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Published by AG PRESS

58th Year

No. 27

August 27, 2013

\$1.00



Don't let bad become normal was Grandin's message at Pittsburg State University

By Donna Sullivan, Editor

When Dr. Temple Grandin traveled from Colorado State University to Pittsburg State University on August 14, her evening presentation was about her experience with autism. But that afternoon, her focus was on livestock handling as she spoke to a room full of area producers in an event sponsored by the Wildcat and Southwind Extension Districts with the support of the Helen. S. Boylan Foundation.

The CSU professor of animal science designed the facilities that are used for half the cattle handled in the United States. She has consulted with McDonald's, Burger King, Swift and many others and was featured in the BBC documentary *The Woman Who Thinks Like a Cow*.

Her life's work and mission has been teaching humane livestock handling techniques and she wasted no time getting to the point. It's not just about having the proper facility or the proper handling guidelines. It's also about understanding basic principles of animal behavior.

"With any animal, one really important thing is, a calm animal is easier to handle," she said. "If you bring them in and they get kind of scared and excited, maybe let them calm down for half an hour." She said to look at an animal's eyes for an indication of their fear level. If the whites of their eyes are showing, it's an early warning they are scared and possibly about to kick. "An animal that's calm will have nice, soft brown eyes," she described. "But when they get fearful, the whites of their eyes show. That is a scientifically validated measure."

In other research, she said it's been determined that if the hair whorl on an animal's forehead is up high, they tend to be more flighty.

Distractions are something Grandin has long warned about. "I've been doing talks on cattle handling for a long, long time. I've been talking about things like distractions – things like a chain hanging down in the chute. These are things that will make the animals not want to go into your facility," she explained. "Why, after forty years, do I still have to talk about this?" She includes a checklist of possible distractions in her book, *Humane Livestock Handling*.

But even students that sit under her tutelage daily sometimes miss obvious distractions. "I had just talked about this with my students and showed them a slide. Then we had a lab and I deliberately had a chain hanging down. I had fifteen students come into the cattle handling facility and only two saw it."

"One of the things I want to get you thinking about is the visual detail," she continued. "What are they seeing, what are they hearing?"

With vision as their dominant sense, things like a change in flooring will cause the animal to stop. She recommends when that happens, give the animal an opportunity to put its head down and take a look. "Because if you push them, they're going to turn back on you," she warned. If going from dirt to concrete, a little dirt thrown onto the concrete will cut down on the contrast, because they're going to stop wherever they see contrast.

She described time of day distractions to avoid, like reflections on water or buildings from the sun. Time of day can affect the way the shadows hit the facility, causing the animals to balk. These can be avoided by simply changing the time of day the cattle are worked.

Light can be used to the handler's advantage, if considered properly. "Animals have a tendency to go from dark to light," Grandin described. "But they're not going to go into blinding light. Get down in that chute and see what those animals are seeing. If you've got a bunch of people standing where the cattle can see them, get the people back or put a solid side on it. Do one or the other."

Using a slide of a cattle-handling facility inside a building, she described what



With the Fisk Opus 106 organ as a backdrop, world-renowned livestock handling specialist Temple Grandin spoke to a large audience of producers at Pittsburg State University on August 14.

Photo by Donna Sullivan

she calls the black hole or movie theater effect. "When it's super-bright outside, they won't go in," she said. "At night I could light this up and it would work just fine." She said an open door on the other side to let in daylight, or translucent white panels that provide shadow-free daylight would also fix the problem.

"I always get asked, are animals afraid to go in a slaughterhouse," she said. "That's a question I had to answer early in my career. So I went down to the local Swift plant and then I went down to the feed yard and watched them handle cattle and they behaved the same way in both places." She told of a YouTube video she's produced showing the process in a slaughterhouse, Beef Plant Video Tour – Tell a Friend.

Grandin believes that transparency in the livestock industry is paramount to keeping good relations with consumers. "I think we've got to open the door and show everything that we're doing," she maintained. "Ag has done some dumb things and I think the ag gag laws are one of the dumbest things they ever did. I've worked all my career on improving slaughter plants, and we've got them working really well right now. It's a different industry now than it was back in the '80s and early '90s."

Grandin made a name for herself in the livestock industry in part because of her cattle handling facility designs. "Cattle have a natural

tendency to want to go back to where they came from," she explained. "I want to use their natural behavior. A cow has to be able to see ahead of herself two body lengths. If

the walls bend too sharply, it will not work. Tubs laid out wrong do not work." She said the best design for a tub is a full half-circle. Many of her layouts can be

found in her books and on Grandin.com.

Understanding the flight zone is another important component, according to

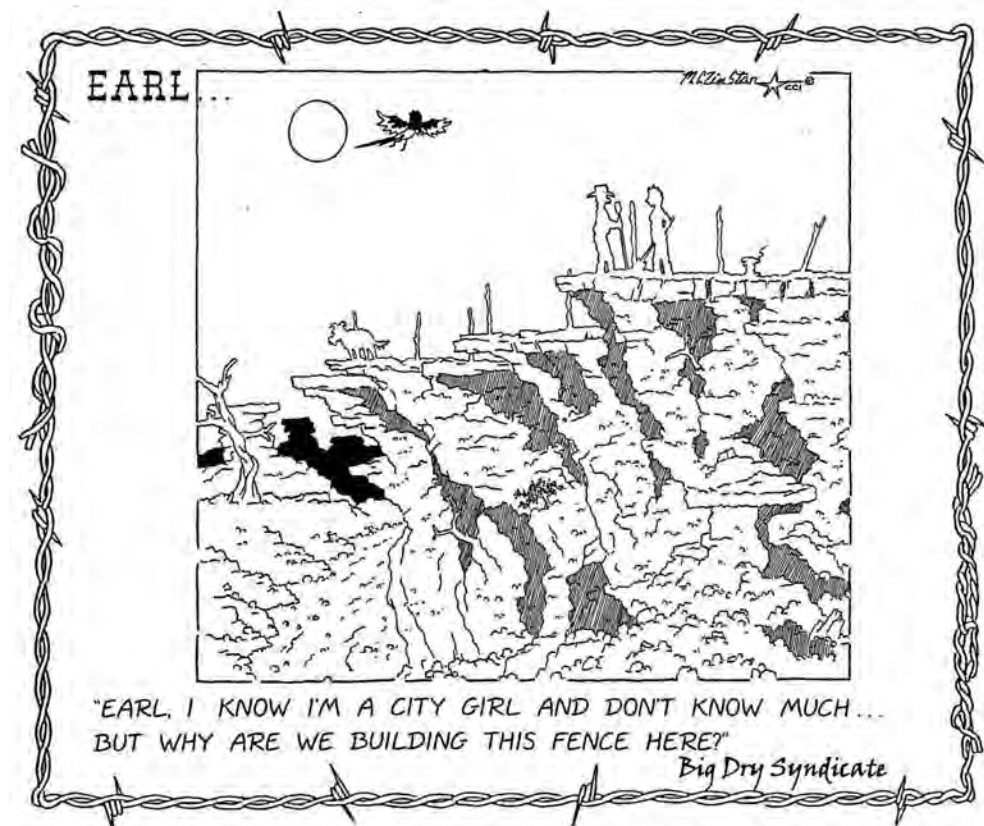
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Drones will play a role in gathering ag info



Dr. Kevin Price discussed Small Unmanned Aircraft Systems (sUAS), better known as drones, at Kansas State University's Agronomy Field Day on August 16. Themed "New Technologies for Crop Production," the field day also included discussions and demonstrations on other optical technology that can be used in crop scouting as well as demonstrations of equipment used in research on climatic stresses in crop production.

Photo by Donna Sullivan



Each year we bale a few small square bales of hay. We use them to coax the cows into the pens in the fall, feed them to the ewes in the lambing jugs, any animal in the sick pen, and the occasional seat at a church event. We don't bale very many, but we do bale enough to make me appreciate my big round baler.

I wasn't very old when Dad got his first big round baler; I kind of remember him putting up thousands of small square bales each summer and feeding them out in the winter. There were a number of years he baled, loaded, unloaded and stacked the bales pretty much by himself. Each summer I marvel at this feat after stacking my few hundred bales in the loft, with help.

Sure, there would be some benefits to feeding small square bales. I would bet that my hay wastage would drop significantly. You'd better believe that if I go through all that work and pain to handle all that hay, the sheep and cows are going to savor every mouthful. I would also guess that the hay would be much better quality, after all much of it would be stored in my loft away from the elements.

The most obvious benefit would probably be to my health. I keep trying to sell my friends on the great "burn" a session of unloading small square bales gives you. It is far better than any workout at any gym (of course this is all theory on my part). Think of all the calories you would burn and all the muscle groups that get worked out. I know if I fed all small square bales I would be in much, much better shape.

Of course in reality, the labor-saving benefits of handling big round bales versus small square bales is kind of a no-brainer. In the summer Dad and I can bale much more hay in much less time with a great deal less labor. The labor savings and time savings are also passed along in the winter when the hay is fed to the cows. Baling small square bales and stacking them in the loft does make us all a bit nostalgic about the way farming and ranching used to be. I suppose it is a

bit of a metaphor of some of the attacks we are all under in agriculture today.

Small square bales make us all remember a time when all farms were smaller. I am sure in the filter of time things seemed simpler. You worked hard, kept your nose to the grindstone, made a good living and turned around each morning and did it all over again. Farms were smaller because the work was so physical. The physical nature of the work also took its toll. Have you ever met an older farmer who didn't have a bad back, worn-out knees, hips that were shot and shoulders that didn't work?

Then along came better technology, i.e. big round bales. This invention made it easier to bale more hay and feed that same hay to more cows with less labor. All of this technology made our jobs much easier physically and it made us much more efficient also. Sure, we can think back fondly to the past, but the reality is that we need the increased output that big round bales give us. I also suspect that there will always be a place for small square bales.

Now take this idea and apply it to other, more controversial areas of agriculture like GMO crops. Our GMO crops allow us to utilize other new technology like no-till. Sure, much like small square bales, I miss disking. There was something therapeutic about tilling up the land and the smell of newly tilled soil. However, GMO seeds allow me to be a more efficient producer while still being a good steward of the land. The world and its increased population need me to be the most efficient and productive farmer I can be.

At the end of the day, there is still a need for all types of farming and all kinds of farmers much like there is a need for all sizes and shapes of hay bales. While I would not give up my big round baler or my pickup bale bed to go back to feeding all small square bales, there is something to be said for the good kind of tired you feel at the end of the day looking at a big stack of bales in the hay loft and I am glad for both experiences.



Safety in the sun

By John Schlageck,
Kansas Farm Bureau

My dermatologist recently shared with me a list of five ways to die on a golf course. The five ways include hit by a golf ball, run over by a golf cart, whacked by a golf club, struck by lightning and forgot your hat.

While none of these possibilities is pleasant to contemplate, the threat of skin cancer is real and should be considered carefully.

Every year one million new cases of skin cancer are detected, according to the American Academy of Dermatology. One out of five people in this country develops skin cancer during his/her lifetime.

Americans love vacations with their families – many of these trips include trips to the beach or outdoor amusement parks. Many others work for long hours in the sun during the summer months – farmers, ranchers, construction workers and amusement park attendants.

If you spend several hours in the sun, protect yourself. Avoid the midday sun if at all possible. Cover

up. Always wear a hat. Work in the shade whenever possible. And don't forget to wear sunscreen.

Melanoma is the deadliest form of skin cancer. One person dies every hour from this disease in the United States, according to the American Academy of Dermatology.

Fortunately, melanoma can be completely cured if it's caught early enough. Dermatologists advise us to examine our skin regularly.

If you find a blemish larger than a pencil eraser, multi-colored, asymmetrical or irregular at the edges, you may have melanoma and should see your dermatologist.

While we should protect ourselves from potential skin cancer, we should be every bit as aware of this danger for our children. Overexposure to sunlight during childhood will affect children for the rest of their lives.

