Salina sometime in the future," he said.

Greg Horstmeier, senior editor for DTN, served as emcee for the arena sessions and expressed his belief that for some of the attendees the conference would be thought-changing, for some it would be game-changing, and for others, he believed it would be life-changing. "I look at the businesses that have started, the partnerships that have started and the friendships and long-term associations that have come about because every January, a bunch of people who really care about something, meet here to talk. Whichever of those camps you find yourself in, I applaud you for being here," Horstmeier said in his welcome.

Weil is from Maryland, where they have been using no-till practices and planting cover crops since the 1970s. In the last decade, he has seen the principals become more widely embraced. "The changes I've seen in agriculture, particularly in the last decade, this is an exciting time," Weil commented. "I like to think that no-till, soil health and cover crops are going to completely change the landscape of farming all over the world." He pointed out that back in the 1990s, it was generally only organic farmers and gardeners that asked him about soil health. But in the 2000s that began to change, as producers became more aware of the role soil health played in the success of their operations.

"It used to just be chemistry and physics," Weil described. "You pour on fertilizer and you till it. Now there's biology, the landscape, precision farming and the plants. Each of the specialities is interconnected. You can't really think of the biology by itself without realizing how that's affected by the physics. Or how the physics are affected by the biology.'

He illustrated the way plants exude chemicals underground to communicate with each other. "If a pest is attacking, it triggers an alarm chemical that allows plants down the row to prepare,' he said. Case in point would be when corn is attacked by the corn root worm. When it feeds on the corn root, the corn exudes a chemical that moves out into the soil like an SOS, directed at a certain class of nematode that comes to its aid by infecting

No-till on the Plains speaker Ray Weil says agriculture is already doing its part to help mitigate climate change, but doesn't always get credit for it. Photo by Donna Sullivan

the insect larvae. According to Weil, if the corn has the ability to exude the chemical when its attacked by the root worm, the injury could be reduced by 60-80%. Weil says this trait tends to get lost in the modern breeding process, because it's not a trait that is actively bred for. "We're breeding for deep roots or angular leaves or yield, so this stuff tends to get lost," he said. "So we need to pay more attention to this kind of thing so we can get the full benefit of the plants and need fewer inputs."

He emphasized that organic matter is key to making farms work efficiently, but that many of the widely-held ideas about organic matter are not exactly correct. "Older textbooks emphasized leaves that fell to the ground and started to decay, not really roots, microbes and as they accrue how they become microbial biomass," he stated. "The new way of thinking is that the roots are much more important in building organic matter than once thought." Nutrients are also needed for building organic matter, which is why diversity is so important to plants and why multi-species cover crops and good crop rotations are so effective. "If you have diversity in the plants, you're going to have diversity in the food that exuded into the soil, more diverse microbial activity and this will create more microbial biomass that eventually becomes the soil organic matter," he explained.

Weil believes that agriculture is already doing its part in helping mitigate climate change, but doesn't always get the credit for it. USDA and NRCS programs have helped increase the quality of U.S. soils. "One of the ways of measuring that is the carbon in U.S. soils," he said. "We have made progress, mostly due to conservation tillage and crop rotations. If we've made this much progress already, I wonder if we could meet international goals?" Excess CO2 is blamed for climate variability and Weil believes that agriculture, with the thousands of acres of land it controls, can capture and store carbon coming from cars, buses, trucks and power plants. "What's not to like?" he queried. "It's improving your soil, reducing CO2, which heats up the earth and changes the climate." He referred to an agreement put forth a couple of years ago in Paris called 4 per 1000, which aims to increase the carbon in farm lands by 4/10 of a percent per year, which is believed would help to stabilize the climate. "All we have to do is what you're doing," he emphasized. :"If everybody went from conservation tillage, rotations and 30% cover to continuous no-till with multi-species cover crops, we'd be doing our part. We'd more than meet that goal."

Heartland Plant Innovations accelerates wheat breeding process

By Jordan Hildebrand, **Program Assistant**

An important cornerstone of the Kansas Wheat Commission's (KWC) mission is research to enhance Kansas farmers' fields and pocketPlant Innovations (HPI), an organization at the heart of wheat genetics.

Founded in 2009 through a public and private collaboration of Kansas Wheat, Kansas State University, and plants that can cut wheat variety development by four to

six years. "We're working on a doubled haploid operation, which means we are working on a population of plants

are exactly alike, something that takes generations of traditional breeding to achieve.

We provide plant breeding services to wheat breeders around the world," said Mohammad Asif, chief scigenes of interest into breeding lines for wheat breeders.

With its many services and research projects, HPI is helping Kansas farmers get the latest and greatest in wheat genetics more quickly

being shaved off of wheat variety development, ensuring a more responsive wheat industry.

For more information about Heartland Plant Innovations, visit heartlandinno-

books. KWC does this most visibly with the wheat breeding program at Kansas State University, but many haven't seen or heard of Heartland

a number of private investors, HPI is developing advanced technologies for gene discovery, trait validation and crop improvement in order to deliver new products and production platforms.

The global research team associated with HPI focuses on emerging commercial opportunities for wheat and sorghum breeding areas in which Kansas has world-renowned leadership and expertise.

HPI was established with the goal of revolutionizing plant breeding and genetics and currently resides in the laboratory and greenhouse spaces at the Kansas Wheat Innovation Center. The HPI team delivers innovative, market-driven research discoveries for rapid commercialization, ensuring that Kansas wheat farmers have cutting edge wheat genetics as quickly as possible.

One flagship service that HPI provides is production of doubled haploids, wheat

that all have the exact same genetics across all of their chromosomes," said Tyler Suelter, research associate at Heartland Plant Innovations. "We do this by getting a cross from one of our breeders, and in this cross they have something they think is interesting. It can be a yield trait, or a disease resistance or some other trait they think will be commercially valuable.'

Once these plants are identified by the breeders and received by HPI, the team of researchers emasculate the plants, leaving only the ovary. The plant is then pollinated with maize pollen; this induces the ovary to produce an embryo but maize pollen does not provide any genetics to the resulting embryo. The embryo will have half of the chromosomes that it should, but the team will later use a mitotic inhibitor to double its chromosome count. The resulting plant has both copies of the chromosomes which entist at Heartland Plant Innovations. "We are producing 25,000-30,000 doubled haploids a year for wheat breeders in the U.S., Canada, Argentina, Brazil and China, as well."

While double haploid production is a valuable service to the wheat industry, it isn't the only project that HPI has to manage.

"Another project we are working on is marker as-sisted selection," said Asif. "Basically, in marker assisted selection we are looking for the genes of interest for the breeders." Haploid plants at 2-3 leaf stage, prior to chromosome doubling, are subjected to marker assisted selection to ensure the retention of gene(s) of interests to the wheat breeders and to discard undesirable genotypes. This saves money, time and space for both HPI and the wheat breeders. Marker assisted selection along with doubled haploid technology is also helping HPI to stack/pyramid

than ever before. Years are vations.com.

ASA, farm groups stress importance of trade in Asia-Pacific region

In a letter to President Donald Trump, the American Soybean Association (ASA), along with 87 other agriculture groups, called on the administration to reduce and eliminate tariffs and other restrictive agricultural policies in the Asia-Pacific region, allowing American workers to supply Asian markets with high-quality food and agricultural goods.

"We hope your administration will create such opportunities for our sector by deepening U.S. economic engagement in this critical region while responding to the Asia-only regional trade agreements being negotiated by our foreign competitors," wrote the groups.

The letter stressed job creation in the U.S. farm sector as a result of international trade, noting that the food and agricultural industry from farm to fork employs more than 15 million Americans, and the food and beverage industry alone represents 12 percent of all U.S. manufacturing jobs.

"America's food and agriculture sector is poised to grow internationally, building upon its well-deserved reputation for high quality products, trusted brands and constant innovation. Our ability to continue to create jobs and support economic growth in rural America depends on maintaining and increasing access to markets outside the United States through existing and future trade agreements," the letter continued.

ASA remains committed to engage with President Trump and his administration on the importance of international trade as it affects soy growers across the country.



Trade already

By John Schlageck, Kansas Farm Bureau

U.S. agriculture needs the Trump administration to strongly support the crops and livestock this nation's farmers produce. Our government must commit to becoming the best we can be in international trade. If we conducted trade the same way we produced food, we wouldn't have trouble moving agricultural products to people who need them overseas.

The United States has the climate, cropland and know-how to supply agricultural products to feed the nations of the hungry world. Our country has the world's best infrastructure. We have some of the most productive farmers and ranchers on this planet.

It's time for the leader-

ship of this country to view American agriculture as one of the premier growth opportunities. For far too long the east and west coasts, and its vast populations receive top billing above those who live in the Heartland. Those who supply much of the world with the healthiest, most affordable food.

Agriculture has taken a back seat to other sectors of this nation's economy for too long. With less than 2 percent of the U.S. population farming and ranching, we are often overlooked.

Remember, our entire rural economy depends on agricultural exports and farm income. Local Kansas banks, implement dealers, grocery stores, even health services, depend on our ability to market wheat,

corn, soybeans, cattle and hogs abroad.

In 2015, U.S. ag exports totaled approximately \$133 billion. This amounts to 25 percent of all U.S. production of grains, feeds, livestock and horticultural products.

Incidentally, nearly half of the wheat from Kansas and other Midwestern states is exported each year. Capiche?

We must become more aggressive in conducting trade agreements. Our secretary of agriculture must make international trade a top priority and work it. Without strong trade agreements that give us free access to the world marketplace, we cannot prosper in agriculture or any other business that depends so much on exports.

If the world's farm trade barriers were removed, this country could increase agricultural commodity sales. What we don't need is additional trade barriers.

Sanctions do not work they only hurt our nation's ability to trade. Each time

we impose new sanctions, we surrender yet another market to competitors who are too willing to sell in our absence.

If the world's farm trade barriers were removed, this country could increase agricultural commodity sales. U.S. farmers could also supply the raw materials for an estimated \$40 billion per year in exports of high-valued processed foods from new plants located primarily in rural areas.

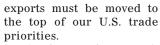
President Trump has expressed a preference for bilateral trade agreements. Negotiate them.

Whether such negotiations are bilateral or multilateral should not matter. What is important is that this president works out trade deals - now.

U.S. agriculture cannot afford to be placed behind other sectors of our economy when this country trades. Our position on the trade pecking order is breaking the back of American agriculture. Farm and ranch

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The future of U.S. agriculture is tied to our competitiveness in world trade. Our country must become more aggressive and assume its leadership role in trade negotiations.

It's past time for our nation's country to lead this trade train. Political posturing and lack of cooperation on both sides of the aisle hasn't worked. Our elected leaders were sent to Washington on behalf of this nation's people. It's time for them to work on behalf of U.S. farmers and ranchers throughout this great nation. Now is the time for them to implement free-trade agreements.

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.

By Ace Reid

@ ACE REID

2/12/2017

BQA certification now free, online, 24/7

You read the headline right. The checkoff's Beef Quality Assurance (BQA) certification is now always free online! It's a new interactive online experience that beef and dairy producers can sign up for and complete at their convenience.

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"It only takes a few hours of watching modules and answering questions, but serves as a checklist for producers to make sure they are using the latest management practices," says Josh White, executive director of producer education for the beef checkoff. "We have seen time and time again how consumer confidence is positively affected when BQA standards are followed, and producers have shown their commitment to producing quality beef by being BQA-certified."

So whether you need to get certified for the first time, or recertified, do it today! It's always free!

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Life is like riding a bicycle. To keep your balance you must keep moving. --Albert Eínstein

DUST ON THE DASHBOARD by Glenn Brunkow

I would like to think that I am not superstitious. Most superstitions seem petty and silly but if I am honest I would admit to having a few myself. Things like if wearing the same exact clothes from one ballgame to the next when I was playing and (if I am going to be totally honest) when I was coaching youth sports. Silly things like not stepping on the baseline when walking onto the field in a baseball game. Even now, if my favorite team is winning when I start watching the game and start to do poorly I will stop watching because, obviously, it was my turning the game on that made things go badly.

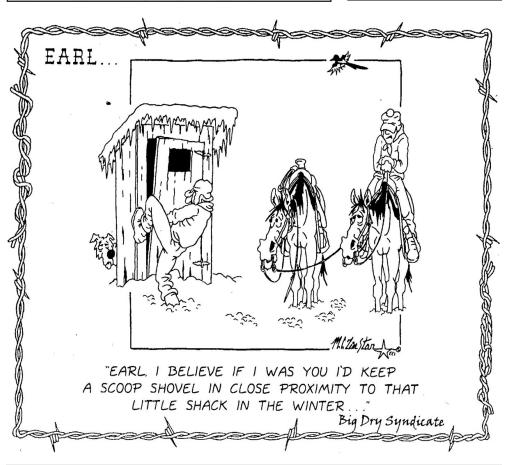
Sports are one thing but real life is another and even then, I must admit that I have superstitions when it comes to my daily life. If things are going good I try not to talk about them because when I do my fortune seems to change. If I have had a string of bad luck I will change my routine up to help change my luck up and when it does I stay with that routine until I talk about it too much and have to change again. Remember I said superstitions are petty, silly and don't make sense.