Studies show that damage from the sun to a child's skin can actually increase the odds that he or she will develop skin cancer as an adult.

The American Academy

of Dermatology estimates 80 percent of a person's total lifetime sun exposure occurs in the first 18 years.

Protect your children. Cover them up. Teach them to wear long-sleeved cotton shirts that breathe. Make sure they wear head protection at all times. Make wearing sunscreen part of the ritual for gearing up for the sun.

While skin cancer can kill you, it's much more likely to disfigure you. Each year, thousands of Americans lose chunks of their skin to this disease. Some people lose their nose; others may lose their ears, while others may get off with only the loss of an eyebrow.

Examine your skin regularly, at least once a week. Look for warning signs.

If you find anything bleeding, crusting or not healing, see your dermatologist immediately. And if you want more information on how to identify skin cancer visit www.aad.org.

It's all right to enjoy the sun and spend time outside. Remember these common-sense suggestions, have fun, and like everything else in life – enjoy the sun in moderation.

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.

Kansas Grain Commodity Commissions accepting applications for candidates

Kansas Grain Commodity Commissions announced they will begin accepting applications for candidates in central Kansas seeking a seat on one of the state's five grain commodity commissions – corn, grain sorghum, soybeans, wheat and sunflowers.

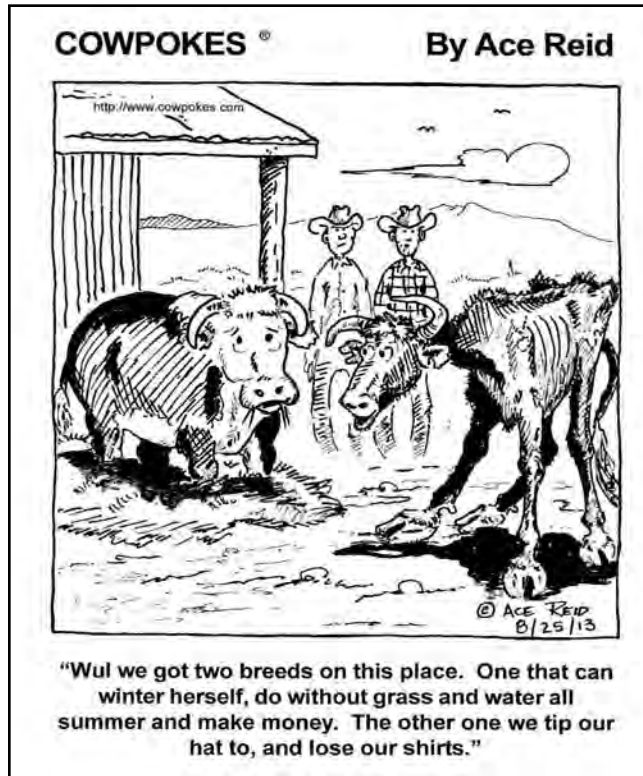
To be eligible, candidates must have been actively engaged in growing corn, grain sorghum, soybeans, wheat or sunflowers within the preceding

five years and must gather 20 signatures from eligible voters to be included on the 2014 ballot. No more than five signatures from any one county can be used to qualify a candidate. Eligible voters must be Kansas residents of legal voting age at the time of election and actively engaged in growing corn, grain sorghum, soybeans, wheat or sunflowers within the last three years.

Applications must be filed with the Kansas Department of Agriculture by November 30, 2013. To obtain an application, candidates should contact the Kansas Department of Agriculture or the grain commodity commissions.

The 2014 election will cover central Kansas, districts four, five and six. Counties in district four include: Clay, Cloud, Jewell, Mitchell, Osborne, Ottawa, Phillips, Republic, Rooks, Smith and Washington counties. District five counties include: Barton, Dickinson, Ellis, Ellsworth, Lincoln, McPherson, Marion, Rice, Rush, Russell and Saline counties. District six counties include: Barber, Comanche, Edwards, Harper, Harvey, Kingman, Kiowa, Pawnee, Pratt, Reno, Sedgwick, Stafford and Sumner counties.

For more information about the Kansas Grain Commodity Commissions, please visit each of their websites: Kansas Corn Commission, www.ksgrain.com/kcc; Kansas Grain Sorghum Commission, www.ksgrain.com; Kansas Soybean Commission, www.kansassoybeans.org; Kansas Sunflower Commission, www.kssunflower.com; and Kansas Wheat Commission, www.kswheat.com.



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Published by AG PRESS

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Fax 785-539-2679

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GRASS & GRAIN (USPS 937-880)

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

Subscription — \$79 for 2 years. \$43 for 1 year, includes sales tax. Outside Kansas, \$50 for 1 year, \$93 for 2 years.

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Grandin speaks at Pittsburg State University

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Grandin, who said that a tame 4-H or FFA steer might not have any flight zone at all. The size of the flight zone can be determined by genetics, the amount of contact with people, how much time has been spent taming them down, and good versus bad experiences with the facility and human contact.

She believes in using driving tools as a last resort. "People get way too excited with driving tools, yelling and screaming and whacking them," she stated. "Calm down! The first thing you've got to do is calm down. If they get all freaked out and scared they're going to be all sticking together."

Grandin says the crowding pen would be better named a "passing through" pen, and that small groups of cattle should be brought up at a time so their natural following behavior can be used. "One of the really simple things you can do without spending a lot of money to improve a facility is have enough single-file chute length," she said. "If your single file chute can only hold two cows, you can't get them to follow. If I bring four cattle up, then I can use the following behavior."

Cattlemen today understand the role temperament plays in weight gain, but that wasn't always the case. "I did some of my very first work on cattle tempera-

ment," said Grandin. "It was groundbreaking stuff when we first started publishing it in the *Journal of Animal Science*. Now people are speed scoring their cattle. Cattle that come out of the chute fast have lower weight gains."

While temperament is important, she cautioned against focusing too much on that, or any other, single trait. "My philosophy on temperament selection is, we need to be looking at the optimum. Don't select your beef cattle to all be a bunch of dull heads that don't even move. You don't want to turn your beef cattle into a bunch of Holsteins that are not going to protect their calves."

Grandin sees many potential problems in producers over-selecting for narrow EPD traits. "If you only select for a single trait, you're going to end up making a mess out of your animals," she warned. "Right now we've been interested in tenderness genes. Well, we don't want to end up with some kind of muscle weakness problem because we went all crazy with that. We need to start looking at what is optimum."

After spending her career working in livestock handling, Grandin's concern is for producers to maintain improvements she's taught them over time. "I go out and I work with people and get their handling right and

then I come back a year later and the handling is bad again. They slipped into bad becoming normal. They slowly slipped into bad practices and didn't realize it." Her solution is to have measurable standards that can be applied, rather than vague concepts. "We manage what we measure, so I'm a big proponent of measuring things," she said. "We've done this in the meat packing plants. What's your stumbling score, what's your prod score, what's your falling-down score?"

"I like clear guidelines," she continued. "Handled properly, adequate space – what does that mean?" Using traffic laws as an example, she pointed out how there really are only three important things that get measured – speeding, stop sign and red light violations, and impaired or erratic driving. Likewise, measurable standards can be applied to livestock handling, such as "all the animals have enough space to lie down without being on top of each other" rather than "adequate space."

By measuring things, Grandin says the industry can begin to tell if they are getting better, or getting worse. "How many animals run? How many animals fall?" she said. "How many animals moo when you catch them in the squeeze chute? If they moo right when you catch them in the squeeze

chute, you're hurting them. How many animals did I move with an electric prod?" The principle of the scoring system is to measure a small number of important things and make improvements where they are needed.

While her principles were developed for use in slaughter plants, many can be applied on the farm or ranch,

where she says it is equally important to not allow bad practices to become normal. Measurable standards on the farm include body condition score in cattle, lameness, and bald spots caused by lice. "Lice are not okay," she said. "Bald spots on cattle are not okay. That would be bad becoming normal."

Protecting agriculture's reputation with the public is also crucial, and Grandin emphasized there are some things you just don't do. Among them, "You don't drag downer cattle with a loader tractor. What we have to be looking at in everything we do is, how is that going to play on YouTube?"



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Home and Away

Looking for Signs

By Lou Ann Thomas

When facing a decision or a fork in the road, have you ever asked for some kind of sign to help indicate which path would be the most advantageous? And then do you begin to question if everything you see or notice is that sign?

Years ago, when I was ready to move out of the city and return to life in the country, I found a very rustic house for rent about an hour outside of the city. After checking it out, it felt like it might be a good fit, but I wanted to get another opinion, so I took my friend Andy with me for another look-see. On the way there, with no storms in the immediate area, we saw a triple rainbow. I considered it a sign, as I did the four deer calmly grazing in my soon-to-be front yard as we pulled into the driveway. The house turned out to be a perfect transition from city to country living.

But sometimes, signs are more subtle and can be so vague that I'm not even sure they're signs. Maybe an ad on a passing bus catches my eye or I overhear a snippet of conversation that pertains to whatever decision I may be facing. Often I ask for a sign and begin to question

everything: Was that a sign? Or that? Is not receiving a sign, a sign?

And I wonder, how many signs have I overlooked? Once requested, my guess is signs start popping up everywhere, but I'm not picking up on them or am napping at the time of their arrival. Sometimes, I imagine the all-knowing Sign Creator tossing out indicators one after the other as I merrily step over them, dismiss them or am leaning over scraping goo off my shoe when one flies by, narrowly missing smacking me in the head.

But there are times I can't deny being given a clear signal. One day my friend Chris and I were enjoying lunch at a sunny sidewalk café. We were both writing books at the time and were sharing our frustration with the process. We'd just admitted we were considering abandoning our book projects when a young woman walked by wearing a brightly colored t-shirt that caught Chris's attention. He pointed it out and I looked up to catch the writing on the back, which read, "Write the damn book."

If only it was all that clear.

Spend Quality Time With Your Kids — Creating Quality Treats



(NAPSA) — Whether in school or on summer break, kids are nearly always on the go — and bite-sized, sweet snacks are the perfect treats to keep them going on long summer days.

Fortunately, portable treats to take along on car rides, enjoy poolside or put into the school lunchbox can be easy to whip up. You can even have the kids help you make them for some quality family time.

The sweetest part about these no-bake treats is they're made with Karo Syrup, the only widely distributed brand of corn syrup that contains 0 grams of high-fructose corn syrup.

Here are two for you to try:

Cookies & Cream Cereal Bar Treats

Prep Time: 10 minutes

Cook Time: 5 minutes

Yield: 2 dozen bars

Mazola No-Stick Cooking Spray

6 cups chocolate crispy rice cereal

2 cups crumbled chocolate sandwich cookies

1 cup Karo Light Corn Syrup

1 package (12 ounces) semisweet chocolate chips

Optional toppings: chocolate cookie crumbs, mini chocolate chips, mini candy-coated milk chocolate pieces

Spray 9-by-13-inch pan with cooking spray; set aside. Combine cereal and cookies in a large bowl.

Combine corn syrup and chocolate chips in a large

saucepan over medium heat. Cook until mixture just begins to boil. Remove from heat. Pour over cereal, stirring to coat completely. Pour into prepared pan; press firmly to level. Top with any of the optional toppings, if desired; pat into place. Cool and cut into bars. Store in air-tight container for up to 2 days.

Peanut Butter & Jelly Bars

Prep Time: 20 minutes

Cook Time: 40 to 45 minutes

Yield: 24 bars

1 cup butter OR margarine, room temperature

1 1/4 cups sugar

1/4 cup Karo Light Corn Syrup

2 eggs

2 cups creamy peanut butter

3 cups all-purpose flour

1 1/2 teaspoons salt

1 teaspoon Argo Baking Powder

1 1/3 cups strawberry jam

2/3 cup salted peanuts, coarsely chopped

Preheat oven to 350 degrees. Cream butter, sugar and corn syrup in a large

bowl with mixer at medium speed 1 to 2 minutes. Beat in eggs and peanut butter until combined. Combine flour, salt and baking powder in a small bowl. Add to peanut butter mixture; mix on low speed until dough forms. Divide dough into thirds. Press 2/3 of the dough in the bottom of a greased 9-by-13-inch pan (OR for easy removal, line pan with greased foil, leaving 2 inches foil extending over pan at ends). Spread strawberry jam over dough. Drop small pieces of remaining dough over the jam (dough will spread during baking and cover jam). Sprinkle top with peanuts. Bake 40 to 45 minutes until light golden brown. Cool in pan on wire rack at least 30 minutes. If pan is lined with foil, use foil to lift bars from pan. Cut into bars. Delicious with a glass of cold milk!

Learn More

You can find more easy, family-friendly recipes and baking tips at www.karosyrup.com and (866) 373-2300

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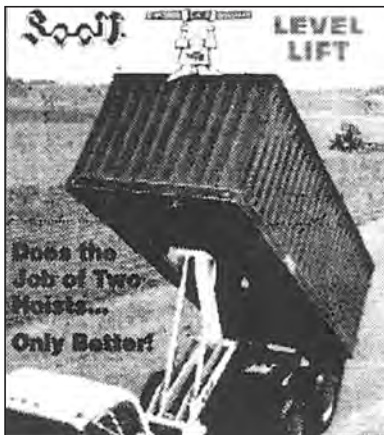
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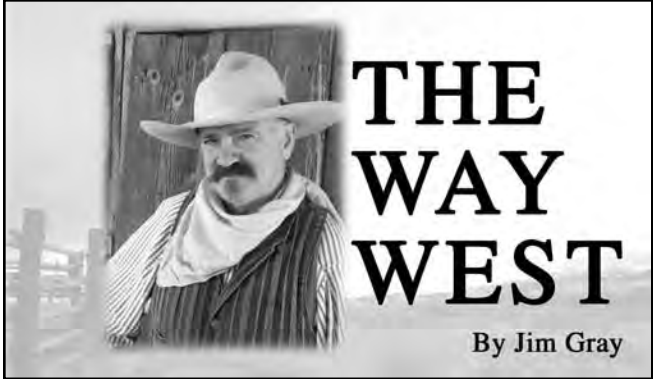
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Lines in the Sand

The Kansas Legislature created Meade County in 1873, in honor of General George G. Meade. The country was uninhabited as far as the government was concerned. To be settled the land first needed to be surveyed. Oliver Short, Luther Thrasher, and Abram Cutler of Lawrence, were described as pioneers of “long experience” in the art of survey. Captain Oliver Francis Short was the overall leader of the team. He had served in the Civil War and was said to be one of the first professional surveyors in Kansas.

Captain Short’s team included his two sons, Truman, fourteen years of age, and Harold, sixteen, James Shaw and his son, J. Allen Shaw, seventeen, Harry C. Jones, twenty-two, and J. Harry Keuchler, eighteen. Truman and Harold Short were students at Kansas University who went out to draw invisible lines in the sand during summer vacation. In fact, all the young men of the three crews were Kansas University students. J. H. Keuchler was also a family member, being a nephew of Captain Short. Harry Jones was a nephew of Capt. Abram Cutler.

Meade County was approximately thirty miles southwest of Fort Dodge and Dodge City, the centers of activity for the region. Across the southern border

of Kansas, Comanches, Cheyennes, Arapahos, Kiowas, and Apaches were gathering for a new war about to be unleashed upon the southern plains. They had drawn their own line in the sand. The ordeal would be known as the Red River War.

On June 27, 1874, an established buffalo camp called Adobe Walls was attacked. The hunters prevailed with their famous long-range weapons. Medicine Water, the leader of the Cheyenne Bowstring Warrior Society, returned to the Cheyenne Agency at Fort Reno after the failed attack. He and his wife, Buffalo Calf Woman, had lost family at the Sand Creek Massacre in 1864 and the Black Kettle Massacre in 1868. Buffalo Calf Woman was, in fact, the only member of her family left alive. Within days the Bowstring warriors set out for Kansas and revenge.

In that atmosphere Captain Short’s surveying party ventured onto the plains southwest of Dodge City. They established their main camp on Crooked Creek near a solitary cottonwood tree. The camp was dubbed “Lone Tree.” Work started on August 8, 1874. Two crews led by Luther Thrasher and Abram Cutler surveyed one square mile at a time to establish individual section lines. Oliver Short led the third party, surveying

the larger township lines, which meant running a square six miles in each direction to ultimately encompass the collection of section lines surveyed by the other crews. Surveying at such a distance, Short’s team developed a routine of staying out from the main camp for several days at a time.

Meanwhile, the United States Army coordinated the Red River campaign against the Indians. As the soldiers passed by the surveyor’s camp en route to Indian Territory the surveyors requested protection from General Miles. Short was advised that the army was keeping the Indians out of Kansas, therefore protection for the surveyors was unnecessary.

Medicine Water knew

surveyors were easy to kill when he led his warriors in an attack from a ravine. Fourteen-year-old Truman Short was on the only horse, flagging the survey line. Captain Short was the first to be killed. Truman was easily cut down as he charged his horse toward the attackers. The bodies of the Captain and his son were loaded into the wagon by the remaining men as they fought to repel the warriors.

One at a time the stunned surveyors fell in a running battle toward the Lone Tree Camp. Each time a man fell, his body was quickly placed in the wagon as the ox team slowly plodded up the valley of Crooked Creek.

The struggle continued for four miles until the last survivor, James Shaw, was

surrounded and killed. The camp dog was shot. The oxen were killed and a hind quarter was taken from one of the animals for beef.

Sounds of gunfire had been lost in the wind. No one at the Lone Tree heard the gunfire or imagined anything had gone wrong. August 26, 1874, two days after the massacre, Sam W. Howe noticed the covered wagon silhouetted against some bluffs. An investigation revealed the mutilated bodies of his friends scattered around the wagon.

The bodies were wrap-

ped in tent cloth and tenderly placed in the earth a little ways south and east of the lone tree camp where the little band of surveyors had drawn lines in the sand for the advancement of civilization on The Way West.

“The Cowboy,” Jim Gray is author of *Desperate Seed: Ellsworth Kansas on the Violent Frontier* and also publishes a historical paper, the *Kansas Cowboy, Old West history from a Kansas perspective*. Contact Kansas Cowboy, Box 62, Ellsworth, KS 67439. Phone 785-531-2058 or www.droversmercantile.com



The Geary County Free Fair reserve champion breeding sheep award went to Kaitlyn Butler for her Shropshire spring breeding ewe lamb.



Reserve champion sheep showmanship honors at the Geary County Free Fair went to Kati Fehlman.

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When to Say No!

Before you write a check to buy a horse, use this common-sense approach to evaluate the quality of the horse.

It's easy to overlook bad traits with the emotion of the moment or with a horse that looks good on the outside but may have underlying qualities that aren't suited for you. Simple guidelines can keep you out of trouble and insure you are buying the right horse.

When a professional trainer buys a horse for a client or for their own use, they know exactly what they're looking for. Emotions don't enter into the decision. If the horse doesn't have the qualities for the intended use or fit the client's skill level, they keep looking.

Buying the wrong horse has long-term personal and financial consequences that can send your dreams into a tailspin. Remember, you're looking for a partner that can fulfill a special spot in your life and become part of your family.

Here are five tips to help you choose the right horse.

• Intended Use

What do you really want the horse to do for you? Search your soul and find the most important part this horse will play in your life. Is this horse capable of barrel racing or cutting and will he also be a good trail horse? Can my kids ride him? Does he have the qualities to enter the show ring and will he stand up to the rigors of competition? Is he pleasing to my eye? Will any blemishes you see on him during the inspection detract from his intended use or will they become irritating to you or the horse as time goes by? Be convinced that this horse can do what you want him to do. If you have any doubts,

put him on hold while you look elsewhere.

• Breeding

If you want a cutting horse or any other discipline, do your homework and look at the horse's breeding. History repeats itself. If his daddy did it, maybe he can too. Was his dam a performance horse with good athletic ability? What level of dressage did she achieve? Check out the breed reports for performance points or earnings he and his ancestors may have earned. The more they have accomplished doesn't always mean this horse will do the same thing but you will know he has the right genes for the job you have in store for him.

• Training

Ask the owner about the horse's training. Was the horse trained in the discipline you are interested in? Find out who trained the horse and how much training the horse actually had. Call the trainer and get their opinion on the horse's ability and demeanor. Find out if the horse had any issues the trainer had difficulty with. For instance, did the horse have tendencies to buck, rear or run off? If you want a dressage horse and the horse had no training in dressage, this isn't the horse for you unless you want to spend the time and cost to retrain the horse to your needs. Some horses have the ability to be proficient in several different disciplines. If this horse can perform in different events, you can be assured he has ability to cross-train and may be a worthwhile choice for you. Have the owner ride the horse first and demonstrate its abilities. Knowledgeable horsemen always ask the owner to ride the horse so they can observe if there are any

flaws in the animal's behavior. If the horse performs well with the owner and has no obvious vices, you can feel confident you will not find yourself in the saddle on a runaway or violent animal.

• Spook

Nothing is more irritating or dangerous than a horse that jumps or bolts at every little issue. A horse that throws his head when you attempt to brush or place a bridle on him can be dangerous. Loud noises, birds flying overhead or trailer doors slamming are all part of our world. You want a partner that accepts and is comfortable in an environment that has all of these potential threats. If the horse shows fear and reacts violently to these distractions, he will certainly be dangerous to you. Ensure that the horse is comfortable with unusual noise, movement or being surprised by your presence or touch on different parts of his body. Ask to tie the horse to the side of a horse trailer and observe the animal's reactions. Leave him there for a short period and observe his response to sudden movement and different disturbances like trailer doors opening and closing. Have the owner load him in the trailer. Does he load easy or

does he become fearful and balk? Is this horse comfortable loading, unloading and standing in a trailer? If he's relaxed, he is probably tolerant of the commotion humans create and should handle other distractions as well.

• A Soft Eye

Simply put, a soft eye can mean a gentle, kind, inquisitive or curious horse. Horses with a soft eye are not generally spooky or afraid of humans. They've been treated kindly and have no fear of what a person may do to them. They are calm and relaxed. A hard-eyed horse will show more white in the eye and be fearful, anxious or angry. These horses will usually be tense and resistant to human contact. Place your hand on the horse's forehead and see if he accepts your gesture. If he doesn't become nervous and allows your hand to remain without fidgeting or pulling back, he probably has a soft eye. A nervous, angry, hard-eyed horse will not allow this friendly gesture. By all means put a positive check mark by the soft-eyed horse. s of buying a quality horse.

You don't have to be an expert horseman to perform these basic assessments. They are fundamental and will help you evaluate

whether the horse has the qualifications you desire. If the horse passes these simple requirements to your satisfaction, put him on your list as a definite maybe. Now it's time to move on with professional assistance to further insure he'll make the grade. Have a veterinarian perform a health check. Get a second opinion from a trainer or knowledgeable horseperson who has the experience to help you make the final decision. Keep notes on all the horses that meet your requirements.

When you've narrowed your choice down to that perfect mount, you'll feel confident you're buying the right horse. You've done your homework and chances are you have picked the type of horse that you are looking for. Use this check-list of priorities to make sure you are making the right decision. Don't hesitate to say no if the horse scores low on any of these five basic requirements.

Contact Ralph Galeano at horseman@horsemanspress.com or www.horsemanspress.com

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Expo, 900 Greeley SALINA, KANSAS

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posters; concert posters; marbles; coffee & tobacco tins; windmill art pieces.