I would put my coveralls on and they would seem like they weighed twenty extra pounds because of all the wet mud on the legs. However, as the mud dried up in the lots, the legs of my coveralls dried up and just became stiff and crusty.

Lambing season is hard on my cleanliness too. Carrying fresh lambs from one barn to the next and wiping my hands off on the legs adds to the coating of grime and gunk. Pulling lambs, wrestling with the ewes and cleaning pens all take the toll on the sanitary state of my coveralls. I try not to wear them into public this time of the year but when I do I notice the stares of the people around me. Apparently, they do not know or care about the horrible fate that I am staving off by making the sacrifice.

To make matters worse this week, I was carrying a lamb from one pen to another. I take the utmost care to make sure the lambs are safe. As I was transporting the lamb, it made a deposit right on and in the front pocket of my bibs. It just so happened to be the pocket I carry my phone in. I was completely oblivious to this until my daughter pointed it out to me. The phone was easily cleaned off and I have almost forgot about it each time I put it up to my face to make a call. I scraped the excess gooey excrement off the front of my coveralls and soon it dried, leaving only a tell-tale yellowish stain. It was the part that went into the pocket and mixed with the alfalfa leaves, feed and other dirt that caused the biggest problem. I scraped it out the best I could with my pocket knife but the odor lingered. What should I do? Luckily the weather was nice the next two days following this incident, insuring that everything dried well. Sure, the coveralls were a little stiff but my good luck remained and I decided not to wash them and tempt fate. With only eight more weeks of lambing and calving to go it will be nip and tuck as to whether I can make it the remainder of the season without breaking down and giving into the growing mob demanding a washing. But if I do weaken and give in, it should make for a good story. Of course, maybe by talking about it I will scare off the bad luck.

"Wul it's great that yore cows all had twin calves but how come the coyotes got all yore neighbors?"



My main number one superstition is with my chore clothes. During lambing and calving I do not wash my coveralls. This is both rooted in superstition and practicality. Practicality from the standpoint that every time you wash chore clothes, some sort of accident will happen and you will end up just as dirty as before you washed them and this usually happens the first time you wear them.

I guess that also works into the superstition part of the equation. If you wash your coveralls something bad will happen (and get them dirty again). So, I only wash my coveralls sparingly during this time of the year and only after the rest of my family has had an intervention (or Jennifer has just thrown them into the washer, daring fate). I cringe as I put on freshly laundered coveralls, knowing that some calamity is about to rear its ugly head.

That is what is making my current dilemma maddening. The ice storm that didn't happen really did a number on my coveralls. Okay, so it was me tripping over the wagon I left out and falling into the mud that caused most of the damage.

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Grass & Grain, February 14, 2017 USGC, RFA, Growth Energy urge administration to address China trade tariffs on ethanol, DDGS

In a letter to President Donald Trump, the U.S. Grains Council (USGC), Renewable Fuels Association (RFA) and Growth Energy are asking for help "in urgently addressing China's recent implementation of protectionist trade barriers that are shutting out U.S. exports of ethanol and distillers dried grains (DDGS)." Specifically, the three groups are asking the incoming U.S. Trade Representative to put China's recent actions near the top of the administration's China trade agenda.

In September 2016, after a nine-month investigation, China imposed a preliminary anti-dumping duty of 33.8 percent against U.S. DDGS and a countervailing duty of 10-10.7 percent. In a final ruling last month, China increased its DDGS anti-dumping duty to 42.2-53.7 percent and its DDGS countervailing duty to 11.2-12 percent. Additionally, the tariffs on U.S. ethanol have increased from 5 percent to 30-40 percent.

"It is widely believed that raising these tariffs will put an immediate end to ethanol exports to China, erasing the significant progress our industry made in developing that market over the past several years," wrote the groups to Trump. "(W)e respectfully ask that reform of these punitive ethanol tariff rates be included in any potential upcom-

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ing trade negotiations with China.'

China has grown to be a top export market for U.S. DDGS. In 2015, the country imported 6.5 million metric tons of the ethanol co-product, worth \$1.6 billion and accounting for 51 percent of total U.S. DDGS exports. By the end of 2016. China had become the U.S. ethanol industry's third-largest export market, receiving nearly 20 percent of total exports. Nearly 200 million gallons of ethanol worth more than \$300 million were shipped to China last year.

As the letter explained, China's recent actions have contributed to lower prices for ethanol and DDGS. Eth-

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anol prices have fallen 15 percent since mid-December 2016 while DDGS prices have fallen steadily since the summer of 2016. DDGS prices are currently approximately 40 percent lower than in June 2016.

"President Trump's message of 'America First' with regard to trade policy resonated with the U.S. ethanol industry and farmers across the country," said RFA president and CEO Bob Dinneen. "China's growing demand for protein and renewable fuel has triggered significant investment to meet their needs. The sudden and unnecessary reversal in China's trade policy, and the barriers to U.S. imports they have imposed, have jeopardized our industry and penalized Chinese consumers. They need to end. We look forward to working with the president and his administration to restore free and fair trade to the betterment of both."

"The U.S. Grains Council has worked for 35 years in China to help promote export of U.S. grains and their products and, as importantly, the development of the Chinese agriculture sector.

We value these partnerships, however several recent moves in China policy are concerning," said Tom Sleight, USGC president and CEO. "We are working with our industry and will work with the Trump administration to get our relationship back on an even and fair footing.'

"Growth Energy is extremely disappointed with the decision by China to subject U.S. DDGS to anti-dumping and countervail-

ing duties," said Growth Energy CEO Emily Skor. "While DDGS sales into other markets have partially offset the reduction in U.S. shipments to China, the economic loss to the industry and U.S. farmers is significant and underscores the uncertainty of China's reliability as a trade partner. We will continue working with all parties on this important relationship and look forward to the opportunity of revisiting this decision in the future."

Page 3

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Winner Mary Hedberg, Clifton: CARROT PINEAPPLE BREAD

3 eggs

- 2 cups sugar
- 1 cup vegetable oil
- 1 cup finely shredded carrots 8-ounce can crushed pineapple, undrained
- 2 teaspoons vanilla extract
- 3 cups all-purpose flour
- 1 1/2 teaspoons ground cinnamon 1 teaspoon baking soda
- 1 teaspoon salt

In a mixing bowl beat eggs, sugar and oil; add carrots, pineapple and vanilla extract. Combine dry ingredients. Beat into carrot mixture. Pour into 2 greased 8-by-4-by-2-inch loaf pans.

Bake at 325 degrees for 60 or 70 minutes or until toothpick near center comes out clean. Cool in pans for 10 minutes. Remove from pans to a wire rack to cool completely. Yields: 2 loaves.

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- 1 1/2 teaspoons finely grated orange zest
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- 2 tablespoons water

Stir berries, sugar, zest and juice in a slow cooker. Cook on high until bub-

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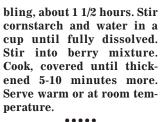
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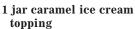
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Beth Scripter. Abilene: BUTTERFINGER CAKE 1 dark chocolate cake mix



- 1 container whipped topping
- 2 Butterfinger candy bars, crushed

Make the cake as the back of the mix tells you to. Bake and then poke holes in the hot cake with a wooden spoon handle. Pour caramel ice cream topping over the warm cake. After this cools. frost with a container of whipped topping. Crush two Butterfinger candy bars and sprinkle over the whipped topping. Store in the refrigerator. Yum!

Kendra Worthen, Clay **Center:**

- TRIFLE DISH
- 1 box brownie mix
- 1 jar hot fudge ice cream topping
- (2) 8-ounce packages cream cheese, softened
- 1 1/2 cups creamy peanut butter
- 14-ounce can sweetened
- condensed milk **1** container Cool Whip

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Lengthening, Shortening

Mix as directed and bake one box of brownie mix (I bake the brownies in 2 small pie plates. The size of the pie plates work perfectly for the trifle dish I use so I didn't have to do anything except slide them into the dish). Cool the brownies completely. Place half the brownies in the bottom of the trifle dish. Warm 3/4 cup hot fudge ice cream topping and drizzle over the brownies. Cream together cream cheese, peanut butter and sweetened condensed milk. Fold in half container Cool Whip. Place half of this peanut butter mixture on top of the brownie/hot fudge layer. Then add the other half of baked brownies. Add the remaining peanut butter mixture. Top with the remaining Cool Whip. Cut up **Reese's Peanut Butter cups** and place on top of the Cool Whip (I drizzle hot fudge on each layer of brownies and on top of the Reese's). Cover. **Refrigerate 4-24 hours and**

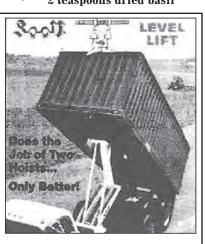
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enjoy!

Laura Conley, Havensville: "So much better and healthier than canned cream soup from the store and full of flavor! Still easy to add to any recipe!" **DIY CREAM OF SOUP**

POWDER 2 cups non-fat dried milk 1 1/2 cups cornstarch 1/2 cup chicken bouillon granules or powder 1/2 cup dried minced onions

2 teaspoons dried basil



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2 teaspoons dried thyme 1 teaspoon dried parsley 1 1/2 teaspoons pepper

Combine all ingredients in a container and put lid on and shake. In place of one can of soup, combine 1/3 cup of the powder mix and 1 1/4 cups of water and heat over medium heat. Cook and whisk until thick and bubbly, then reduce heat and cook 2-3 minutes. You may wish to saute your vegetables (mushrooms, celery, etc.) first and then add mix, or add the mix and water to your pan of meat.

Alice Sperfslage, Sabetha: "Enjoy.'

OATMEAL SUGAR COOKIES

- 1 cup sugar
- 1 cup brown sugar
- 1 cup shortening 2 eggs
- 1/2 teaspoon salt
- 1/2 teaspoon baking powder
- 1 teaspoon baking soda
- 1/2 teaspoon cinnamon
- 1 teaspoon vanilla
- 3 cups oatmeal (quick oats) 1 1/2 cups flour

Cream sugars and shortening; add eggs. Sift dry ingredients (except oatmeal) together and combine with cream mixture. Stir in oatmeal and vanilla. Form dough into balls the size of walnuts. Roll into sugar. Bake at 350 degrees for 10 to 12 minutes on greased sheets.

.

Mary McIntosh, Moundville, Missouri: "I had some quail and I used them to make this. Was very good."

- **CHICKEN IN A POT** 2 carrots, sliced
- 2 onions, sliced
- 2 celery stalks, cut into 1-inch pieces
- 3- to 4-pound whole fryer
- chicken
- 1 teaspoon salt
- 1/2 teaspoon black pepper 1/2 cup water, chicken
- broth or white wine (I use
- the chicken broth)
- 1/2 teaspoon dried basil

Put carrots, onion and celery in bottom of crock-pot. Place whole fryer on top of the vegetables. Sprinkle with salt and pepper and add liquid. Sprinkle basil over the top. Cover and cook on low for 8-10 hours. Remove chicken and vegetables with spatula.

JoAnne Breault, Wamego: "These beans soak in a flavor-rich liquid for 48 hours



before you bake them - so worth the wait. I was once told by an elderly gentleman that they were the 'Best Damn Baked Beans' he had ever tasted! Add a side of cornbread and you have dinner on."

BEST DAMN BAKED BEANS EVER

1 pound dried navy beans

- 3 cups water
- 3/4 cup firmly packed
- brown sugar 1/4 cup light molasses
- 1 cup water
- 1/4 cup finely chopped celery tops
- 1 onion, finely chopped
- 1 bay leaf, crushed
- 1 clove garlic, minced
- 1 teaspoon dry mustard 1 1/2 teaspoons salt
- 1/4 teaspoon pepper
- 1/4 teaspoon ground cinna-
- mon 1/8 teaspoon ground all-
- spice 1/4 teaspoon ground nut-
- meg 1/2 pound ham or salt pork

Wash and sort beans. Place beans and 3 cups water in a large pot. Mix rest of ingredients, except ham. Pour over beans in pot; stir to mix (liquid should cover beans). Refrigerate 48 hours. Add cut-up ham or salt pork just before cooking. Bake uncovered in slow oven (300 degrees) for 6 hours. Then uncover. add 1/2 cup hot water if liquid does not cover beans and bake 1 hour longer. Makes 8 servings

NOTE: You may want to double batch.

Amy Feigley, Abilene: "These muffins freeze well too!"