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See last week's Grass & Grain for listings & for pictures check our website www.thummelauction.com

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See last week's Grass & Grain or
Check website for pictures at www.thummelauction.com

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AUCTION

SATURDAY, SEPTEMBER 14 — 10:00 AM

PHILLIPSBURG, KANSAS

AUCTION LOCATION: 156 West Osage Road, Phillipsburg, KS. From Phillipsburg, 2 miles west on Hwy 36 from junction of 36 & 183 at the bank corner, then 2 miles north on West 200 Rd. & 1/2 mile east on West Osage Rd. OR from junction of Hwy 36 & 183 at the bank corner, 3 miles north and 1 1/2 miles west on West Osage Rd. (dirt road).

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Drought stress research demonstrated at KSU Field Day



P.V. Vara Prasad, associate professor and director of K-State Center for Sorghum Improvement, spoke of drought stress research being done at the University during the Agronomy Field Day on August 16. As part of the research, the shelter above moves forward to cover the small test plot when a sensor detects rain. Once it has not detected rain for a certain amount of time, it is programmed to go back to its original position.

Photos by Donna Sullivan

Study finds PHS gene that prevents wheat from sprouting; fewer crop losses anticipated

A new study about the common problem of preharvest sprouting, or PHS, in wheat is nipping the crop-killing issue in the bud. Researchers at Kansas State University and the U.S. Department of Agriculture-Agricultural Research Service, or USDA-ARS, found and cloned a gene in wheat named PHS that prevents the plant from preharvest sprouting. Preharvest sprouting happens when significant rain causes the wheat grain to germinate before harvest and results in significant crop losses.

“This is great news because preharvest sprouting is a very difficult trait for wheat breeders to handle through breeding alone,” said Bikram Gill, university distinguished professor of plant pathology and director of the Wheat Genetics Resource Center. “With this study, they will have a gene marker to expedite the breeding of wheat that will not have this problem.”

Gill conducted the study with Guihau Bai, a researcher with the Hard Winter Wheat Genetics Research Unit of the USDA-ARS, adjunct professor of agronomy at Kansas State University and the study’s lead author. Also involved were Harold Trick, professor of plant pathology; Shubing Liu, research associate in agronomy; Sunish

Sehgal, senior scientist in plant pathology; Jiarui Li, research assistant professor; and Meng Lin, doctoral student in agronomy, all from Kansas State University; and Jianming Yu, Iowa State University.

Their study, “Cloning and Characterization of a Critical Regulator for Pre-

Harvest Sprouting in Wheat,” appears in a recent issue of the scientific journal *Genetics*.

The finding will be most beneficial to white wheat production, which loses \$1 billion annually to preharvest sprouting, according to Gill.

He said consumers pre-

fer white wheat to the predominant red wheat because white wheat lacks the more bitter flavor associated with red wheat. Millers also prefer white wheat to red because it produces more flour when ground. The problem is that white wheat is very susceptible to preharvest sprouting.

“There has been demand for white wheat in Kansas for more than 30 years,” Gill said. “The very first year white wheat was grown in the state, though, there was rain in June and then there was preharvest sprouting and a significant loss. The white wheat industry has not recovered since and has

been hesitant to try again. I think that this gene is a big step toward establishing a white wheat industry in Kansas.”

Gill said identifying the PHS gene creates a greater assurance before planting a crop that it will be resist-

Continued on page 9

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Photo by Tharron Gaines

Study identifies PHS gene

Continued from page 8

ant to preharvest sprouting once it grows a year later. Wheat breeders can now bring a small tissue sample of a wheat plant into a lab and test whether it has the preharvest sprouting resistance gene rather than finding out once the crop grows.

Much of the work to isolate the PHS gene came

from Gill and his colleagues' efforts to fully sequence the genome — think genetic blueprint — of common wheat. Wheat is the only major food plant not to have its genome sequenced. The genome of wheat is nearly three times the size of the human genome.

Researchers were able to study sequenced segments of the common wheat

genome and look for a naturally occurring resistance gene. Gill said without the

sequenced segments, finding the PHS gene would have been impossible.



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LAND AUCTION

TUESDAY, SEPTEMBER 17 — 10:00 AM

80 ACRES NEMAH COUNTY FARMLAND

The Willows Restaurant — SENECA, KS
Description: West ½ South East ¼ Sec. 34 Twp 03 Rng. 12 east of the 6th P.M. This tract consists of approx. 80 acres of that 75.61 acres is cropland, currently in CRP till Oct of 2014. The annual CRP payment is \$4266.00. The balance of the farm is waterways and wildlife habitat. This farm is gently rolling with primarily Pawnee clay loam type of soils. This farm is in compliance with all NRCS requirements at this time. This farm has been in the crp program since 2000 and the grass is well established.
Directions: The property is located from the intersections of Hwy 36 & Hwy 63 just east of Seneca Ks. Go 7 miles south on Hwy 63 to 96th rd. then 1 ¼ miles west on 96th rd. This is the south east corner of the property that will be selling. This property lies on the north side of the road watch for the signs.

Terms & Possession: 10% down day of the sale, balance due on or before Oct. 18th 2013. Seller to pay 2013 taxes. Seller will also retain 2013 CRP payment. The buyer will receive 100% of the 2014 CRP payment. Buyer to receive 100% of mineral rights. Mineral rights are intact. Title insurance, escrow and closing costs to be split equally between buyer and seller. Possession on Closing. This property to be sold as-is. All inspections should be made prior to the day of the sale. This is a cash sale and will not be subject to financing, have your financing arrangements made prior to sale day. Midwest Land and Home is acting as a transaction broker and does not represent either party. All information has come from reliable sources; potential bidders are encouraged to verify all information independently. All announcements made the day of sale will take precedence over any other information. Nemaha County Abstract and Title will be the escrow and closing agent

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Saturday, August 17, was a day of celebration for Gleaner and AGCO Corporation. The morning started with the dedication of a plaque in Nickerson to recognize the birthplace of Gleaner combines. It was here, in 1923, that Ernest, Curtis and George Baldwin developed the industry's first self-propelled combine. The plaque stands in front of a 1930s era pull-type Gleaner combine. On hand for the unveiling were (left to right) Bill Hurley, AGCO vice-president, field sales; Bill Baldwin, son of Gleaner founder Ernest Baldwin; Jim Gladden, mayor of Nickerson, and Kevin Bien, Gleaner brand marketing manager.

Photos by Tharron Gaines

MOVING AUCTION

SATURDAY, AUGUST 31 — 9:30 AM

2110 Harper, Dg. Fairgrounds — LAWRENCE, KS

The Grether's are moving and everything must sell to the highest bidder!!

VEHICLE
2003 Chevy Impala LS car, auto, leather interior, sun roof, 4 door (NICE).

WOODWORKING & SHOP EQUIPMENT

Delta Unisaw Tilting Arbor Saw; Rikon Deluxe 10-325 Bandsaw; Steel City Deluxe 40615 Jointer; Jet 16-32 Plus Drum Sander w/custom stand; Hitachi M12V 3 ¼ hp. Router w/custom table; DeWalt DW716 Heavy Duty Double Bevel Compound Miter Saw w/laser light; Heavy Duty Drill Press w/tilt table; Steel City 65200 Dust Collector; Steel City Deluxe 3 sp. Air Cleaner 65105; DeWalt DW744 Contractors Saw w/table; Porter Cable 557 Deluxe Plate Joiner & Tiger Saw; Fein Multimaster kit; Milwaukee Router; Marples wood chisels; bench vice; hammer drill; several other power/hand tools; numerous sizes/styles of wood clamps; squares; levels; hammers; ¼" sawn white oak lumber; white/red oak lumber; Craftsman electric start snowblower; Tora GTS push mower; Stihl FS 56 weed trimmer; Homelite tree-saw; chainsaw; 6/8/20ft. Werner fiberglass ladders. **Woodworking Equipment Is Name Brand & Is In Excellent Condition!!!**

COLLECTIBLES, HOUSEHOLD, OFFICE EQUIPMENT/MISC.

KU Men's Basketball 100 yrs. of Basketball Commemorative chair (Never Sat On!) & poster/book; Stickley Mission oak rocker; oak mission chair;

AUCTION NOTE: David & Karla had many unique items, so there will many surprises to unpack! Very Large Auction Inside Bldg. 21 climate controlled!

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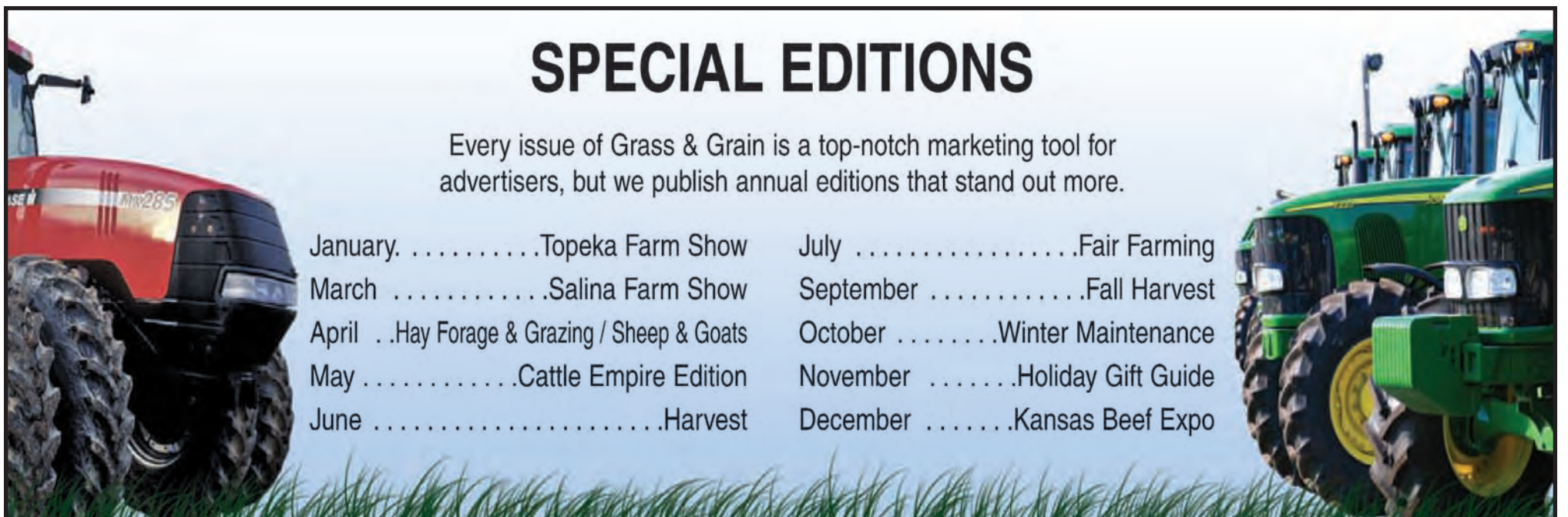
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NovemberHoliday Gift Guide
DecemberKansas Beef Expo



Bechtol wins Industry Achievement Award

When David Bechtol was honored at the 2013 Feeding Quality Forums with the Industry Achievement Award, colleagues and clients caught a glimpse of recent history that laid the foundation for many of the ways they handle cattle health today.

“As one of the very first veterinary feedlot consultants, he evolved with a very young cattle feeding industry as it was starting up and maturing,” John Pollreis said. “The role of the veterinary feedlot consultant grew as the industry did – it went hand in hand.”

Pollreis, now managing veterinarian for beef cattle at Zoetis, started working for Bechtol at the Palo Duro Consultation Research & Feedlot practice in the late 1980s, when the practice had 11 years of work behind it. Bechtol began the consulting business after nearly a decade in general practice in Dimmitt, Texas.

It was in Dimmitt that he realized a different approach to cattle production called for a different approach to animal health. One of the first “bad wrecks” he saw in cattle health was near the first attempt to feed tens of thousands of animals in a confined system – reducing death loss became a very apparent priority.

“I knew at that time I was going to have to get more involved with the total program – not just the individual animal – and really come up with some ideas,” Bechtol said. “All of a sudden, I became a feedlot consultant rather than just an individual animal treater.”