2 teaspoons baking powder

2 eggs, lightly beaten

1 teaspoon vanilla

1/2 cup butter, melted &

1/2 bag milk chocolate

walnuts (optional)

1/2 cup chopped pecans or

Preheat oven to 400 de-

grees. In large bowl, stir

together flour, sugars and

baking powder. In anoth-

er bowl, stir together milk,

eggs, butter and vanilla

until blended. Make a well

in the center of the dry in-

gredients. Add milk mixture and stir just to com-

bine. Stir in chocolate chips

and nuts. Spoon batter into

- **CHOCOLATE CHIP MUFFINS**
- 2 cups all-purpose flour 1/3 cup light brown sugar,

packed

1/3 cup sugar

2/3 cup milk

cooled

chips

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2. Be sure your name, address

and phone number are on the entry. Please include a street address with your recipe entries. A post office box number is not sufficient for prize delivery. Allow 3-4 weeks for delivery. 3. Send it to: Woman's Page Editor, Grass & Grain, Box 1009, Manhattan, KS 66505. OR e-mail at: auctions@agpress.com

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prepared muffin cups. Bake for 15 to 20 minutes or until a cake tester or toothpick comes out clean. Cool and serve warm or completely cool.

Lydia J. Miller, Westphalia: "This is good warm or cold."

HOMEMADE SALAMI 4 1/2 pounds unsalted ground beef 1 3/4 cups water 1 teaspoon onion powder 1/2 teaspoon garlic powder 2 teaspoons mustard seeds **5** tablespoons Tender Quick 4 teaspoons liquid smoke (optional)

Mix together and shape into rolls. Wrap in aluminum foil (shiny side out). Keep in refrigerator for 2 to 3 days. Poke holes in foil. Put on broiler pan. Bake 1 hour in 350-degree oven. Take out of foil right away. Can be frozen.

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If you're interested in becoming an Extension Master Food Volunteer, the next series of trainings will be Wednesdays and Thursdays starting February 15 through March 9, 2017 from 9:00 a.m. to 4:00 p.m. at K-State Olathe, 22201 West Innovation Drive in Olathe. Applications are due February 1 and information and forms are available by calling 785-843-7058 or visiting the website at www.douglas. ksu.edu.



By Ashleigh Hett

This cookie recipe was one that we found years and years ago. I remember the first time I made them, partly because I couldn't stop eating them after the icing had set up! They remind me so much of those little oatmeal cookies you can buy in a convenience store, but these are much, much better!

My favorite part about them is the icing. Partly because these are "dipped-icing" cookies, but also of when it sets up, because it's the perfect complement to the oatmeal cookie. And the cookie flavor? It's delicious thanks to the cinnamon and nutmeg in it. These cookies won't last long in any household, so it might be necessary to stash several away for yourself! Cookies:

- 2 cups quick cooking oats (or old-fashioned)
- 2 cups flour 1 tablespoon baking pow-
- der
- 1/2 teaspoon baking soda 1/2 teaspoon salt
- 2 teaspoons cinnamon
- 1/2 teaspoon ground nutmeg





1 cup butter, room temperature 1 cup brown sugar, packed 1/2 cup sugar 2 eggs, room temperature

(or run under hot water for 30 seconds) 1 teaspoon vanilla

Icing: 2 cups powdered sugar 3-5 tablespoons milk

1 teaspoon vanilla (or a little less, just depends on your preference!)

Preheat the oven to 350 degrees and line your cookie sheets with waxed paper. Get started on the cookies by pulsing the oats in a food processor several times.



In a large bowl, combine the pulsed oats, flour, baking powder, baking soda, salt, cinnamon, and nutmeg. Set this aside for now

the

In

bowl

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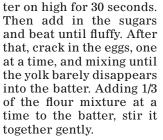
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small balls Drop (roughly 1 1/2 inches wide) of cookie dough onto the lined cookie sheets and bake for 10-12 minutes or until the bottoms are just starting to brown.

Cool on the cookie sheets for 2-3 minutes and then finish cooling completely on a cookie rack.

Once cookies are cooled, mix together the powdered sugar, milk, and vanilla for icing. Dip the cookies into the icing (face down) and then pull them out and set back on the cooling rack again. Let the



icing set up and then dip them all again, so to be sure to get a good coating! Let the icing set-up again and store in an airtight container. Enjoy!



Ashleigh is a freelance writer and blogger for her website, Prairie Gal Cookin' (www.prairiegalcookin.*com*). *She shares everything* from step-by-step recipes and easy DIY projects, to local history, stories, and photography from out on the farm in Kansas. Follow PGC online or like it on Facebook for more recipes and ramblings!



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Grass & Grain, February 14, 2017 Page 6 Living on the Land, a new series presented by Wildcat Extension District

By Josh Coltrain, Crop **Production and Local** Foods Agent, Wildcat **Extension District** If you were to estimate, what percentage of farms acres, between 100 and 500 acres, and more than 500 acres? An entrepreneur came to my office and asked a similar question which

in Kansas are less than 100 has spurred me to consider the programs we have offered in the past and potential changes down the road. If you guessed even thirds on the three size cat-

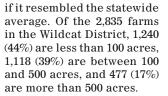
egories, you are a much better estimator than I. Many of our current programs target larger producers but we plan to target all producers in a new series of meetings titled Living on the Land.

According to Merriam-Webster, there are seven ways to define the word farm. However, the United States Department of Agriculture (USDA) defines a farm as "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the year."



Every five years the USDA conducts a Census of Agriculture which encompasses a wide range of measurables, one of which is farm size. The most current Census was conducted in 2012. Of the 61,773 farms in the state of Kansas, 20,460 (33%) are less than 100 acres, 21,796 (35%) are between 100 and 500 acres, and 19,517 (32%) are over 500 acres.

The Census even breaks the data out by specific counties. Since the Wildcat District covers three counties (Crawford, Labette, and Montgomery), I was curious



Our first meeting in the Living on the Land Series is coming up at the Girard High School Cafeteria on the evening of February 16th at 6:00. The first meeting will feature Roger McEowen, the Kansas Farm Bureau Professor of Agricultural Law and Taxation at Washburn University, speaking about Kansas Fence Law. This topic is obviously important to anyone who owns a fence (or has had fence disputes in the past). In addition, Jacob Weber, Wildcat District horticulturist, will present on Fruit Tree Pruning. Also, I will discuss Local Foods Production (or lack thereof) in the state of Kansas.

As always, we welcome input on forthcoming topics for the series. Small pasture management and wildlife habitat are areas we anticipate covering in the future. That being said, the potential topics are bountiful. 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.wildcatdistrict.ksu.edu.



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Kansas is dotted with lakes, beautiful resources for water, flood control, recreation, and wildlife. But this is a recent occurrence on our landscape. Around Kansas has presented segments on some of our lakes, and will try to get to them all eventually. This week, let's take a look at Clinton Reservoir in Douglas County.

Dedicated in 1975, 1500acre Clinton State Park is located on the northeast shore of Clinton Reservoir. The reservoir itself has 7,000 surface acres of water and reaches a depth of 55 feet. It supplies water for more than 100,000 people in northeastern Kansas but six times that number visit the park each year.

While the reservoir and state park serve the region well, the Wakarusa River

Valley Heritage Museum reminds us of the cost of this public works project.

According to the museum's director, Martha Parker, rumors of damming the Wakarusa River had persisted since the early 1900s, but the potential impact on the farmers of the valley was not taken seriously until the Army Corps of Engineers began buying property for the project in the mid-1960s. Families who had tilled the land for several generations were forced to sell and move out. The Corps came to be regarded in much the same way as the invading Missouri border ruffians had been a century earlier.

The residents were concerned not only about the loss of their land but of their identity and history. The valley was a minefield of history from the Bloomington Guards, the Underground Railroad, the First Colored Volunteer Infantry Regiment, and the home of Free State abolitionists, mostly Quakers, who paid with their lives to make Kansas free.

A society incorporated to preserve this story and the museum in Bloomington Park was born. Unable to save the home of Col. J. C. Stelle, the organization moved to the farm's milk barn, which has been renovated and expanded.

The grounds are also home to the Freedom Rings Sculpture that represents the communities destroyed by flooding the valley and the legacy of those who lived there.

Deb Goodrich is the cohost of Around Kansas TV show and may be reached at author.debgoodrich@gmail. com.

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Grass & Grain, February 14, 2017 January precipitation in Kansas ranked No.

7 in 123 years of records, but state still dry

brought ice and snow to parts of Kansas in mid-January pushed the statewide average precipitation to 1.60 inches, more than double the normal amount for the month, but did little to relieve extremely dry conditions in all but the state's midsection.

The month ranked as the seventh-wettest January in the 123 years statewide records have been kept, said assistant state climatologist Mary Knapp, but the U.S. Drought Monitor, released Jan. 31, showed the bulk of Kansas counties in abnormally dry to severe drought conditions. That was not unexpected, because January tends to be the driest month of the year. So, even with above-normal precipitation, western Kansas and

counties saw little relief. The central part of the state received closer-to-normal precipitation during the fall months, which has kept it in better conditions.

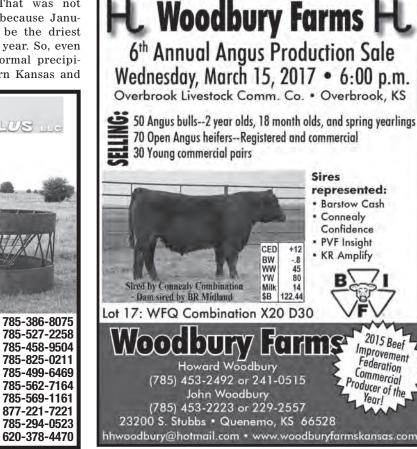
Higher-than-normal temperatures returned in January, with the statewide average at 39.9 degrees F - which is 2 degrees warmer than normal - said Knapp, who is based at the state's Weather Data Library at Kansas State University. That made it the 35th-warmest since 1896. A total of 23 record-high maximum temperatures were set across the state while 68

A winter storm that the state's more eastern record-high minimum temperatures were set during the month. The highest temperature reported was 78 degrees at Pratt on Jan. 31, 2017.

Page 7

The outlook for February is for a continuation of warmer-than-normal conditions, but is neutral on precipitation, according to the Climate Prediction Center of the National Weather Service. Precipitation is equally likely to above or below normal in February.

More information about weather data Kansas is available at www.ksre.k-state.edu/wdl/.



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Science teachers encouraged to sign up early for Kansas Corn's Seed to STEM workshop

The Kansas Corn Commission is doubling its popular Seed to STEM summer workshops for science teachers in 2017. Two summer workshops will give more middle and high school teachers the opportunity to learn the science behind corn. The workshops will be held June 8-9 at Lawrence High School, Lawrence, and June 12-13 at Maize South High School, Wichita.

In addition to lessons and lab experiments about GMOs and ethanol, participants will tour a farm and an ethanol plant and each participant will walk away with \$500 in lab materials. Signups for first-time Seed to STEM participants will begin in February. Each location is capped at 35 participants and Kansas Corn Commission Educational Curriculum Manager Sharon Thielen encourages teachers to sign up early at seed2stem.org.

"The amount of science and technology used in the corn industry is impressive. Our Seed to STEM workshops in Lawrence and Wichita this July will give teachers lots of new ideas they can take back to their science classrooms and labs. We want to help teachers find ways to get students excited about science while also teaching them about our industry," Thielen said. "We're not only providing the teachers with lesson plans and lab experiments, the Kansas Corn Commission is supporting science education in their schools by giving each teacher \$500 worth of lab materials."

At last summer's Seed to STEM workshop, 26 teachers worked through many lab activities and learned how to teach them to their students. Today they are using the supplies they received in the classroom. mer Workshop participant Blake Smith of Maize South High School said, "I'm excited to take what we've learned back to our classrooms. We have all these tools – \$500 worth of equipment – so we actually can go back and do these things."

Lab activities included micropipetting, plant tissue culture, converting biomass to sugars, corn fermentation, and ethanol distillation.

"My colleague Jed Heath and I will spread these lessons over earth science, chemistry, and biology," Smith said. "In three years of classes, students will be exposed to the science behind corn through different lenses. Focusing on one theme will help them see connections and remember what they've learned."

Participants in the 2016 Seed to STEM workshop liked the hands-on aspect of the workshop.

"I like to learn that way and my students do too!" eighth grade science teacher Susan Grommesh said. "I'm a city girl – I buy my corn in the grocery store! I didn't realize the different varieties of corn and all the technology out there. In inner city schools, our kids don't know where our food comes from. I can talk to them about that."

Topics for the 2017 workshop are:

What is the latest on GMOs? Learn how GMOs are improving agriculture; teach genetic modification through modeling; perform a DNA extraction.

How will biotechnology shape our future? Create real GMOs through genetic transformation; use sterile technique to create a plant tissue culture; experience how advances in seed traits increase yield while helping our environment.

How can ethanol make our future more sustainable? Analyze sugar content and discover the importance of enzymes; perform nutrient analysis before/ after fermentation; distill ethanol in your class-room lab; compare renewable and nonrenewable fuel sources.

Registration opens for new participants on February 1, and returning teachers may sign up after March 1. Visit the Seed to STEM website to register at seed-2stem.org. For more information, call the Kansas Corn Commission at 785-448-6922.















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Page 10 Grass & Grain, February 14, 2017 Chairman Roberts, staff receive leadership awards from wheat growers

U.S. Sen. Pat Roberts, R-Kan., chairman of the Senate Committee on Agriculture, Nutrition, and Forestry, and key members of his staff recently received awards for their leadership on issues important to wheat producers from the National Association of Wheat Growers (NAWG) and the Kansas Association of Wheat Growers (KAWG). Roberts also addressed the NAWG and U.S. Wheat Associates Winter Conference.

"I'm honored to receive the 'Wheat Leader of the Year' award," said Roberts. "I'm pleased to have the advice and counsel of the wheat growers as we begin writing the next Farm Bill. We have a lot of work to do to ensure our wheat growers remain the most efficient in the world."

Roberts was presented with the "Wheat Leader of the Year" award, the much-coveted "Wheaties" box, which is given annually to one member of congress based on his or her demonstrated commitment to the well-being and goals of the wheat industry. This is the second time Roberts has received this award.

Members of Roberts' staff received the "Friend of Wheat" award, given annually to congressional staff who demonstrated support for the wheat industry above and beyond the norm. The 2017 recipients include James Glueck, Janae Brady, Wayne Stoskopf, and Will Stafford.

"I am proud of the work of my staff on behalf of Kansas wheat producers and those around the country," Roberts said. "We have a hard-working and knowledgeable staff who put in long hours to ensure American farmers and ranchers are protected and promoted in the U.S. Senate."

James Glueck, policy director for the Committee, coordinates the work of the

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American Gelbvieh Association | 303-465-2333 | www.gelbvieh.org

Kansas Gelbvieh Association www.kansasgelbvieh.org



Bar Arrow Cattle Co Stuart Jarvis 25 E. Limestone Rd Phillipsburg, KS 67661 chairman's policy team that manages the broad range of food and agriculture issues requiring Committee action. Glueck earned a Bachelor of Science degree in Agricultural Development from Texas A&M. Glueck has worked for the Senate Agriculture Committee since 2013.

Janae Brady, senior professional staff, handles international trade and agricultural research for the Senate Agriculture Committee. Brady is a fifth-generation Kansan born and raised in Parsons, Kansas, and grew up working on her family's wheat and sorghum farm located in Deerfield. Brady has worked for Roberts in several capacities for four years and holds a Bachelor of Science degree from Kansas State University as well as a master's

degree from George Washington University.

Wayne Stoskopf, professional staff, covers commodities, crop insurance, and dairy issues for the Committee. He was raised on his family's wheat, sorghum and livestock farm near Hoisington, Kansas. Stoskopf graduated from Kansas State University with a Bachelor of Science Degree in Agribusiness. Stoskopf has worked for the Senate Agriculture Committee since 2015 and previously worked in Roberts' personal office serving as the agriculture legislative assistant.

Will Stafford, Roberts' agriculture legislative assistant since March 2015, is a graduate of Towson University, where he received a Bachelor of Science in Economics.



Members of the U.S. Wheat Associates Board present Sen. Roberts, center, with the Wheaties box in recognition of his commitment to the wheat industry.



Pictured, from left are: KAWG president Mike Jordan of Beloit, Will Stafford, Janae Brady, James Glueck, Wayne Stoskopf and KAWG vice president Ken Wood, Dickinson County.



Post Rock Cattle Co. Bill & Leland Clark 3041 E Hwy 284 Barnard, KS 67418 785-792-6244 prcc@twinvalley.net

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Triple K Gelbvieh Al & Mary Knapp 18291 158th St Basehor, KS 66012 913-219-6613 al@crosswiredllc.com Dawson Creek Gelbvieh Bob & Karla Beying 24114 Easton Rd Easton, KS 66020 913-773-8302 karlabeying@outlook.com

Hightower Cattle Jason Hightower 12043 W 2000 Rd LaCygne, KS 66040 913-757-2269 hightower_cattle@yahoo.com

> Mulroy Farms LLC Tim Mulroy 13141 190th Rd Mayetta, KS 66509 785-640-6401 tim@blackgoldinc.biz

Wheeler & Sons Cattle Co Jerry Wheeler 162 St Hwy 116 Holton, KS 66436 785-872-3516 wheelersoncattle@gmail.com

785-543-5177 bararrow@ruraltel.net

Judd Ranch Dave & Cindy Judd 423 Hwy K68 Pomona, KS 66076 785-566-8371 info@JuddRanch.com

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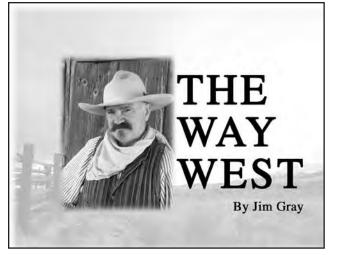
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- Justin Talley: Pests & Control in Beef
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A Remarkable and Tragic Life

White Cloud was Head Chief of the Ioway (Iowa) tribe located along the Des Moines River of southeastern Iowa and northwestern Missouri. During the War of 1812 White Cloud led his people to the western border of Missouri near the Missouri River to escape any contact with the war. Sometime during those tumultuous years of separation, a son, Francis White Cloud, was born.

White Cloud, his wife, Female Flying Pigeon, and another Iowa representative by the name of Great Walker were all taken to Washington, D. C. in 1824 to meet President James Monroe and Superintendent of Indian Affairs Thomas McKenney. To say they were taken advantage of would be an understatement. White Cloud and Great Walker were persuaded to relinquish the Ioway claim to all of the land north of the Missouri River in the State of Missouri for a grand total of five thousand dollars. White Cloud learned to farm and tried to be an example to his people. Unfortunately, he was killed in a revenge murder in 1832.

Young "Frank" White Cloud was thrust to the position of Head Chief when approximately twenty years of age. Noted portrait artist George Catlin met the younger White Cloud not long after his father had been killed. In a letter penned at Fort Leavenworth he noted, "I have been moving about and using my brush amongst different tribes in this vicinity." After several weeks of painting Catlin and two companions left Fort Leavenworth, "and paddled on downriver in their canoe to

I taught my sons

about cattle ...

St. Louis."

In 1836 the government came calling again. It now fell to Frank While Cloud to negotiate another relinquishment of land. If one were to square up the northeast border of Kansas instead of following the meandering Missouri River, the land in that squared corner still officially belonged to the combined tribes of Ioway and Sac & Fox. The "purchase" was signed by a total of twenty-seven representatives of the tribes. They were to receive a "present" of seven thousand five hundred dollars and government help in establishing farms west of the Missouri River in what would become Doniphan County in the very northeast corner of Kansas. There were approximately six hundred Ioway people and a similar number of Sac & Fox.

Fourteen Ioway Indians and an interpreter left their "Kansas" reserve for Europe on an "exhibition tour" in December of 1843. They reached London in July of 1844. George Catlin wrote of their reunion in London, "...seeing me they all rose upon their feet and offered me their hands, saluting me by their accustomed word, "How! How! How! Chip-peho-la!" Among the party, including Frank White Cloud, were Walking Rain and Fast Dancer, all "...had stood before me for their pictures several years previous." Now their portraits were proudly hanging in his collection. Catlin preferred to leave the name "Frank" out of the chief's name. Nineteenth century French novelist and critic George Sand was awestruck at the sight of White Cloud's

portrait. "Robed in his most splendid costume, his face gleaming with precious vermillion paint, he sits, like the prince he is, among his proud acolytes, solemnly smoking his pipe. (He is) a modern Jason." The entourage was introduced to members of the royal family, visited Scotland, Ireland, and were revived by King Louis Philippe of France. After almost two years they returned home in mid-November, 1845.

Frank White Cloud, by this time, had acquired a taste for alcohol which led to the observation that the notable decrease in liquor consumption among the Ioways "was probably due to the absence of two of their Chiefs and their old interpreter ... " The habit did not win any favors with the

Grass & Grain, February 14, 2017

local Presbyterian Missionaries who thought the chief was "not remarkable for any trait except an insatiable thirst for spirits." They also observed that "he has three wives and sometimes four" and offered no encouragement to their mission school.

In May of 1848 the Ioway chief further damaged his reputation when he led a raid on a band of Pawnees. Three men were killed. Evidently without shame, six women and two children

were killed. Frank White Cloud's life began to unravel with threats against the lives of the local agent and the missionaries. He was deposed as Head Chief and later arrested for being a "desperate bad man."

By 1852 smallpox was raging across the reserves. In a letter dated February 16, 1853, Reverend S. M. Irvin wrote that over fifty percent of the Ioway had been carried away by the disease. Frank White Cloud was among them. He was buried on a high bluff overlooking the river that had nourished him throughout both a remarkable and tragic life on The Way West.

"The Cowboy," Jim Gray is author of the book Desperate Seed: Ellsworth Kansas on the Violent Frontier, Executive Director of the National Drovers Hall of Fame. Contact Kansas Cowboy, P.O. Box 62, Ellsworth, KS 67439. Phone 785-531-2058 or kansascowboy@kans.com.



Taliaferro Angus Farms and T Bar T Angus Ranch

9th Annual Bull and Heifer Sale

Saturday, February 18, 2017

12:00 pm

Jason Flory, Auctioneer

LOT 17-



...they showed me how to handle them better at GoBobKansas.com





Grass & Grain, February 14, 2017 Page 12 **Veed control meetings scheduled**

control efforts are your focus, mark vour calendar for a K-State Research and Extension weed control

If corn and soybean weed meeting coming soon to the control efforts with Dr. Cur-Meadowlark Extension District.

> Wednesday, February 22nd will focus on corn weed

AND AUCTIO SATURDAY, FEBRUARY 18 — 10:00 AM Cougar's Den - 219 N. Main St. — MORROWVILLE, KS 645.3 ACRES± WASHINGTON COUNTY KANSAS LAND

TRACT 1: 159.9 acres± with 145.72± DCP cropland acres con-sidered prime farmland. TRACT 2: 269.08 acres± estimated with 228.42± DCP cropland acres considered prime farmland. TRACT 3: 216.32 acres± grassland pasture. Good access.

HEIRS OF WILLIAM L. WURTZ TRUST, SELLER

This property has been in the Wurtz family for many years and is well cared for. For questions or to view the property, please call Mark Uhlik, Broker at 785-325- 2740.

See last week's Grass & Grain for complete details!

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PASTURE LAND AUCTIO

SATURDAY, MARCH 4 — 10:00 AM Blue Rapids Community Center — BLUE RAPIDS, KS

270 ACRES± MARSHALL COUNTY PASTURE

Legal Description: S06, T05, R08E, 6th PM, Southeast 1/4 Less North 1/2 of North 1/2 of the North 1/2 and lots 9 & 14, Less Right of Way & S07, T05, R08E, 6th PM, North 711.25' of Northeast 1/4, Less Road Right of Way.

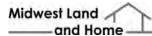
Property Location: From Marysville Take Highway 77 south approximately 11 miles to Highway 9, Take Highway 9 east approx-imately 3.8 miles, turn south on 13th Terrace and travel approximately 3 miles. Property is located on your left. From Blue Rapids Take Highway 77 east/northeast approximately 1 mile to Highway 9 east, go east on Highway 9 approximately 3.8 miles, turn south on 13th Terrace and travel approximately 3 miles. Property is located on your left. From Frankfort Take Highway 9 west approximately 8.5 miles to 13th Terrace, turn south on 13th Terrace and travel approximately 3 miles. Property is located on your left.

For a VIRTUAL TOUR of this property visit www. MidwestLandandHome.com

KEITH & PATTY HOLLE, SELLERS

BROKER'S NOTES: This pasture is perfectly located on the north end of the Flint Hills just 3 mile south of Kansas Highway 9 in southern Marshall County. This is a very clean pasture featuring well managed native grass, ample water and excellent fencing. Immediate possession on closing allows buyer to stock the pasture during the 2017 pasture season. Contact me direct with any questions you may have on this property. Jeff Dankenbring - 785-562-8386.

Terms & Possession: Seller to pay 2016 taxes. Title insurance, escrow and closing costs to be split equally between buyer and seller. Possession upon closing on or before April 15, 2017. Property to be sold as-is, where-is. This is a cash sale and will not be subject to financing, have your financing ar-rangements made prior to Auction. Midwest Land and Home is acting as a Seller's Agent. All information has come from reliable sources; however potential buyers are encouraged to verify all information independently. Mar shall County Abstract & Title will act as title, escrow and closing agent.



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tis Thompson, K-State Research & Extension weed specialist. Dr. Thompson will discuss new corn herbicides and cultural practices to help reduce weed pressure and herbicide resistance. The meeting will start with light refreshments at 9:45 with Dr. Thompson beginning his talk at 10:00 a.m. in the small meeting room of Nemaha County Community Building in Seneca. They'll have you out the door and on to your afternoon chores before 11:30!

Soybean Weed Control will be the focus on Friday, February 24th at the Knights of Columbus Hall in Nortonville. Dr. Dallas

Peterson K-State Research & Extension Weed Specialist will speak from 10:00-11:30 a.m. on new products in soybean weed control, including Xtend sovbeans and management of the new dicamba formulations available. They'll have refreshments at 9:45.