But his influence didn’t stop with the animal.

Bechtol was well known for his human customer service, too, and a knack for connecting with feedlot employees to help them help the animals under their care.

“He’d spend a lot of time working in the feedlot itself, very hands-on, working with the cattle health personnel, helping them identify health problems and medication,” Pollreis said. “Dr. Bechtol is very innovative and service-oriented in his approach to his feedlot customers.”

As he spent more time in

the budding feedlot business, it became clear that more research, data and assistance would be needed to allow the industry to continue to grow in a healthy manner. Bechtol found a solution to that, too.

His “Cattle Accounting System” was one of the original record keeping systems for animal health in the early ’70s.

“With that, we could become more precise in what we were trying to do, what our goals were, and also evaluate our processing and treatment programs and come up with better answers in the feedlot,” Bechtol said. “So we progressed from being an individual animal treater to a person that had computerized records and was setting up goals.”

But even that wasn’t enough to satisfy his desire for data and research-based health decisions. In 1979, he founded a private research facility, Agri Research Center, Inc., to perform research trails in his own scientifically controlled environment.

“Because of his work, we’re making far more objective, science-based decisions on health and how that affects economic parameters within the cattle feeding industry,” Pollreis said.

Since its inception, the research facility has conducted more than 575 trials, Bechtol said, including research on vaccines, antibiotics, implants and more. But he, said, some advances and results from the decades of trials still shine above the rest in his mind.

“The thing I would be most proud of is the way we have been able to set up a Bovine Respiratory Disease complex,” Bechtol said, “And, it set up a model that we can evaluate products that would be repeatable and show good statistical design.”

Larry Corah, vice president of supply for the Certified Angus Beef brand, explained that it wasn’t just Bechtol’s desire to acquire animal health data that made him unique in those early years, but his interest in then sharing it for the improvement of the entire industry.

“He played a key role in

not only working with those feedlots, but also knowing that data needed to be collected and shared,” Corah said. “Having that documentation – and also the analysis of what problems they may have had – allows them to create health procedures that played off past issues and dictated future health programs. That was huge in developing the feedlot business.”

As a charter member, first president and now lifetime member of the Academy of Veterinary Consultants, Bechtol used that data and information to bring the young, emerging industry together.

“When we graduated from veterinary school back in the mid- to late-’60s, we weren’t taught feedlot medicine on a routine basis. So there were several of us who got together and said, well, we need to exchange some ideas on, what are you doing here? How are you doing that?” Bechtol recalled. “Now the Academy has grown from that original 11 or 12 people to over 750 veterinarians and more than 40 states involved.”

Bechtol is also past president of the Texas Veterinary Medical Association, American Association of Bovine Practitioners, American Society of Agricultural Consultants and committee and council member in the American Veterinary Medical Association.

“In every profession there is an identified leader, a pioneer, an individual who is really looked up to by the profession,” Corah said. “David Bechtol is truly one of those industry leaders. You always hear a positive response to the mention of his name, not only because of his incredible skill set, but also for his leadership in the industry.”

Bechtol was honored at the seventh annual Feeding Quality Forum Aug. 20 in Omaha, Neb., and Aug. 22 in Garden City, where he shared insights with the audiences.

“He’s shown us all what a good veterinarian looks like,” Pollreis said. “He really set the stage for subsequent vets to see a very ethical, service-oriented, high-integrity approach to veterinary medicine.”

K-State’s Beef Stocker Field Day Sept. 26

Presentations on beef stocker economics to environmental impact to cattle health and more are planned for Kansas State University’s 2013 Beef Stocker Field Day on Sept. 26.

The day begins with registration at 9:30 a.m. and the program at 10:15 a.m. at K-State’s Beef Stocker Unit located on West Marlatt Ave. on the west side of Manhattan.

The program features industry and university speakers from Nebraska, Oklahoma and Kansas, as well as a producer panel discussion. Presentations include:

- The 30,000-Foot View: What’s in Store for the Stocker Program;
- How Can Your Stocker Operation Fit;
- Receiving Health Programs – Are They the Same as Five Years Ago;
- Environmental Impacts on Beef Stocker Health and Wellness;
- Carry-Over Effects of Stocker Cattle Systems on Feedlot Performance and Carcass Characteristics; and
- Producer Panel: Do Flint Hills Stocking Rates Still Apply?

The fee to attend, which includes all presentations, a barbecue brisket lunch and the Cutting Bull’s Lament, featuring prairie oysters and Call Hall ice cream to wrap up the day, is \$25 if paid by Sept. 15 or \$35 if paid at the door. More information, including online registration, is available at www.KSUbef.org. More information is also available by contacting Lois Schreiner at lschreiner@ksu.edu or 785-532-1267.

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AUCTION



SUNDAY, SEPTEMBER 1 — 12:30 PM

MORRIS COUNTY 4-H BUILDING, 612 US HWY. 56 • COUNCIL GROVE, KS

DIRECTIONS: 1 mile east of Council Grove on US Hwy. 56. **WATCH FOR SIGNS.**

GOLF CART & LAWN ITEMS

EZ Go gas golf cart, runs good; Swisher trimmer on wheels, 6.5hp, good; small wagon on steel wheels; small garden tiller; 2 wheelbarrows; concrete yard art; various hand tools.

COLLECTIBLES

Nice selection of green, pink, amber, & yellow depression; walnut wall clock, turn of century, complete; several crocks; powder flask; Boy Scout items; doll buggys; James Jewellery brass flatware, large set in unique case, unusual; lard press; 2 wash tubs; vintage computer baseball game; vintage Ansco box camera; punch bowl set; vintage dealer’s choice game;

brown crock cookie jar; aluminum syrup pitcher; lunch pail; weather station in box; silver plate serving tray; set of Sears 100 year anniversary drinking glasses; microscope in case; Louie L’Amour westerns; vintage Xmas ornaments; various glassware; beer items

FURNITURE, APPLIANCES & MISCELLANEOUS

Oak side board, curved front, beveled mirror, good condition; Kemp oak kitchen cabinet, with flour bin in drawer, good condition; RCA Victor console radio tube type, case good; Western Cottage pedal organ, walnut, original bellows, excellent condition; organ stool, glass ball claw

feet; oak & walnut davenport chest, leather top, burl fronts, side drawers with carved pulls, unique and in excellent condition; oak curved glass china cabinet, very good; oak dresser & mirror; large oak bound trunk with tray, good condition; baby bed; single & full size beds; oak ice box, 2 compartment, from the Hays House, good; dry sink; small round claw foot table; chest; dry sink; end tables; 1940s trunk; slate topped pool table; dining table with 4 chairs; table tennis net & paddles in box; upright freezer; patio glider; metal patio table & chairs; iron rocker; 2 Lazy Boy recliner, good; oak coffee and end tables.

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AUCTIONEER’S NOTE: This is as nice of offering of antique furniture that we have had in some time along with some unique collectibles. Everything is in good condition with lots of quality items.

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Kansas Rural Center sets 2013 Farming & Food Conference for Nov. 2 in Newton, announces early bird exhibitor opportunities

Farmers, ranchers, community food organizers, wildlife enthusiasts, land-owners and others interested in farming practices and our local food system will want to reserve Saturday, Nov. 2, for a day of workshops and networking at the Kansas Rural Center's 2013 Farming and Food Conference.

This daylong event will take place in Newton at the Meridian Center, 1420 E. Broadway Ct., and will be packed with opportunities to learn about topics such as low-input farming alternatives, diversification for risk management, soil and animal health, local foods development, health-agriculture connections, beginning farmer and rancher resources, farm legacy transitions for landowners, state and federal farm and food policy, and much more.

This conference is an annual event presented by the Kansas Rural Center, in partnership with organizations including the Kansas Center for Sustainable Agriculture and Alternative Crops and Kansas Sustainable Agriculture Research & Extension.

Companies and organizations interested in reaching attendees from across the farming and food spectrum — including family farmers, ranchers, conservationists, wildlife advocates, food activists, chefs, health practitioners and more — can sign up for Expo sponsorship at an Early Bird rate of \$200 until August 30, when the rate will rise to \$250. Exhibitors will receive listing on the conference program, a link from the conference page on the KRC website, and an opportunity to provide materials to attendees. In addition, a limited number of booth spaces are available on a first-come, first-serve basis.

A formal announcement with keynote speaker information, the day's agenda, and registration information is expected in early September.

KRC's previous conference, held in 2011, focused on topics related to the theme, "Options, Opportunities and Optimism: Cultivating Our Farm and Food Future," and featured workshops on grazing, soil health, value-added foods marketing, food policy councils and community food organizing, and more. More information about that conference is available at <http://kresustainabilityconference.blogspot.com/>; conference presentations are available at kansasruralcenter.org.

In 2012, KRC presented the Healthy Farms, Healthy People, Agriculture and Health Summit, which launched a dialogue in Kansas about issues surrounding the intersections of health, public health, food and agriculture. Farmers, ranchers, health professionals, grocers, chefs, school and government officials were among those who attended. The Summit was supported by the National Network of Public Health Institutes and Centers for Disease Control, and the Blue Cross Blue Shield of Kansas Foundation. The Kansas Rural Center 2013 Farm and Food Conference will follow up on some of the conversations initiated at last year's event.

Expo exhibitor spaces can be reserved by contacting Executive Director Julie Mettenburg at 785-393-9996 / juliemettenburg@gmail.com. Additional 2013 conference details will be released as they develop and can be found by visiting www.kansasruralcenter.org, or by contacting Event Coordinator, Natalie Fullerton at nfullerton@kansasruralcenter.org, or 402-310-0177.

REAL ESTATE AUCTION MONDAY, SEPTEMBER 16 — 7:00 PM

5 m. West of BURLINGAME, KS on Hwy. 31, 1/2 North on Crawford Rd.

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TRACT II: 143 1/2 Acres +/- consisting of 78 acres +/- tillable, balance pasture & hayable. In NW1/4 12-15-13E, Osage County, KS.

TRACT III: Combination of Tracts I & II.

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LIVING ESTATE AUCTION MONDAY, SEPTEMBER 2 — 10:00 AM

Flint Hills Auction at Bluestem Hall
646 Road 180 — EMPORIA, KANSAS

Glassware/Collectibles: Various colors depression glass: Green: 6 refrigerator jars, cookie/flour canister, 3 shakers, mixing bowls, set of 6 nested mixing bowls, butter keeper, large open rose bowl, plus much more; Yellow: (approx 85 pieces) almost complete setting of 8; Floral Gold: (approx. 75 pieces) includes punch bowl, batter dish, 8 place setting of 6 pieces, plus

much more. Franciscan, white w/silver trim: setting of 8. Valencia gold (22kt): 100+ pc, includes punch bowl. Rosepoint Cambridge: over 100 pcs. Set of Contillion dishes set. Fenton- over 50 pieces. Oatmeal/Sandwich glassware: 100 pc green & 50 pc clear. 75 pc Tirea brown glassware. **Antiques:** Victorian walnut parlor love seat.

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Consider turnips for fall and winter grazing

By Jody G. Holthaus,
Meadowlark Extension

District Agent, Livestock-Natural Resources

With all the precipitation we are getting, are you interested in a high quality pasture for late fall and winter grazing? Then plant turnips into wheat stubble, lots or any other idle ground. This is one way to get more grazing and allow fall pasture recovery. Turnips provide good grazing beginning in October and often lasts into the new year.

Turnips are cheap to plant since bulk seed can cost less than ten dollars per acre. And late July to early August is the time to plant turnips for fall grazing. Seedbed preparation and planting can be done several ways but do not plant turnip seeds too deep. If planting no-till, spray glyphosate to control weeds first. Good early weed control is essential. Turnips do poorly if weeds get ahead of them, but once started, turnips compete very well.

Plant only two to four pounds of turnip seed per acre. Turnip seed is very small, so barely cover it. If you drill your seed, just scratch the surface with your openers. Some people will plant rye or wheat along with the turnips for more grazing.

Animals grazing turnips in the fall and winter usually consume a diet that is 10% to 14% crude protein and 70% to 85% TDN, and fresh turnips are 80% to 90% moisture. So it is like having corn, alfalfa, and a

river for cattle to graze. With that much water, they may not want to drink from a tank all that often, but you need to have water available. It may be important to have palatable dry roughage available for cattle that are grazing turnips to slow passage of nutrients through the digestive tract. Also, provide a complete trace mineral salt supplement, making sure it contains iodine.

There can be a few issues with turnips in beef animals but these problems are rare and are reduced or eliminated with management. To begin, don't shift cattle onto turnips suddenly. Adjust them by feeding high quality hay or pasture for a couple of weeks before turnips to prepare their rumen for the high energy and protein in turnips. Giving them just a few hours access to turnips at the start also helps. Some producers will feed some dry roughage along with turnips. The roughage is usually low quality like corn stalks or lower quality grass hay. This also helps reduce loose stools, which is common with turnips.

Choking can occur; it's not very common, but it does happen. Producers who have experienced this problem with their cattle indicate they usually can remove the plug by forcing the turnip down the animal's throat. Not pleasant, but it works.

Turnips are an excellent feed resource for cattle and, with the extra moisture this year, an excellent consideration.

Governor's Water Conference to be held Oct. 24-25

The Kansas Water Office is excited to announce the Governor's Water Conference will be held Thursday, October 24 and Friday, October 25, 2013 at the Hilton Garden Inn & Conference Center in Manhattan.

The Governor's Conference on the Future of Water in Kansas will highlight the latest policy and research developments of water issues in Kansas. Many great speakers and topics are planned; a few are highlighted below.

• Charles Fishman will be discussing the value of water. The author of two bestselling books: *The Big Thirst* and *The Wal-Mart Effect*, he speaks nationally on economic and social issues.

• Pat Mulroy, who oversees the Las Vegas Valley

Water District and Southern Nevada Water Authority, will talk on drought management.

• Dr. James Stack, director, of the Great Plains Diagnostic Network and Professor of Plant Pathology, KSU, will speak on day two.

Day one includes topics such as drought resiliency and conservation, the value of water and meeting Kansas water needs. Day two will build on the water policy discussions from the previous day with technical presentation posters and talks.

Legislators, water managers, scientists, state, federal, city and county administrators as well as organizations, irrigators and citizens who share an interest in Kansas water

resources are encouraged to attend.

Registration is now available online at www.kwo.org. The registration deadline is October 15. Conference details, brochure, speakers and sponsors can be found online as well.

The Governor's Conference on the Future of Water in Kansas is co-sponsored by the Kansas Water Office (KWO) and K-State /Kansas Water Research Institute. Sponsors for the event come from multiple diverse water in-

terests. Major sponsors for the event include Black & Veatch, Burns & McDonnell and Great Lakes Dredge & Dock.

If accommodations are needed for persons with disabilities, please notify the KWO, (785) 296-3185, at least five working days prior to the meeting.

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VINTAGE FURNITURE

Victorian red settee; Victorian dresser w/marble top & hankie boxes; Barley twisted leg re-fractory square dining table w/6 matching chairs & buffet; pie cupboard; oak dresser w/hat box; fancy secretariat desk; oak oval dressing mirror; hanging lamp; hall table; wooden high chair; rocking chair; oak beveled mirror; Singer treadle machine; cedar chest; & more.

MAYTAG COLLECTION

1930's Butter Churn (RARE!!); 10+Single & Twin Kick Start Hit Miss Engines; Wringer Washing Machines; Meat Grinders; Oil Cans; Quart Jars; Glass Cheese Pressers; Cookbook; Appliance Pictures. (*Great Chance to Buy Some Unusual Maytag Items!!*)

COLLECTIBLES & MISC.
Fairbanks Morse 1 1/2 hp. Z Hit Miss Gas Engine; #4 Crown crock water cooler w/lid; #8 Ruckels crock & other crocks; #8 Dazey butter glass churn; wooden butter churn; Skelly

Oil/Grease can collection; Skelly 1 cent postcard; #5 tax commission coin; 1994 double head quarter; yardstick collection; NAPA truck collection; washboards; comic books; marbles; old dominoes; oil lamps; Denim Day's figurine/plate/picture; **GLASSWARE:** 100's of pieces (NO CHIPS OR DAMAGE!!) 12 piece place setting & extras German Rosenthal Pompadour (beautiful set!!), several sets of Ruby Red, extras of Ruby Red, large amount of clear Fire King, Fire King game dishes, Iris Herringbone pitcher w/6 tumblers, blue compotes, Fenton pieces, 17in. Fenton vase, Wexford pieces, Red & Wexford punch bowl sets, many unlisted glassware pieces; Coors & Schlitz pitchers, glasses; turquoise necklaces; canning jars; table lamp; Maple full bedroom suite (bed, dresser, chest); leather double recliner couch; coat rack; computer desk/chair; holiday décor; hand/garden tools; numerous items too many to mention!!

AUCTION NOTE: This is an outstanding chance to buy the most upmost quality Vintage Furniture & Collectibles as Walt & Pat always purchased the unusual & quality items and have decided to downsize, so do not let this opportunity miss you!!!

CONCESSIONS: N. Osage 4-H Citizenship Washington Focus Group

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HOME & PERSONAL PROPERTY AUCTION SATURDAY, AUGUST 31 — 9:00 AM

Auction Location: 627 Market St. — PORTIS, KS

FURNITURE: Nice Victorian couch; end table; oak library table; oak rocker; oak lamp table; nice glassfront bookcase; occasional chair; old Examination table; 4 poster king size bed; oak TV stand; 5 drawer chest w/mirror; leather recliner chairs; bookcases; oak desk; square oak table w/ leaves and (6) chairs; stools; 4 drawer oak file cabinet; newer S Roll Top desk; office chair; Acorn Pull night stands; Trundle bed; mission oak chair; Jwin Radio on stand; nice oak hotel dresser; 1/2 table; twin beds; Serpentine front dresser w/ mirror; record cabinet; divan and loveseat; sewing machine cabinet; rocker; nice ladies secretary; TV Entertainment center; church pews; misc. chairs; Deacon bench; Singer Treadle sewing machine; nice oak buffet w/ mirror; Hoosier cabinet; parlor chairs; kitchen cabinet; iron bed; stepback cupboard; automatic ice box, etc. **APPLIANCES. TOOLS. MISCELLANEOUS HOUSEHOLD ITEMS. ANTIQUES, PRIMITIVES, AND COLLECTIBLES:** Green and Purple Cresses pieces; brass bottom lamp; Homer Laughlin china set; Thomas Kinkade pictures; Bridge lamp (possible Aladdin); old picture; books (Adolph Hitler, Victory in Europe, Louis Lamour Complete Novels, History of U.S., Time Life books series, Bible study books, etc.); Westmoreland Condiment set; Bohemina Pickle jar; Fostoria vases; Green Depr.; salt dips; cookbooks; cobalt glassware; wood type cases; shoe polish stool; sled; golf clubs; Opalescent Hobnail dish; galvanized tubs; small silver Indian bracelet; Indian silver & Turquoise Squash Blossom necklace; Sterling flute player Turquoise necklace; Sterling and Turquoise bracelet (signed TL); silver & Bluestone bracelet; Turquoise and silver ring; Indian silver bracelet; Indian silver & Turquoise Concho belt (signed RS); Sterling silver bracelet; Indian silver & Turquoise belt; Bear Claw earrings (Blue Stone, Indian Silver); Circle JW Sterling & Turquoise bracelet; Blue Stone & silver bead necklace; Sterling & Turquoise w/ Coral Eagle Dancer Bolo Tie (signed H. Boyd); 1931 Maxfield Parrish picture; Dale Evans wristwatch; corn sheller; lots of comic books (#1 15 cent Dark Shadows, 10 cent Katy Keene, 12 cent Archie series); Dazey Churn set including old 1 qt.; Sunbeam mixmaster churn; vintage Mixmaster mixer w/ bowls; Adv. Coca Cola thermometer; Dazey Sharp it; wooden spoons; butter molds; butter bowls; paddle; washboards; coffee tins; small knife collection; and more.

BARBRA AND THE LATE BILL TEBOW

SALE CONDUCTED BY: WOLTERS AUCTION & REALTY

Col. Jim Wolters, Broker & Auctioneer
Col. Rich Fairbanks, Assisting Auctioneer
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University to lead world's first NSF-established research center for wheat

The National Science Foundation has named Kansas State University as its lead institution for the world's first Industry/University Cooperative Research Center on wheat. The premier center, named the NSF I/UCRC Wheat Genetics Resource Center, is the first National Science Foundation-established research center for any crop plant. It will focus on improving the food production and disease resistance of wheat and other crop plants, as well as serve as a training hub for graduate students and young researchers.

Currently, there are 61 National Science Foundation Industry/University Cooperative Research Centers, most of which are devoted to engineering and electronics.

"We're thrilled that Kansas State University is recognized as an international leader in securing and improving major food sources that are vital to feeding the world's growing population," said Kirk Schulz, university president. "This decision by the National Science Foundation and the support of our industry partners underscores the expertise and talent at Kansas State University. It is a significant milestone in being recognized as a Top 50 public research university by 2025."

The National Science Foundation center will be divided between Kansas State University and Colorado State University, with Kansas State University serving as the lead institution. Bikram Gill, univer-

sity distinguished professor of plant pathology and director of the university's Wheat Genetics Resource Center, will serve as director.

Collaborators include Kansas State University's departments of agronomy, plant pathology, entomology and grain science and industry; the U.S. Department of Agriculture's plant science and wheat genetics units; the Kansas Wheat Commission; the Kansas Wheat Alliance; and multiple corporations, including Bayer CropScience, Syngenta, Limagrain, Dow AgroSciences LLC, General

Mills and the Heartland Plant Innovation Center.

The National Science Foundation awarded a seed grant to start the research center, with the stipulation that at least three industry partners had to join and financially back the center. According to Gill, ten companies signed on as partners.

The Kansas-based research center will be largely based at the Kansas Wheat Innovation Center in Manhattan, where scientists will conduct research on wheat germplasm improvement, using the wheat gene bank of the Wheat Ge-

netics Resource Center.

Both the gene bank — which maintains about 14,000 wild wheat species strains and about 10,000 genetic stocks — and its accompanying laboratory will relocate to the Kansas Wheat Innovation Center, Gill said. Several postdoctoral research fellows also will transition to the building.

According to Gill, the research center creates unprecedented opportunities for graduate students and postdoctoral researchers to work alongside industry partners and academic scientists, as well as to devel-

op new genetic research that could immediately improve food security and safety.

"It's really a win-win for all involved," Gill said. "It's good news for Kansas State University because it's taking one of the university's big strengths and using it to improve food supplies, food safety and the economy, and train future scientists. It's good news for businesses that are interested in improving their wheat growing and breeding efforts. They will be able to use this research to accelerate those areas. We see this as very, very exciting news."



Kansas juniors won first place overall in the intermediate other beef division of the All-American Certified Angus Beef® (CAB) Cook-Off at the 2013 National Junior Angus Show (NJAS), July 5-11 in Kansas City, Mo. Pictured front row is Chelsey Figge, Onaga. Back row from left are Grady Dickerson, Paradise, and Caleb Flory, Baldwin City. They prepared "Killer Bacon-Cheese Dogs" and also claimed first place in the recipe category. The American Angus Auxiliary sponsored this event.

Photo by Laurin Spraberry, American Angus Association



Kati Fehlman earned grand champion honors and Kyler Langvardt took home reserve champion honors in the Geary County Free Fair round robin livestock showmanship contest.



Macey Langvardt earned grand champion sheep showmanship honors at the Geary County Free Fair.