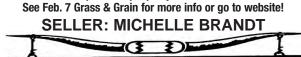
RSVP is not required, but is helpful to make sure they have adequate refreshments and handouts (each participant will receive a copy of the 2017 KSU Chemical Weed Control Guide). Please do so by noon on Tuesday, February 21st to any Meadowlark Extension District Office or via e-mail to dhallaue@ksu.edu.

Place a classified ad GRASS or subscribe online at grassandgrain.com

REAL ESTATE AUC SATURDAY, FEBRUARY 25 - 1:30 PM Held at the Best Western, 3021 West highway 50,

EMPORIA, KS., Flint Hills Room

Location of Land: 3100 Road F, Allen, KS. 7 miles North of Americus on Road F, East side of road. 73.5 acres, Lyon County native grass and CRP or Go back grass. Wildlife habitat at its best! This could be a building site, hunting paradise or put back to agri cultural use for either grazing or farming. To inspect the property call auctioneer!





SATURDAY, FEBRUARY 18 — 10:00 AM Location: 20499 E Road, SOLDIER, KANSAS Directions: From Holton Ks, 12 Miles West On 16 Hwy To E Road

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See last week's Grass & Grain for listings or for PICTURES & LISTING, go to holtonlivestock.com

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Clerk & Cashiers: Cindy Grollmes, Jennifer Ingels & Blake Harris



Pictured are Dan Atkisson, NSP vice chairman, Stockton, Chairman Roberts and Don Bloss, NSP chairman, Pawnee City, Neb.

NSP recognizes Senator Roberts with Congressional Award

National Sorghum Producers awarded Sen. Pat Roberts (R-Kan.) the organization's 2017 Congressional Award in recognition of his long-running work representing the U.S. Sorghum Belt.

"Senator Roberts is a formidable champion for U.S. farmers," said Don Bloss, NSP chairman from Pawnee City, Nebraska. "We appreciate his advocacy, expertise and wit in crafting farm policy that keeps U.S. agriculture competitive in an ever-evolving global marketplace."

Roberts represented the Big First District, the largest sorghum-producing Congressional district in the country, for 16 years before his election to the Senate in 1996. Roberts is an ardent defender of federal crop insurance as well as a promoter of pragmatic agricultural policy.

'Senator Roberts is instrumental in constructing and calibrating practical farm policy," said Tim Lust, NSP CEO. "We look forward to working with him to continue the tradition of a strong safety net for America's farmers."

National Sorghum Producers representatives presented Roberts with the award during the organization's DC Fly-In Jan. 30-Feb. 2, 2017. This year is the second year for the award, which was presented to Rep. Frank Lucas (R-Okla.) in 2016.

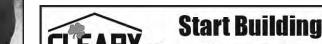


WOODWORKING EQUIPMENT & TOOLS: Shopsmith Brand, Rockler Brand, NIB Items. HOUSEHOLD/MISC. See last week's Grass & Grain for listings & Please visit us online: www.KansasAuctions.net/elston 75+ pictures!!

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U.S. cattle herd up 2 percent

The U.S. Cattle report shows all cattle and calves reported at 93.6 million head, up 2 percent from last year. The following is a breakdown of the report:

Cattle and calves, 93.6 million up 2 percent.

Cows and heifers that have calved, 40.6 million up 3 percent.

Beef cows, 31.2 million up 3 percent.

Dairy cows, 9.35 million up slightly.

Heifers 500 pounds and over, 20.1 million up 1 percent.

Beef replacement heifers, 6.42 million up 1 percent.

Dairy replacement heifers, 4.75 million down 1 percent.

Other heifers, 8.88 million up 1 percent.

Steers 500 pounds and over, 16.4 million up slightly. Bulls 500 pounds and over, 2.23 million up 4 per-

cent. Calves under 500 pounds, 14.4 million up 2 percent.

2016 calf crop, 35.1 mil-

lion up 3 percent from 2015. Cattle on small grains pasture in Kansas, Oklahoma and Texas, 1.80 million down 5 percent.

Cattle and calves on feed for the slaughter market in the U.S. for all feedlots totaled 13.1 million head on Jan. 1, 2017. The inventory is down 1 percent from the Jan. 1, 2016 total of 13.2 million head. Cattle on feed, in feedlots with capacity of 1,000 or more head, accounted for 81.2 percent of the total cattle on feed on Jan. 1, 2017. This is up 1 percent from the previous year. The

AVE

ONLINE

combined total of calves under 500 pounds and other heifers and steers over 500 pounds (outside of feedlots) is 26.6 million head, 2 percent above one year ago.

To view the full report, visit http://tinyurl.com/Cat-tle-2-3-17.



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INVITATION TO BID - NEMAHA COUNTY REAL ESTATE

Grass & Grain, February 14, 2017

The Family of Galen L. Deters is accepting sealed bids on the following Nemaha County real estate:

The North Half of the Southwest Quarter of Section 6, Township 5 South, Range 13 East in Nemaha County, Kansas, containing approximately 80 acres.

You are invited to bid on the tract listed. To view the property please contact Galloway, Wiegers & Brinegar to schedule an appointment.

Bids sheets can be obtained by contacting Galloway, Wiegers & Brinegar or by visiting the website: **sealedbidauction**. net. Bids must be received by 3:00 p.m. Friday, February 24, 2017. Seller reserves the right to accept any bid, reject all bids or invite certain bidders to a subsequent private auction.



GALLOWAY, WIEGERS & BRINEGAR, P.A. ATTORNEYS AT LAW 520 Main Street 1114 Broadway Seneca, KS 66538 P.O. Box 468 785-336-0021 Marysville, KS 66508 jason@gwblaw.net 785-562-2375 gwblaw.net Fax: 785-562-5348







Page 13

REAL ESTATE & PERSONAL AUCTION SATURDAY, FEBRUARY 18 — 9:00 AM Offering for sale at Public Auction, located at 400 Grandview (Army National Guard), NEWTON, KS

REAL ESTATE SELLS - 9:00 A.M. AT ARMORY Legal Description: Beginning 70' North of the SW/Corner of Block 9, N. 70', E. 69', S. 70', W. 69' to P.O.B., Steele's 1st Addition to the City of Newton, KS in 20-23-1E. Located on Old Main.

FURNITURE & HOUSEHOLD ITEMS

Ornate Oak dresser with mirror; Oak buffet with mirror; kitchen cabinet; 2 - Oak wardrobes; 3 pc. bedroom set; metal beds; dressers; Cedar chest; hall tree; ornate cabinet; Oak lawyers bookcases; wash stand; desk; china hutch; camel back trunk; sofa; recliners; end tables; enamel top tables; Maytag washer & dryer; wash tubs on stands; Seth Thomas mantle clock; Gulbransen piano; lamps; kitchen table & chairs; green depression glass; Ruby Red; Carnival; pitcher & basin; enamel; Vornado fans; dolls & buggy; baby buggy; old pictures; advertising; bedding; old stroller; pots & pans; stemware; utensils; salt & peppers; games; books; metal chairs; sprinkle can; shovels; rakes; forks; hand tools; buck saw; scythe; brace & bits; hardware; & more.

CORA PEARL FROELICH, SELLER TERMS: Cash day of sale. Statements made day of sale take precedence

VAN SCHMIDT • Auctioneer/Real Estate 7833 N. Spencer Road, Newton, KS 67114 620-367-3800 or 620-345-6879 Schmidt Clerks & Cashiers www.hillsborofreepress.com Farmers National Company (402) 496-3276 Lunch provided by: K & B Catering Celebrating out DIS Monday, March 6, 2017 6:30 pm • Farmers & Ranchers • Salina, KS Selling 60 Registered Angus 44 Yearling Bulls • 6 18-Month-Old Bulls • 10 Open Heifers

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Soy growers, Soyfoods Association defend soymilk, oppose Dairy Pride Act

In a recent letter to milk. Senate Health, Education, Labor and Pensions (HELP) Committee members, the American Sovbean Association (ASA) and the Soyfoods Association of North America (SANA) objected to draft legislation that would restrict the marketing of soy-

S. 130, referred to as the Dairy Pride Act, would prohibit the term "milk" from being used with sovmilk and soymilk-based products, under the premise that the term "milk" is misleading to consumers.

"This legislation is un-

SATURDAY, FEBRUARY 18 — 10:00 AM

SALINA, KANSAS

necessary as no confusion in the market exists," argued ASA president Ron Moore and SANA President Wendy Behr in the letter. noting that the term "soymilk" has been in commercial use since 1947. "Consumers of soymilk clearly understand that the product

is derived from soybeans rather than bovine milk, and a large percentage consume it for just that reason due to dietary choices or restrictions."

Rebutting the contention of marketplace confusion. the letter cited a 2006 SANA study that found that out of more than 800 respondents, none believed cow's milk to be an ingredient in soymilk. Moore and Behr also highlighted the growth of the soyfoods market, which created more than \$4.5 billion

in value in 2013.

In the letter, Moore and Behr underscored the dual nature of the soybean industry as both a supplier of feed for dairy cows, as well as a supplier of soybeans and sovbean meal to sovfoods producers. "As farmers, many ASA members also raise dairy cows; all soybean farmers are feed providers to the dairy industry. More than two million metric tons of soybean meal feed American dairy cows each year. We under-



stand the crisis in the dairy market and have publicly stated our support for revision of dairy policies in the next farm bill," they wrote. "At the same time, soyfoods and in particular the soymilk market is not only a growing one for our industry, it is a key point of connection between farmers and consumers."

The letter follows a separate letter to the Food and Drug Administration (FDA) sent by SANA, in which the organization concluded that use of the name "soymilk" complies with FDA regulations on common or usual names, and noted that soymilk has been included in USDA materials dating back to 1963.

Auction will be held in Kenwood Hall at the Saline Co. Expo 900 Greeley **GUNS, HUNTING & FISHING** Guns sells at 10:00 a.m. 1. Winchester 22 long model 74 w/scope; 2. Winchester 30/30 lever action, hex barrel, Canadian Centennial 1867-1967; 3. Benelli made in Italy 20 ga., Montefeltro w/poly choke & choke tubes, original hard box; 4. Czech Republic 22 Hornet bolt w/9x40 Simmons scope; 5. Benelli made in Italy gold engraved 12 ga 76MM Duca Montefeltro w/poly choke & choke tubes, original hard box; 6. Remington 22 model 34 bolt; 7. Browning Belgium over under 12 ga, vent rib, engraved; 8. Remington 3 shot 20 ga Sportsman 48 w/poly choke; 9. Rossi model 52SA 22 pump SLLR; 10. Marlin 22 model 60 long rifle; Pump Factor 760 pellet gun; assortment of ammo inc.: 12 & 20 ga shot gun shells; 22 & 30-30 bullets; oak 6 gun cabinet; telescope;

game caller; gun cases; camp

lights; hunting vests; assort-

ment hunting items; 10 fishing poles; hard case pole carriers; live traps; 10 pt. horns; older full boxes: (Peters 12 ga, Remington 12 ga Animal box, Red Head 12 & 410, Winchester 410 skeet load, Western Super 28 ga, Winchester Ranger target load; rifle Remington 270 Winchester, Federal 25-06 & 270, Hornady 25-06, 25 cal, Lake City Arsenal 30 M2 ball, Interarms 30; Bushnell & Tasco scope's; Bishop butt plate

TOOLS, HOUSEHOLD & DOG EQUIPMENT

DEK 6500EL generator electric start (used 1 time); Troy Bilt Pony tiller; wheel barrow; fertilizer spreader; 12 volt sprayer; new Delta 4" belt, 6" disc sander; Tradesman 10" table saw bench grinder on stand: Homelite XL & Denmark chain saws; wooden tool chest; wooden Craftsman planes; 4" vise; rolling tool box; assortment hand tools inc.: end wrenches,

sockets, screw drivers, hammers; aluminum extension & step ladders; diamond plate pickup tool box; shop vac; MP Buddy propane heater; cutoff saw; drills; saws; floor jacks; 2 wheel dolly; grease guns; log chains; tow rope; 12 6' x 10' wire dog panels; Remington dog kennels; 3 insulated Dog Palace's; plastic tubs; heated dog water buck-ets; sun shade for dog kennel; saws; gold pick; shovels; forks; rakes; extension cords; Frigidaire side by side refrigerator w/water: Sears 253 upright freezer: Frigidaire electric stove; Whirlpool side by side refrigerator; Pro Form Crosswalk 405E treadmill; German cuckoo clock; fans; HP copier; kitchen appliances; 2 sets golf clubs: CB radio: CD's: assortment screws & other; mop bucket; plastic chicken crate; yard sprinklers; trash cans; assortment of other items.