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REAL ESTATE AUCTION

SATURDAY, SEPTEMBER 14 — 10:00 AM

Legion Cabin — FRANKFORT, KANSAS
266 ACRES M/L MARSHALL COUNTY, KANSAS

PROPERTY LOCATION: 1672 Tumbleweed Rd, Frankfort KS. - 4.5 miles west of Frankfort on Tumbleweed Rd.

LEGAL: SE ¼ 10-4-8 & NE ¼ lying South of creek 10-4-8 Marshall Co. KS

FSA has 118.52 acres DCP cropland. Presently 106.4 acres are being cropped. 8.70 acres are in CRP. 6.2 ac. CRP @ \$75.39, out in 2019. 2.5 ac. CRP @ \$65.00, out in 2020. Remainder clean grass & farmstead. Great farmstead site with a 72 X 28 open front building built in 2011, an open front cattle shed finished in 2013 and other out buildings. Also there is an older two story house being sold as a demolition unit without an environmental sanitation inspection.

90.5 acres is Wymore soil - located on county road - good well water and spring fed pond - three total ponds. Clean, well-cared for farm.

Terms & Conditions: 10% down day of auction, balance on closing. Closing on or before October 25, 2013. Possession at closing subject to present tenants' rights. Possession of grass land at closing. Land is open for 2014. At the sellers option either abstract of title or title insurance will be used. Title insurance will be split 50/50. Certified abstract will be paid for by sellers. Sellers will pay all of the 2013 taxes and will retain all of the 2013 crops and payments. All of the 2013 CRP payment will be retained by sellers. 2014 CRP payment will go to buyer. Buyer agrees to assume and transfer CRP contract into their names.

Note: Joe Horigan Realty & Auction Co. is acting as an agent for the Sellers and not as an agent for the buyer. Property is selling in its present existing condition. Make all inspections and inquiries before auction. Sale is not contingent upon buyer financing. Information obtained from sources deemed reliable but not guaranteed. Not responsible for accidents.

SELLER: JOE & JEAN WARDERS
JOE HORIGAN REALTY & AUCTION CO.
785-292-4591, cell 785-250-5148
website: www.jhorigan.com

ANTIQUE AUCTION

MONDAY, SEPTEMBER 2 — 10:00 AM

Auction will be held in Kenwood Hall at the Saline Co.
Expo, 900 Greeley **SALINA, KANSAS**

CARS

1973 Chevrolet Monte Carlo, 454 engine, 400 trans, air, auto, power swivel bucket seats, complete restoration and motor 20,000 miles ago; 1954 Hudson Jet 4 dr. low mileage, driver side damaged (has been in garage); 1955 Hudson Hornet complete w/continental kit, V8, auto; Parts cars inc.: 1954 Hudson Wasp; 1953 Hudson; 1948 Hudson Commodore body; 1953 Hudson Wasp body; 1948 Hudson Super Six body; 1948 Hudson coupe body; 1968 T bird 429 engine. The cars are from the Max Reiter Estate.

POPCORN MACHINE & SIGNS

Cretons model A 4 wheel popcorn & peanut machine; SIGNS: 6' porcelain Case eagle on world; wooden Case, Plafayette Nash porcelain; Champlin square double sided early, Phillips 66 double sided w/frame; Texaco double sided w/frame, Northwestern National sign; Blankes tin coffee sign (Blankes was whiskey changed to coffee); Hickman-Ebbert tin wagon sign original; 3' Budweiser tin bottle; Coke mirror; Coke chest cooler WF6 style 1379208; Budweiser clock & mugs.

STORE FIXTURES, FURNITURE, CROCKS & COLLECTABLES

98 drawer pine octagon screw cabinet; 8'x7' oak stacking store cabinet; Potters silk cabinet; 18 drawer pine seed cabinet; KC 3' oak 3 shelf showcase; oak 8' showcase; 6' table top showcase; Parker Pen 6' x 7' display; 15 drawer tall spool cabinet; Gargoyle

Mobiloil service station work cabinet; Anco wiper cabinet; Keen Kutter oak cabinet; Rit Dye cabinet; showcases needing repair; Shafer's pin cabinet; Timex cases; Simplicity pattern cabinet; brass National 312 & 313 cash registers; oak stack bookcases; oak 2 door china w/claw feet & heads; walnut Lincoln desk; early cherry drop front desk w/bookcase; walnut slant front store desk; oak Hoosier cabinet w/jars; oak 3 door ice box; church pew; mahogany shortwave radio & phonograph; ice cream table & chairs & stool; oak prescription boxes; trunks; Singer leather sewing machine; Duncan Phyfe table; pipe display cabinet; pipes; Atwater-Kent model E radio; table top phonograph; 60's designer chairs; Crockers; Red Wing; 1 gal bell top Klondike w/lowa adv; qt. & ½ gal fruit jars; Krug Club mugs; Western Splash proof feeder; Indian pictures, sand painting, bell, vase, pottery turtle, figure; German steins; silver plate items; 2 Marlow woodcuts; 1954 Mercedes model; car models; 40's, 50's & 60's farm implement advertising paper; belt buckles; WWI hat & items; Nazi items; 98K bayonet; British dagger; WWI 30 ca ammo box; coin silver FT Duchesne Utah UTE police badge; Navel ships bell; WWII Korean sub plaques; Navy pilots uniforms; military prints; mustache cups & shaving mugs; Lucite paper weights; Fiesta; 1930 hunting & fishing magazine's; 1930 Field & Stream, other magazines; 50's bike; tobacco tins; collectible toys; levels; wooden levels.

See last week's Grass & Grain for full listings.
Very quality auction with many unusual items. For pictures at www.thummelauction.com.

Auction Conducted By:
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Boulder businessmen targeting farmers with drones

(AP) – Two Boulder, Colorado businesses are hoping to bring pioneering drone technology to the age-old business of farming – if only federal regulators will let them out of the barn.

InventWorks and Boulder Labs have developed a drone they believe could revolutionize the multibillion-dollar business of agriculture, by offering farmers precise location of weeds that require suppression far more efficiently than could be achieved by any other means.

To some they are known as unmanned aircraft systems, and to others they are autonomous aerial vehicles, but in headlines they are drones. And for many, anything with that label smacks of lethal military strikes or spying.

"In the area of drones, when people are horrified, it's because they assume it's only a military technology, and they say, 'They should be illegal,'" said Tom McKinnon, managing director of InventWorks. "But when you ask should they be available to help out in the search for a missing child, they say, 'Oh, that's a good idea.' As long as the scary stuff is off the table, such as weaponizing drones, generally, the public is in favor of it."

Jim Sears, head of new product development at Boulder Labs, added, "The fact that we're in an agricultural application area takes away a lot of the concerns about privacy, which is what a lot of people have. This is not going to threaten people's sense of privacy, and doing a precision drone strike on weeds sounds like a good thing."

It's not yet known what the two companies' business model will look like once they can hang out a shingle and charge farmers for their service. Nor have they decided under what business name it will operate.

And, to be precise, they are not offering "drone strikes" on weeds. Instead, they are developing a four-pound, six-foot-wingspan drone equipped with multispectral cameras that can capture high-resolution, geo-tagged photographs

every few seconds. Those images are then transferred to a ground-based computer where they are merged to create a continuous image of a large farming operation.

The data is processed into image recognition computer algorithms that can recognize features as precise as individual weeds and tie them to GPS coordinates.

By allowing farmers with large acreage to know precisely where the weeds are, they believe farmers can save up to 80 percent per acre on herbicide-based weed suppression.

They have tested their product primarily with a farmer whose dryland operation in northern Montana is nearly the size of Manhattan Island.

"He simply doesn't have the ability to drive around and look," McKinnon said. "By the time he got done, the weeds would be taking over his crop."

The greatest hurdle to InventWorks and Boulder Labs launching their venture is the Federal Aviation Administration, which is under a congressional mandate to incorporate drones into the national airspace by Sept. 30, 2015.

There is a long list of business interests eager to see the FAA finalize a regulatory structure. According to the Association for Unmanned Vehicles International, an Arlington, Va.-based trade group, the first three years of drones' introduction into the national airspace would see \$13.6 billion in economic activity and 34,000 new manufacturing jobs. The FAA has estimated up to 10,000 drones could be airborne in the U.S. within five years.

Once the FAA greenlights their broader commercial use, drones could become commonplace over large farms.

"Absolutely, agricultural applications are at the top of the list of activities or applications that could immediately benefit from a change in the regulatory process – in part because it's such an obvious application," said Brian Argrow, cofounder of the Research and Engineering Center for

Unmanned Vehicles at the University of Colorado.

"You have large expanses of land in which you are trying to make relatively small, precision measurements, typically through some sort of photography or something. It's much more efficient to do that from a relatively low altitude with a small, low-flying aircraft."

Under current law, there are two ways to get FAA approval to operate an unmanned aircraft system, or UAS, as the government calls them. One is to obtain an experimental airworthiness certificate. The second is to secure a "certificate of waiver or authorization," which are typically awarded to public entities such as law enforcement (the Mesa County Sheriff's Department has one), CU and other universities, or to governmental operations such as firefighting or border patrol.

InventWorks and Boulder Labs have been testing their drone technology under a third umbrella – a "grey area," as McKinnon puts it – flying, essentially, as hobbyists, which is permitted if the aircraft remains under 400 feet and steers clear of airports and crowds on the ground.

"Us and thousands others are flying under the recreational exemption," McKinnon said. "Since we're not being paid, we're kind of like hobbyists. The FAA has only told people to stop in a really small number of cases, and that's where people were egregiously flying over crowds."

In this time of waiting for new federal regulations to be finalized, McKinnon and Sears continue to fine-tune their product and develop a suite of potential clients, both inside and outside Colorado.

"If it was legal today, we would not be ready, so we

do need some development time," McKinnon said. "But we won't need two years of development time. We would be easily ready by the 2014 spraying and growing season."

The reality is that the federal guidelines may not be completed until just after the 2015 season.

"We're going into this expecting to have to wait out two (more) growing seasons without making any money,"

said McKinnon, admitting that having to do so would be "not great."

Argrow, the drone expert at CU, said McKinnon and Sears have plenty of company across the country, with countless entrepreneurs increasingly anxious to put drones to greater commercial use.

"This is a very pent-up potential industry," Argrow said. "It has been, for years."



Brady Jensen, Courtland, left, claimed fifth place showmanship honors at the 2013 National Junior Angus Showmanship Contest, held in conjunction with the National Junior Angus Show (NJAS), July 5-11 in Kansas City, Mo. American Angus Auxiliary Advisor Anne Lampe, right, presented the Silver Revere bowl. The top five winners also received a monetary award from the Ham James Memorial Fund.

Photo by Carrie Heitman, American Angus Association



MacKenzie Flory, Baldwin City, left, claimed second place showmanship honors at the 2013 National Junior Angus Showmanship Contest, held in conjunction with the National Junior Angus Show (NJAS), July 5-11 in Kansas City, Mo. American Angus Auxiliary president-elect Cortney Holshouser, right, presented the Silver Revere bowl. The top five winners also received a monetary award from the Ham James Memorial Fund.

Photo by Carrie Heitman, American Angus Association

LABOR DAY AUCTION

MONDAY, SEPTEMBER 2 — 9:30 AM
705 N. Arapaho St. — WICHITA, KS
(W. Central & I-235 Exit, 2 Blocks West)
PREVIEW SUNDAY SEPT. 1, 1:00-5:00

COINS SELL AT 9:30 AM. Check www.auctionspecialists.com for full list! CYCLES & VEHICLES, HOUSEHOLD, TOOLS & SHOP, MODEL T & A PARTS, FORD PARTS, CYCLE PARTS, COLLECTIBLES

See last week's Grass & Grain for listings

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REAL ESTATE AUCTION

FRIDAY, AUGUST 30 — 10:00 AM

Auction Location: At the National Guard Armory at 12th & Bridge Streets CLAY CENTER, KANSAS

LEGAL DESCRIPTION: NW ¼ of Section 26, Township 6 South, Range 3 East in Clay County, KS 146.24 Acs. tillable, 7.32 acs. waterways and conservation work is done. Excellent farm for today's modern machinery.