THURSDAY, FEBRUARY 23, 2017 — 5:00 PM POTTORF HALL, CICO PARK - MANHATTAN, KANSAS

King bedroom suite with bed. chest-of-drawers. dresser & 2 night stands (very nice); inlay dining table; credenza entertainment center; King pillow top springs & mattress; GE automatic washer & dryer; carved claw foot coffee & end tables; marble top table; bedroom setting bench; kitchen table & chairs; 2pc sectional; brown leather couch; leather loveseat; maroon leather arm chair; patio furniture-4 chairs, 2 lounges, stand table; nice gas BBQ grill; 4 black leather dining chairs; sofa & end tables; TV stand; 2 dressers; chest; sofa & living room chairs; Queen and single beds: sofa: leather and upholstery arm chair; night stand; baby crib. Dell computer & printer; Kenwood stereo & speakers; 60

gallon wood beer barrel; luggage; weights & weight equipment; sub woofers and speakers; exhaust pipes; Weider bar stool; tires & rims; motorcycle tires & parts; pioneer eg; Weider weight machine; Bose subwoofer; JBL speakers; as-sortment of boxes packed in storage; glassware; collectibles; household.

NOTE: Quality Clean Auction!

TODD FARRAR ESTATE • BAILEY MOVING & STORAGE GANNON REAL ESTATE & AUCTIONS VERN GANNON, AUCTIONEER 785-770-0066 • MANHATTAN, KANSAS • 785-539-2316 www.gannonauctions.com

Check our web site for pictures at www.thummelauction.com. **RICK DONABAUER ESTATE**

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



Antique wooden ice box; stepback kitchen cabinet; Armoire 2-door wardrobe; Lakeside pump organ; antique Oak bed; Secretary bookcase; fancy iron bed; Oak rocker; spindle pressed back chairs; sofa sleeper; glass top 7-drawer desk; TV's; dressers; antique flat top trunk with tray; computer table; card table & chairs; round maple table with leaf; various chairs; end table; very nice treadmill; antique doors; 'Dog Ear' fence boards; 1950's 3pc child's activity table with seat

Copper boiler; Coke tray; wooden butter mold; stereoscope & cards; kerosene lamps & lanterns: collection of Cupid Awake/Asleep pictures; linen; English tea sets; salt dips; washboard; ice bucket & tongs; sad irons; clocks; 3, 4 & 5 gallon crocks; crock jugs; chamber pot; Longaberger basket & pottery; marbles; paintings & prints; glass basket; Vintage women's hats; bootjack; Cowboy cups; cigar box; Western hard back books; ink bottles & pen holders; Collector plates-Elvis, Rockwell etc; Bakelite waterfall clock; figurines; bookshelf; Wm Rogers flatware; old tube radios; Collector knives; jewelry; camera & tripod; kitchen utensils; Post cards; hair clipper; woodpeck-er toothpick holder; chalk ship Aunt Jemima salt shaker, hotpads & holder; Chenille bedspread; wicker shelf printer's tray; corner shelf; 45-78 & 33 records; sports cards; binoculars; AMMO (22 LR, 30-06 & 44 SPL); Chapman Dairy Co. (KCMO) small milk can; 1857 US Capital, The Gleaners, Lone Wolf, Over the Garden Wall, 'Lost', boy & dog fishing framed prints; full box WWI ration tokens; 1950's Nudie Girl glasses; goblets; ice cream dishes; toys-Tonka dump truck,

flute, blocks, action dog, Santa doll, Old Maid cards; metal oil & gas cans; old hubcaps; new old stock auto parts; license plate attachment-Ks Farm Bureau, Big Dam Foolishness (Tuttle Creek Dam); Hoppy's qt milk bottle; Die cast cars, trucks; banks; 1952 GMC Daisy BB gun van: Diorama with mounted puzzle back ground; NASCAR collectibles-cereal boxes, driver cards, race programs, posters, VHS tapes & other items; NA-SCAR monopoly; NASCAR & K-State trading cards; Milton-vale & Bunker Hill, Ks advertising; 17 belt buckles-K-State, State Fair, Agriculture & Farm Bureau; stamps & post cards; KS Centennial glasses; Eisenhower bank; Puss & Boots and Elephant Shawnee creamers: Nesmith Hummingbird seed bird in glass case; Collector plates; Ŏld Life magazines; Thomas repro radio; hundreds McDonalds toys: Steins-Indians & Race Cars; Dan Davey French Quarter illustrations; wash bowl & pitcher; hatpins & holder; nesting Russian dolls; **10 Hummel figurines;** child's ABC plate; kraut cutter; old tins; figurines; Black Memorabilia; battery powered figurines-Charley Weaver bartender, crap shooter, down the hatch. Balloon Blower Bear. bartender, Scotch drunk, Big John chimp Chief, drunk in barrel, drink dispenser, girl drink shaker; Toys including Daisy BB gun; tin doll house with furniture; wooden semi; Little Darling dolls; Newell ping-pong ball game; typewriter; tin adding machine; Tiny Town Visiting Nurse set; push toy with bells; View Master with reels; dolls; child's pool table; Slinky; dominoes; broom set; tea set; marble football game; baking pans; clothesline & pins; board games; Barbie doll clothes patterns; books; other miscella-

neous toys; Post Office box doors; wood stocking stretcher; horseshoes; RR spikes; enamel ware; insulators.

www.www.www

POLITICAL COLLECTION: Campaign buttons & cards; famed photos & prints; yard signs; Life magazines; DVD & VHS tapes; books; hats; plush tovs & beanies.

press; Craftsman miter Drill Ryobi impact drill; floor saw: Craftsman clamp/work jack; table; Workmate shop box; Craftsman buffer/polisher: belt sander; Weller & Ungar solder stations; H.P. digitizing oscilloscope; dielectric strength tester; trash cans; step ladders; saw horses; clamps; chains; knee pads; grease gun; 3 cabinets of hardware; spot light; leaf blower/vacuum; weedeater; trimmer/edger; B&D edger; sprayer; shovels, rake, hoes; tree shear & saw; hose & sprinkler; solar lights; Tiki torches; spray paint; tarp; anti-freeze; fishing poles; cooler; pet gates; camping bed/bag; gas table top heater; Deck cleaner & finishes. Dyson vacuum; whole house & other humidifiers; portable ice maker; GPS Garmin; Australian sheepskin rug; various Holiday décor; projector/film; selection of New Home Interior décor (new); complete set of WWII encyclopedias; weather radio; many CD's, DVD's & VHS's; VHS camera & accessories; Sport-cat racetrack radio; cookbooks; picture frames; food dehydrator; dehumidifier; K-State stadium seats; folding step stool: wine rack: Bingo set; massage cushion; foot spa; Mason jar mugs; craft woods; latch rug kit; needlepoint in frames; deep fat fryer; photo albums; vases & baskets; racing & sports mugs; racing scanner; Afghan; candles; Tupperware; sewing basket; stainless bowls; trays; household; lots more!



NOTE: Owners moving & downsizing.

BILL & JANICE FULLER & OTHERS GANNON REAL ESTATE & AUCTIONS VERN GANNON, AUCTIONEER 785-770-0066 • MANHATTAN, KANSAS • 785-539-2316 www.gannonauctions.com

ANTIQUE AUCTION SUNDAY, FEBRUARY 19 — 10:00 AM

BR780, JD 385 PICKUPS: '01 Ford F350 SD XLT bale bed, '99 Ford F250, 866.608.9283

Auction will be held in Kenwood Hall at the Saline Co. Expo 900 Greeley

SALINA, KANSAS

COLLECTABLES & GUNS Jennings & Mills slot machines: trade stimulator; rare Cope's tobacco store display cabinet w/locking drawers; pharmacy store cabinet; carousel horse; Advertising: NuGrape clock, Pepsi thermometer, Old Crow Whiskey, Wildroot barber sign, Farm Threshers, other; tractor manuals & hundreds of vintage automobile brochures; Towle sterling flatware set; sterling teapot w/creamer & sugar; two 14k gold ladies watches; assortment jewelry inc. rings, bracelets & brooches; Indian pottery, rugs & jewelry; Indian sterling & turquoise inlay concho belt; 2 Navajo brooches; 11 vintage Navajo & Hopi bracelets; 52 vintage Navajo & Hopi rings; 19th century sewing collectables; spinning wheel, needle cases, clamps, other; porcelain; pottery; art

glass; Hummels inc. dealer plaque; Mission oak salesman sample grandfather clock; several toys inc.: steam engines, promo cars, other; doctors bag; Guns inc.: 22 Winchester model 67; Heckler & Kock Benelli 121M 12 ga; Marlin 1894 micro groove lever action 357; Junior Colt 22 short double barrel.

ART

Birger Sandzen (block print "Brook w/Cottonwood Trees, Sepa wood cut "The Bent Cedar," "Poplars", block print "Poplars At Moonrise", 1911 Conte pencil study, large litho "Cedars Sentinel Rock", small block print attributed to Sandzen; dry point "Toward Evening", block print "Colorado Stream", other prints); Carl Peterson water color; Oscar Gunnerson oil painting; Signe Larson litho; GN Malm water-

color; Alba Malm water color; Norman Malm pencil sketch; Charles Rogers litho "Summer Foliage"; Della Jean Kennedy litho; V. Chaidvarg 1877 oil painting; Don Weddle acrylic; William Dickerson prints; Floyd Foltz prints; David Bernard prints; Heinrich Reinhart oil German POW interred at POW camp Cawker City, Ks; Dale Oliver Sandzen student watercolor print WWII Gilder Corps artist & Walt Disney studio illustrator; Chandler color print; John Bashor large block print on Japanese print; H Harvey Clark dry point etching; Louis Haffermehl pastel & mixed media feather poem series; Gertrude Freyman ink drawing; Dixon pen & ink study; 2 wood block suite Ted Davis "French Playing Cards"; 4 panel block print Zona Wheeler; Robert Spencer color print.

Note: This auction has many unique items. Check our web site for pictures at www.thummelauction.com.

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

Auction Sales Scheduled

Ben & Shirley Tibbits. Auc-

chine, advertising, collect-ibles, art at Salina for 2 indi-

viduals. Auctioneers: Thum-

mel Real Estate & Auction,

February 20 — 191 acres m/l Marion County land in 3 tracts held_at Hillsboro

for Rubena Esther Bartel

Estate. Auctioneers: Leppke

Realty & Auction. February 22 — Trac-

tors, harvesting equipment,

trucks, trailers, pickup, farm equipment, other farm

items, camper trailer near

Deerfield for Richard & Connie Braun. Auctioneers:

Berning Auction. February 23 — Furniture,

computer, stereo, weight

equipment, glassware, col-

lectibles, household at Man-hattan for Todd Farrar Es-

tate, Bailey Moving & Stor-

February 24 – Farm ma-chinery West of Marysville for Mike & Susie Wilson. Auctioneers: Raymond Bott

Realty & Auction. February 24 — Bull sale

at Quinter for Jamison Her-

ment auction at Salina. Auc-

tioneers: Wilson Realty &

Auction Service.

February 25 — Consign-

February 25 — Antiques.

Simpsons,

Real Estate & Auctions.

Auctioneers: Gannon

LLC

age.

efords.

February 19 - Slot ma-

tioneers: Elston Auctions.

Online Estate auction closes February 21) — an-tiques, collectibles, Aladdin lamps, Coleman lamps, Jew-ell Tea collection, Depres-sion glass, toys, tools, anvil, trailer & more for Estate of Mr. & Mrs. Burl Slawson. At www.dlwebb.com or www. lindsayauctions.com. Auc-tioneers: Dave Webb, Webb & Associates Auctions & Appraisals and Lindsay Auc-

tion Service. Online Ag Equipment auction — bidding starts to close February 22) — trac-tors, combine, balers, pickups & more ag equipment online at www.purplewave. com. Auctioneers: Purple Wave Auction. February 16 — Farm ma-

chinery consignments inc. tractors, hay & livestock equip., antique machin-ery, construction, trucks, vehicles & trailers, grain handling & harvest equip., planting, cultivating & spraying, tillage & misc. North of Tekamah, Nebraska. Auctioneers: Lee Valley, Inc.

February 16 — 253 acres m/l Douglas County land offered in 3 tracts held at Baldwin City. Auctioneers: Heck Land Co. and United Country Real Estate Heart of America Real Estate & Auction.

February 17 — 160 acres m/l Pawnee County, Nebraska land held at Tecumseh, Nebraska for Leo & Pauline Rinne Estate. Auctioneers: Speckmann Realty & Auction Service. Inc.

February 18 — Furniture, appliances, glassware, collectibles, tools & misc. at Junction City for Exchange Bank, Trustee. Auctioneers: Brown Real Estate & Auc-

tion Service, LLC February 18 — Antiques, furniture, treadmill, collect-ibles, household, Hummel figurines, political collec-tion, tools, Dyson vacuum at Rossville for Bill & Janice Fuller and others. Auctioneers: Gannon Real Estate & Auctions.

February 18 - Real estate, furniture & household items at Newton for Cora Pearl Froelich. Auction-eers: Van Schmidt, Auctioneer/Real Estate.

February 18 — Tractors, skid loader, pickups, trailers, hay & hay equipment, machinery, livestock equipment, shop tools & equipment, lawn & garden & misc., household at Soldier for W. Harlan & Sandy Barnett. Auctioneers: Harris Auction Service.

February 18 — Furniture, household, antiques, collectibles, tools & outdoor items at Abilene for Edith Phillips Estate. Auction-eers: Chamberlin Auction Service.

February 18 — Collect-ibles: tin & cast iron toys & tractors, churns, figurine collections, dolls, coins & more at McPherson for Gene Meek & Gladys Meek Estate. Auctioneers: Oswalt Auc-

collectibles, Simpsons, Beatles & McDonald's memorabilia, glassware, antique furniture, lawn & garden,

guns at Abilene. Auction-eers: Ron Shivers Realty & Auction Co. February 25 — Antiques & primitives at Washington for the Patricia Harris Estate. Auctioneers: Raymond

Bott Realty & Auction. February 25 — Tractor, car, equipment, collectibles, tools & misc. at Lawrence for John Craft. Auctioneers: Elston Auctions.

February 25 — 73.5 acres m/l Lyon County native grass & CRP land held at Emporia for Michelle Brandt. Auc-tioneers: Hancock Auction

& Real Estate. February 25 — Equip-ment at Lebo for property of Lester & Eileen Reimer. Auctioneers: Griffin Real Estate & Auction Service, LC.

February 25 — Tractors, skid steer & attachments, forklift, harvest, planting & seeding equipment, sprayer, anhydrous & fertilizer equipment, trucks, trailers, shop tools & equipment, UTV & lawn mowers & more for Brunker Farm, Inc., the late Elmer Ray Brunker, Jr. Auctioneers: Wheeler Auc-tions & Real Estate.

February 25 — Nemaha County land sold in 2 tracts held at Seneca for Esther M. Holthaus Trust. Auctioneers: Seneca Realty, Dale Wilhelm & Mike Kuckelman. February 25 — Coins

at Emporia. Auctioneers: Swift-N-Sure Auctions. February 25 — Angus

bulls at Clarksdale, Missouri for Conley Angus Bull Sale. February 25 & 26 (Tag Sale) — 2 large sets of china, collectible & cut glass col-Grandfather clock & more at Abilene for Mrs. Ruth Deiter. Annette's Liquidation Service. February 28 — 80 acres m/l cropland Jackson County, KS held at Holton for David K. Hug Trust. Auc-tioneers: Harris Real Estate & Auction. February 28 — 410 acres Chase County pasture sold in 2 tracts held at Emporia. Auctioneers: Swift-N-Sure Auction & Real Estate. February 28 — "Brand That Works" Bull & Female sale at Manhattan for Mill "Brand Creek Ranch. March 1 — Farm & industrial equipment consignments at Beattie. Auctioneers: Rottinghaus Auction.

March 3 & 4 — Barn find cars, tractors, early Blacksmith, many unique items Southwest Agenda for Howard Hammond Estate. Auc-tioneers: Thummel Real Estate & Auction, LLC. March 4 — Welder, ATV,

JD mower, equipment, tools, firearms, hunting, fishing, collectibles, household & misc. at Lawrence for Mrs. (Stoney) Karen Strickland. Auctioneers: Elston Auctions.

March 4 — Combine & headers, trucks & trailers, farm related items, tractors, sprayer, planting & tillage, hay equipment near Benton for Potter Farms, R&J Implement Co., Inc. Auctioneers: Van Schmidt.

Tractors, March 4 combines, machinery, car, equipment, shop & misc., household & collectibles at Marion for Jack & Carolyn "Sue" Williams Estate. Auctioneers: Leppke Realty & Auction.

March 4 — 270 acres m/l Marshall County pastureland held at Blue Rapids for Keith & Patty Holle. Auctioneers: Midwest Land & Home, Jeff Dankenbring and Mark Uhlik.

March 4 — Bull sale, Cowboy auction at Pawnee

Rock for Loving Farms. March 5 — Real estate (4BR, 2BA home), household, furniture, collectibles, lawn tools, tools, JD push mower & much more at Manhattan for Estate of the late Merle & Marilee Shogren. Auctioneers: Ruckert Real-

ty & Auction. March 5 — Collectibles, tools, primitives, plumbing, electrical & more more at Osage City for Local Sellers. Auctioneers: Wischropp Auctions.

March 5 - 80 pistols, 20+ long guns at Salina. Auction-Thummel Real Estate eers: & Auction, LLC. March 5 — Bull sale at

Wamego for Gold Bullion.

March 6 — 29th annual Lyons Ranch Superior Ge-

netics bull sale at Manhattan. March 9 — 16th annual

Bull Sale at Manhattan for BJ Angus. March 11 — Antiques

at Abilene for contents of Antique store. Auctioneers: Wilson Realty & Auction Service. March 11 — Late model,

quality JD equipment, tractors, combine, tillage, plant-ing, trucks & more at DeSoto for Louis L. & Shirley Penner. Auctioneers: Wischropp Auctions.

March 11 — Nice antiques & household goods at McFarland for Elvera Gehrt Estate. Auctioneers: Kretz & Bloom Auction Service.

March 11 - Antique furniture, glassware, collect-ibles, old bottle collection & more at Abilene. Auctioneers: Ron Shivers Realty & Auction Co. March 11 — Real estate

(3BR, 2BA house), vehicles, glassware, household, fur-niture, tools, trailer, weld-er, guns & more at Riley for Justine & the late Dale Flohr. Auctioneers: Ruckert

Realty & Auction. March 11 — Firearms, ammo, holsters, knives, collector toys & more at Lawrence for Mrs. Clark "Mary Ann" Platt. Auctioneers: Elston Auctions.

March 11 — Annual Con-cordia Optimist Club consignment auction at Concordia.

March 11 - Bull sale at Holton for Barnett Angus Ranch.

March 15 — Bull sale at Quenemo for Woodbury Farms. March 15 — 6th annual

production Bull Sale held at Overbrook for Woodbury

Farms. March 16 — Bull sale at Esbon for Benoit Angus

Ranch. March 18 — Bull sale at Zenda for Molitor Angus

Farm. March 18 — Retirement machinery auction with complete line of JD equipment inc. tractors, combine. heads, planing & tillage, semi truck, trailers, sprayer & more held East of Lawrence for Mr. & Mrs. Mark Milleret. Auctioneers: Ash

Realty & Auctions, LLC. March 19 — Furniture, collectibles & unique items at Salina. Auctioneers:

FARM AUCTION SATURDAY. FEBRUARY 25 - 10:00 AM 1551 North 1550 Road — Lawrence, KS

From 11th Haskell East 1 Mile to Auction! Watch For Signs!! John has sold his Farm and will sell the following to the highest bidder!

TRACTOR, CAR, EQUIPMENT

Ford 640 Tractor 3 pt., 4 sp., 12v, gas, good rubber/rear weights; 1989 Toyota Corolla DX Car auto, 4 door; Massey Ferguson #12 twin square baler; Ford 501 14-339 pto 7 ft. sickle mower; 3 pt. New Idea 49M 9 ft. 5 bar hay rake; 3 pt. Ferguson DEO20 8 ft. 6 bar hay rake; Ferguson 3 pt. 2-14 bottom plow; 6 ft. 3 pt. disc; Ford 5 ft. 3 pt. rotary mower; 3 pt. 15 ft. folding drag harrow; 3 pt. bale carrier & bale spike; 3 pt. dirt slip; 3 pt. John Deere 2-Row List-er Planter; New Idea small ground driven manure spreader; AC spring tooth section; rotary-hoe section; Craftsman GT3000 & GT hydrostatic Riding Lawn Tractors; Cub Cadet SPC621 rear wheel drive push mower; Sentry & Craftsman front-tine tillers; Lawn Tractor front blade & box blade/scraper: front loader bale spike slide in stock racks(enclosed w/tin); Shopmade: 61/2x14 flatbed trailer, 5x15 flatbed trailer (both new wood floors/side boards, 5x12 tandem axle & 6x10 single axle trailers (no floors); 3 - Small Metal Covered/Panel sheds to be moved 8x8, 10 x10, 10x12.

COLLECTIBLES, TOOLS, MISC. OHIO #11 "The Silver" #302 Hand Ensilage/Feed Cutter Salem,

Grass & Grain, February 14, 2017

Thummel Real Estate & Auction, LLC. March 20 — 720 m/l acres Ellsworth, Lincoln & Rus-

sell counties cropland, pas-ture, grassland & wildlife habitat sold in 5 tracts held at Wilson for Leonard E. Wilson, Auctioneers: Victor Brothers Auction & Realty,

Inc. March 20 — Tractors, combines, trucks, farm machinery & more held near Beloit. Auctioneers: Gerald Zimmer Auction & Real Estate.

March 21 — Bull sale at Cottonwood Falls for Hinkson Angus.

March 25 — Many unique collectibles at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

March 25 - Farm machinery, equipment & misc. at Durham for Annual Consignment sale in conjunc-tion with G&R Implement. Auctioneers: Leppke Realty

& Auction. March 25 — 4WD JD tractors, JD combines, semi trucks, tandem axle trucks, feeding & tillage equipment at Minneapolis for Ron & Lou Weis. Auctioneers: Bacon Auction Service.

March 25 — 160 acres m/l land: pasture, hunting, de-yelopment land & collectible equipment at Alma for Larry Mogge. Auctioneers: Murray Auction & Realty. March 26 — Toy collec-tion & collectibles at Salina.

Auctioneers: Thummel Real Estate & Auction, LLC.

March 27 — "The Best of Both Worlds" bull & Quarter Horse sale at Dwight for Oleen Brothers.

March 28 — Glass, guns, tractors, primitives, an-tiques, trucks East of Reading for property of the late Roy D. Mochamer. Auctioneers: Wischropp Auctions. March 28 — GeneTrust at

Suhn Cattle Co. Bull Sale at Eureka.

April 1 — Farm tractors, front end loaders, farm trucks, dairy equipment, livestock equipment, tillage & irrigation equipment, shop tools & power equipment at Mentor for Kurtiss Forsberg Estate. Auction-eers: Bacon Auction Company.

Auctioneers: Cline Realty & Auction, LLC. April 1 — Antiques, collectibles at Beatrice, Ne-braska for Mary Lou Rick-ter. Auctioneers: Thummel Real Estate & Auction, LLC.

ery estate auction at Blue Rapids for Ivan Hula Estate.

April 8 — Complete diesel shop tools & equip-ment, complete line of MAC tools, welders, diesel truck A-frames, diesel truck parts, manuals, fluids, some an-tique tractors & parts, JD crawler & more held North of Abilene for Kenneth Fager Trust. Auctioneers: Reynolds Auction Service.

April 8 – 2 acres m/l with S0'x80' diesel shop (on Hwy K15 just North of Abilene) held North of Abilene for Kenneth Fager Trust. Auctioneers: Reynolds Real Estate & Auction. April 8 — 200+ motorcy-

cles & parts at Burr Oak for Doug Frasier. Auction-eers: Thummel Real Estate & Auction, LLC. April 10 — Farm items,

7630 JD tractor, 9500 JD combine, trucks, machinery at Denmark for Stan & Con-nie Crawford. Auctioneers: Thummel Real Estate & Auction, LLC. April 15 — Huge Black-

smith (anvils, blocks, forges, blowers, etc., antique & new metal cutting & grinding equipment) auction at Val-

ley Center. April 22 — 165 guns at Salina. Auctioneers: Thummel

Real Estate & Auction, LLC. April 29 — Trucks, col-lector car, tools East 24-81 Junction for George Larson Estate. Auctioneers: Thum-mel Real Estate & Auction, LLC.

Mav 27 — 150 crock collectibles at Salina for individual collection. Auctioneers: Thummel Real Estate

& Auction, LLC. May 28 — Halloween, toys, collectibles at Salina for individual collection. Auctioneers: Thummel Real Estate & Auction, LLC.

May 29 — Country store items & collectibles at Salina for individual collection. Auctioneers: Thummel Real Estate & Auction, LLC.



Directions: From Marion, go 5 miles W. on 190th (from Hillsboro 5 miles E.), then go 4 miles S. on Nighthawk, then 3/4 mile W. on 150th. From Peabody, go 8 miles N. on Nighthawk, then 3/4 mile W. on 150th. Note: We will begin at 10:00am on the house hold items, followed by shop items. Machinery will sell early afternoon.

TRACTORS, COMBINES, MACHINERY:

- 1994 John Deere 7400 MFWD, 3pt, PTO, 2Hyd, 7070 hrs, SN 01114, with JD 740 loader, joystick control, 7' bucket and Grapple
- 1987 John Deere 4450 Quad range, 3pt, PTO, 3Hyd, shows
- 4096hrs, 480/80R axle duals, SN 2681
- Ford 5000, Gas, "High Profile", 3pt. PTO
- Ford 8N, 3pt. PTO with 3pt. brush hog
- 1982 John Deere 6620, hydro, rear wheel assist, with 220 header, chopper, 2655hrs, SN 50329
- JD 643 corn head
 JD 653A row head
 JD 630 20' Disk, 9" spacing
 JD 960 28' Field Cultivator, Harrow Levelers

- JD 714 12' 13 Shank Disk Chisel
- Great Plains Full Press 30, 30' Double Disk Drill, 8" spacing
- JD 7000 6 Row Planter
- JD 3430 Swather, Diesel engine, 16' hdr.
- JD 530 Round Baler, Twine Tie Panorama 10 Wheel V-Rake
- (3) John Deere Chuck Wagons, 1 is parts
 Gehl 95 Grinder Mixer
- JD 145 5-16 Semi-mnt. Plow Case 3 Bottom pull Type Plow
- JD front mnt. cultivator Gehl Hi-Throw Silage Blower
- JD 3pt. 9' Blade 6"x38' PTO Grain Auger 4 Wheel Hay Wagon

tion Service. February 18 — Vehicles, skid steer loader, log splitter & trailers, tools & misc., household at Belleville for Larry Beeson Estate. Auctioneers: Novak Bros. & Gieber.

February 18 — Guns, hunting & fishing, tools, household & dog equipment at Salina for Donabauer Estate. Auctioneers: Thummel

Real Estate & Auction, LLC. February 18 — 645.3 acres m/l Washington County land held at Morrowville for Heirs of William L. Wurtz Trust. Auctioneers: Midwest Land & Home, Mark Uhlik & Jeff Dankenbring. February 18 — 147 acres

m/l Pottawatomie Coun-ty cropland, native grass, creek & timber held at Westmoreland. Auctioneers: Robert Chew, real estate agent; United Country/Gate-

way Realty & Auction. February 18 — 9th annu-al Bull & Heifer sale at Effingham for Taliaferro Angus Farms and T Bar T Angus Ranch.

February 18 — Bull sale at Emporia for Badger Creek.

February 19 — Truck, juke box, stairlift, wood-working equipment & tools, household & misc. at Lawrence for Living Estate of March 1 - 27th annu-al production Bull Sale at Agra for Ferguson Angus. March 2 — Bull sale at

Courtland for Jensen Brothers. March 3 — Tractors, doz-

ers, vehicle, vehicle parts, grain trucks, equipment, more at Leon for Henn Fam-ily Farms, LLC. Auction-eers: Sundgren Realty, Inc.

890 (RARE Museum Item!!); #4 Mill; McCormick Deering Cream Separator; David Bradley pump jack; Horse Drawn: John Deere two row planter, IH cultivator IH dump rake, dirt slips, John Deere #463 walking plow, several walking cultivators & plows of all styles; steel wheels; Grist Wheat Mill hand grinder; wooden porch posts; several metal ammo boxes: Montgomery Ward Leather Large Pony set of Harness; col lars; hames; misc. tack; metal tack room feed bin/box; Industrial Grizzly hvy. duty 3 hp. table saw w/router extension wing table Ryobi Rapid Set 12 in. planer; wood lathe; 12 sp. Guardian hvy. duty drill press; oxy-propane cutting torch set w/bottles: 2 ton engine stand/cherry picker(NEW); Makita chop-saw; ½ in. Freud router; Delta Miter-Saw; pneumatic nail guns; DeWalt angle grinder; circular saws; 3/4 drive socket set; power & hand tools; electric/ plumbing/hardware; nuts/bolts; Werner scaffolding planks; large amount corrugated metal barn siding various lengths: I-Beams angle iron/channel iron/square tubing/channel strut; pipe; stain less steel tanks; wind generator w/extra blades; Bolens hydrostatic gear; 3 hp. trash pump; horizontal shaft engines(Honda). old Wisconsin engine; diesel 20 hp. 3 cylinder engine(Kubota?). small implement axles/tires/parts; hydraulic cylinders; 5 handyman jacks; several hydraulic jacks; 200+ steel fence posts; com bination livestock panels; tractor chicken pen; 20+ galvanize 15ft. hoop house hoops: produce scales: food grade plastic barrels 100+ landscape timbers; large pile RED Rock; patio blocks; lime bricks; post jacks; concrete wire mesh rolls; pipe rack; 17 ft. Cole man canoe; Giant 12 sp. bike; round dining table; gaming table Vintage Cherry Bedroom set (full bed/chest/dresser); bookcase couch; wooden folding chairs; box lots; **NUMEROUS ITEMS TOO** MANY TO MENTION!

SELLER: JOHN CRAFT Auction Note: John worked as a contractor & grew market vegetables using Haflinger horses, so there will be a wide variety of items for everyone & many items unlisted! **Concessions & Loader Tractor**

AUCTIONEERS: ELSTON AUCTIONS (785-594-0505) (785-218-7851) "Serving Your Auction Needs Since 1994" Please visit us online: www.KansasAuctions.net/elston for pictures!!

9 3pt. Bale Fork • 5ft.-3pt.Box Blade CAR, TRUCKS, TRAILER: '01 Ford Mercury Crown Victoria Lx 4 Door 174K miles • '97 Ford F250 XLT 4x4, Automatic 300K miles • '75 Ford F750 5+2spd. 16' Steal B&H • '74 Ford F600 4+2spd. 16' B&H • '63 Ford 2 Ton Truck 4+2 spd. 15' Steal B&H '63 Chevy 50 4spd. 13' B&H • '90 Ford F250 4x4 4spd. V-8 • 2011Donahue 7'x20' GN Stock Trailer 6'x16' Bumper Hitch Livestock Trailer 2 Wheel Pickup Bed Trailer

LIVESTOCK EQUIPMENT, SHOP, MISC:

2 ring bulk bin w/ 6"Auger; (2) 3 ring bulk bins; Squeeze Chute w, Self Catching Head Gate; Dayton 2500 Watt PTO generator; (2) Pickup Fuel Tanks w/12 V. Pump; (3) 300 gal. fuel barrels & stand Homemade PTO Buzz Saw; 10', 14' & 16' Cattle gates; 10' & 12 Portable Panels; Wire Cattle & Hog panels; Round bale feeders T-Posts & elect. posts & wire; JD Lx176 Riding Mower; Stihl Chair Saw; Lincoln 180amp Welder; Acetylene torch set; Portable air compressor; Chop Saw; Bench Grinder; Floor & bottle jacks; Bench Vise; Stihl Gas Weeder; Space Heater; Battery charger, booster; 12v. Grease Gun; Chicago Drill Press; Hyd. Press; Elec tric Drills; Power Saw; Air Impacts; 3/4 Socket Set; Misc. sockets & socket sets; Misc. Hand Tools/Wrenches; Gear Pullers; Garden Tools; Rolling Tool Chest; Sev. Aluminum Ladders; Misc. Shop Supplies/Oils/Parts; Assorted Used Lumber; Wooven Wire; Used Tires; Salvage Iron Pile; 36ft. Auger; Seed wheat Auger. HOUSEHOLD & COLLECTABLE:

Large and small appliances; Misc. household furniture, tables, chairs, lamps, bed, end tables, etc.; Misc. kitchen items, glassware, dishes, pots and pans, utensils; Misc. vases, knick knacks, wall hangings; Misc. collectible items and glassware.

JACK & CAROLYN "SUE" WILLIAMS ESTATE, SELLER

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Page 16 Grass & Grain, February 14, 2017 Kansas Corn Corps Young Farmer Program accepting applications for second class

Kansas Corn is accepting applications to the second class of the Kansas Corn Corps, a program for young farmers. This 16-month program provides learning and networking opportunities for young corn farmers and is sponsored by the Kansas Corn Commission and Kansas Corn Growers Association. The Kansas Corn Corps program is focused on providing participants the opportunity to learn new techniques, strategies and information they can take back to their farms.

Kansas Corn will take applications from farmers 45 and younger to participate in Class 2 of Kansas Corn Corps until September 15, 2017. The program can accept up to 15 farms into each class.

Corn Corps is open to couples and individuals, allowing young growers to come together to learn skills and information they can use to enhance their farms. The program is designed to provide opportunities for engagement to enhance the Kansas corn industry. The

sessions and a domestic agriculture trip will be held over a 16-month timeframe. The program also will include social networking opportunities throughout the year.

rector of Industry Relations said. "Participants provide

input into session topics,

and each are challenged to

find the best way to engage

as individuals in the corn

Corn Corps held its first re-

treat in December, and is

preparing for a second re-

treat in February.

Class 1 of the Kansas

"Early comments from

our first class of the Corn

Corps have been extreme-

ly positive," Mayo said. "In

addition to being energized

by the speakers, the class

members emphasize the

value of being able to build

a network with young farm-

ested corn growers to apply

for Kansas Corn Corps class

soon. To participate, farm-

ers must be active in the op-

eration and growing corn in

Kansas. Participants must

be 45 or younger, and both

men and women are encour-

aged to apply. Applications

for Class 2 are due Sept. 15,

2017. For more information

and to download the appli-

cations, visit kscorn.com/

corncorps, or call Kansas

Corn at 785-448-6922

Mayo encourages inter-

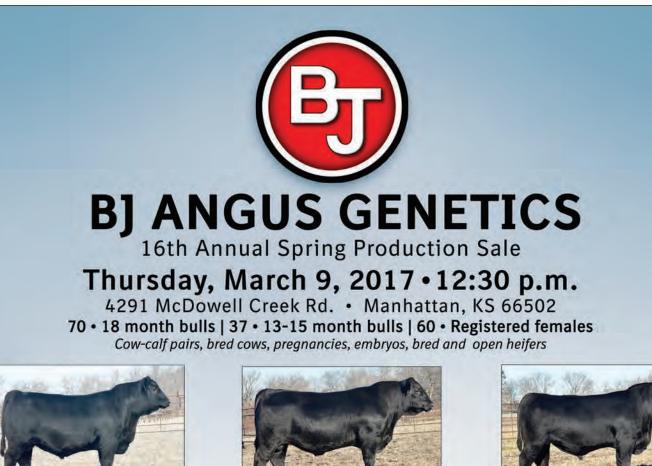
ers from across the state."

industry.'

Participants learn how they fit into their farm as individuals; how their farms fit into the corn industry and what opportunities and hurdles the corn industry faces as part of the overall agriculture system.

"We strive to have speakers that will challenge our Corn Corps members and





BI Generation 5319 CED +12 • BW -.2 • WW +60 YW +114 • CW +53 • Marb +.90 RE +.94 • \$W +71 • \$B +155



ON THE EDGE OF COMMON SENSE

My Kinda Truck I like a pickup that looks Pickups are Pickups are kinda like

like a truck And not like a tropical

fish. Or a two-ton poodle with running lights

Or a mutant frog on a leash.

Give me one tough as a cast iron skillet

With a bumper that's extra large

And a hood that weighs

over eighty-five pounds And looks like the prow

on a barge. I like style but since when should a truck

Be touted for comfort and ride?

Power windows on pickups? Reminds me of jeans

With a zipper that zips up the side.

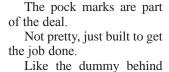
They should soak up the

dents of everyday life Like a boxer losin' his

teeth. And I like a truck, when

you lift up the hood

You can see the ground underneath!



welding gloves.

the wheel.

Don't get me wrong, I know beauty's skin deep

And ugly is the eye, But to find out if your

truck is my kinda truck Here's a test that you can

apply:

If you have a small wreck in the parking lot

By backin' a little too far, Your only worry is how big a mess

You made of the other guy's car!

Agribusiness industry will award \$6,000 in agricultural scholarships

The Kansas Agribusiness Retailers Association (KARA) will award six scholarships to Kansas high school graduating seniors or current undergraduate students enrolled in a Kansas four-year university, community college or vocational technical school and planning to or currently majoring in an agricultural related field of study. Scholarship recipients are self-starters, in excellent academic standing, good school and community citizens with a strong desire to continue their education.

Because of successful fundraising efforts, KARA has decided to add another \$1,500 scholarship for the 2017-2018 school year. KARA will be giving four scholarships in the amount of \$1,500 each. Each year KARA also awards one \$500 Jim Lee Memorial Scholarship and one \$1,500 David Whitney Agronomy Scholarship.

For more information on the KARA scholarship program, please visit http:// www.ksagretailers.org or contact Devon Stewart at



CED +10 • BW -1.2 • WW +66 YW +117 • CW +56 • Marb +1.22 RE +1.24 • \$W +79 • \$B +160

B] Anticipation 5323

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BW +2.6 • WW +72 • YW +135 CW +53 • Marb +.66 • RE +.61 \$W +71.18 • \$B +165.82

B] Discovery 5347



B] Ten X 4018 BW +2.3 • WW +68 • YW +121 CW +57 • Marb +1.23 • RE +1.01 \$W +72.28 · \$B +178.91

Preview the offering at www.bjangus.com

 Videos available after March 1 Live online bidding available





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devon@kansasag.org Since 1954 GRASS & GRAIN Subscribe today at 785-539-7558 or online at grassandgrain.com Classifieds **Our Daily Bread Baxter Black** Yard & Garden Tips Auction Listings **Special Issues**