DIRECTIONS TO PROPERTY: 8 miles North on Highway 15 then 3 miles East on 27th Rd. to the intersection of 27th Rd. & Quail Rd. Southeast corner of intersection or the NW corner of farm. Or 3 miles East on Highway 24 to Quail Rd. or (Hayes Church Rd) then 7 ½ miles North to the SW corner of farm. East side of Rd.

See Aug. 6 Grass & Grain for complete info & terms

AUCTIONEER'S NOTE: For aerial maps on land or for an appointment to view the farm, contact auctioneer, Harold Mugler, at 785-632-4994 or home 785-632-3994 or Landmark Real Estate at 785-776-2222.

BROKER & AUCTIONEER: Landmark Real Estate & Harold Mugler, auctioneer, are representing the seller as agents & are not agents for the buyer.

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MACHINERY - ANTIQUES - COLLECTIBLES - HOUSEHOLD

AUCTION

SATURDAY, SEPTEMBER 7 — 10:00 AM
LOCATION: 1463 Matador Road, HOME, KS. From Home City-2 miles South and then 1-1/2 miles West, South side of the road.
LUNCH SERVED

MACHINERY & TRUCKS

1982 White 2-135 Tractor w/Cab, A/C, 6 speed, O-U-D, 6971 hours, 235-2442, SN 299397-415, 18.4R38 Tires – Great Shape; 1967 Oliver 1550 Tractor, narrow front, gas, 6 speed, SN 184711-504, 15.5-38 Tires; 1958 Oliver 770 Tractor, narrow front, w/older loader, gas, SN 64656; 1961 Oliver 1800 Tractor, wide front, gas, SN 11217-886 18.4x34 Tires; 1980 Gleaner F2 Corn Bean Special Combine, w/15 Ft. Header, straw chopper, hume reel, and batt reel, SN FK44828V; Gleaner 313 Flex Head for F2 combine, 13 Ft., SN 3900 FF65229F; 1980 Gleaner L2 Combine, Hydro-traction drive, straw chopper, 23.1X34 Tires, SN LM21830H; Gleaner 20 Ft. Straight Combine Head w/Header Trailer; Gleaner 20 Ft. Flex Head w/Header Trailer; Krause 4309 Disc 13 Ft.; White 508 Four Bottom 16" Plow; John Deere 220 Center Fold Disc, 20 Ft.; Great Plains Solid Stand 15 No Till Grain Drill, w/ Transport Bar and Coulter Cart – Sharp, Sharp; E-Z Trail Gravity Grain Wagon w/Auger on 1074 E-Z Trail Running Gears; Glenco Soil Saver 11 Ft. Chisel; John Deere 24 Ft. Field Cultivator w/Harrow; New Holland 455 Belt Driven 9 Ft. Sickle Mower; Ezee Flow 12 Ft. Fertilizer Spreader; White 18 Ft. Field Cultivator; John Deere 494 Four Row Planter; Pull Type Sprayer w/Pump; Grain-O-Vator 30; 3 pt. Bale Mover; 3 pt. John Deere 709 Shredder; 3 pt. Cement Mixer w/Hyd. Dump; Two Grain Wagons; Two Wide Grain Elevators – Great for Calf Bunks; New Idea Older Manure Spreader; **Threshing Machine w/Pull Tongue, Great Shape, may need bolts;** Old One Row Lister with John Deere stamped on the Planter Box, may have been horse drawn age; 1964 Chevy C50 Grain Truck w/ 13.5 Ft. Bed, 6 cyl, w/Split Shift 4 Speed; 1975 C65 tandem axle gas truck, 13 spd., road range RT613, 20 ft. steel Parkhurst bed, with Sher-lock rollover tarp, extra steel side-boards, good 10:00 X 20 tires; Fuel barrel and stand; Slide-in pickup fuel barrel w/electric pump

ANTIQUES - COLLECTIBLES - CROCKS

Windsor Treadle Sewing Machine; Damascus Treadle Sewing Machine; Lampcrafts American China 22 Karat Gold Hand Decorated Table Lamp; Japanese Vase; **Lots of Old Player Piano Music Rolls in Boxes;** Lots of Old Sheet Music; Old Chinese Checkers Game Board w/Marbles; Radio Cabinet; **32 Volt Cabinet Radio;** Wooden Rocker; Sun Bonnet Fruit Crate; Jewelry; Curling Iron; Old Coleman Gas Iron; Kristee Electric Dusting Brush; Advertisement Pencils; 1974 Unwrapped Sears Catalog; Tudor Plate Silver Silverware in Case; Royal Serving Plate TIOGAY; Royal Serving Plate TIOGASS; Ironstone China Pee Pot; The Enterprise Aluminum Co. Drip-O-Lator; W.S. George Bolero 22 Karat Gold Pattern Dish; USA Serving Platter; Fine Glassware Green Candy Dish; Kids Story Books; Lots of Buttons; Collectible Tins; 1930 - 1970 Sunshine Magazines; 1960 - 1964 Post and Look Magazines; Lots of Old Books; 2 gal. Western Blue Leaf Brown Jug; 5 gal. Red Wing Crock w/Handles; 10 gal. Red Wing Crock w/Handles; 12 gal. Red Wing Crock; 15 gal. Red Wing Crock w/Handles; 8 gal. Blue Leaf Crock; 2 gal. Honey Bee Jug cracked; 2 & 4 gal. Red Wing Crock cracked; Metal Pepsi 6-pack Bottle Carrier Old; Wooden Pepsi 12 Pack Bottle Crate; Wooden Seven Up 12 Pack Wooden Bottle Crate; Plastic Pepsi 6-pack Bottle Carrier; Lots of Old Pop Bottles – Coke, Pepsi, Dr. Pepper, Hodd Dew, and Others Brands; Green Fruit Jars; **Clear glass fruit jars w/glass lids, w/wire hooks;** Old Table Top Radios; Decorative Wooden Upright Armed Chairs on Wooden Wheels; Wooden High Chairs; 1965, 1972 & 1973 MS County Plat Maps; Wood and Metal Runner Sleds; Wooden Post Office Box Cabinet; **Maytag Galvanized Wringer Wash Machine;** Maytag Enamel Ringer Wash Machine; Double Wash Tubs on Metal Stand; Metal Egg Gathering Basket; Enamel Pots; Wooden Bushel Baskets; Old Bottle Copper; Old Cage Mouse Trap; Large Iron Wheel

HOUSEHOLD

Amana Refrigerator w/Freezer; Maytag Gas Stove; Maytag Washer; Sunbeam Microwave; Floor Kitchen Cabinet; Metal Kitchen Table w/ 4 Metal Chairs; Wooden Drop Leaf Table; Desk w/4 drawers; Library Table; Wooden Dressers; 2 Shelf Cabinet; Double Size Wooden Bed; Full Size Metal Bed; Pillows; Bedding; Matching Wooden Chest of Drawers and Dresser w/Mirror; Couch; Recliner Rocker; Wooden Wicker Chair; Computer Desk; Hoover Vacuum; Amana 220 Window Air Conditioner; Wooden Dining Room Table; Wooden Dining Chairs; Folding Tables; Folding Chairs; Folding Stool; Wicker Table Lamp; Floor Lamps; Cooking Pans; Cooking Utensils; Canning Jars; Cake Pans; Toaster; Meat Grinder; Cherry Pitter; Iron Skillet; Metal Wash Tubs; Extension Cords; Aluminum Step Ladder; Oil Lantern; Large Black Kettle; Wooden Drying Racks; Craftsman 14" Chainsaw w/Case; Long Handled Tools; **Hand Tools;** Bolt Bin w/Bolts; Meat Saw; Horseshoes; Army Cot; Chicken Wire; Metal Box Fans; Electric Heaters; Old Post Drill; Post Driver; Post Auger; Grinder; Hay Knife; Battery Fencer; Electric Fencer; One Row Garden Planter; Fertilizer Spreader; Tiller; Moving Cart; Toro Snow Blower

TERMS: Cash sale. Statements sale day takes precedence. Sellers, Auctioneers not responsible for accidents or theft.

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Certified seed doesn’t cost farmers, it pays them

Wheat planting season is just around the corner and determining what seed to use can be a challenging decision for many farmers. As input costs on farms increase, seed selection can make a difference in profit come harvest time.

Planting certified seed encourages seed germination, weed reduction, quality stand establishment and assures varietal purity. Purchasing certified seed allows farmers to get the desired variety with fewer management concerns.

Steve Schuler, director of the Kansas Crop Im-

provement Association, said, “Certified Seed is produced under a system of standards and observation that should give you the best chance at excellent stand establishment. Using certified seed gives you confidence that you will get your crop up.”

Gordon Wiebe, a farmer and certified seed producer from Whitewater makes it a point to use certified seed because he believes in starting with a quality, guaranteed product.

He believes that using certified seed has lowered his input costs. By selecting pure certified seed va-

rieties with strong resistance to rust pressures, Wiebe sees the amount of fungicide and herbicide that he has to spray on his crop each year declining.

“We like to start with a good product because it helps us manage the crop well all the way through,” said Wiebe.

Studies have shown that an added benefit of certified seed can be a boost in yields. Research at Kansas State University indicates that the use of certified seed can increase yields two to three bushels per acre over bin-run seed.

Beyond the benefits of

quality and yield that certified seed brings, labor costs associated with cleaning your own seed can add up.

“If you want to maintain a variety in good condition, you need to take the same steps that a seedsmen takes. This means taking the extra time to clean out equipment, storing the seed in a quality location, and cleaning the seed,” Schuler said.

The Kansas Crop Improvement Association believes planting with certified seed gives a producer confidence that their legal purchase of professionally

produced seed supports research and development that will bring forth the varieties that will be used in the future.

New varieties are developed to provide disease resistance, better performance and higher yields. Planting with certified seed is the only way to obtain access to these pure and new varieties. Quality assurance of certified seed provides clean seed to the producer that has met minimum standards for varietal purity, test weight, germination, amount of inert material, cleanliness and seed size.

Schuler said, “In a wheat crop, seed is not your most expensive input. It seems unwise to me to skimp in the quality of the seed you are planting because you base the success of all your other inputs and income on your farm on that seed.”

To purchase certified seed, log on to www.kscrop.org to find a producer in your area. The Kansas Seed Book, which contains the certified seed directory and Kansas State University performance data can also be found on the KCIA website.

Garden for Good: inmates finding peace, helping community

On about one and one-half acres of fertile Kansas soil, neatly kept rows of tomatoes, cucumbers, peppers, potatoes and other produce greet visitors to the Hutchinson Correctional Facility.

Welcome to the Garden for Good, where 30 inmates — trained as Kansas Master Gardeners — find respite from the harsh realities of life behind bars.

For the past three years, this has been their labor of love. But the Garden for Good is as its name suggests: a symbol of the inmates’ fierce determination to make good with themselves and the local community.

“When I’m in the garden,” says inmate Keith Mathis, “I guess you could say it’s a retreat, away from the animosity, away from the negativity that’s inside the (prison) dorms. It’s not all negativity, but there’s a lot of it, because you know, you’re in prison.

“But you get out here and you put something in the ground, watch it, water it and the next thing you know it’s growing. You’re eating it, you’re taking the seeds and the next year you’re planting seeds that you’ve harvested. It gives you a sense of pride.”

In 2012, the Garden for Good donated more than

6,700 pounds of produce and \$2,500 to such community groups as the Christian soup kitchen and the food bank of Reno County. This year, the group set a goal to donate 10,000 pounds of produce, and donate \$5,000 to area groups.

“We sell (produce) to the inmates here at a price that is a little less than market value on the street, because a lot of these guys don’t make very much money,” said Gary Robbins, president of the garden’s inmate-only board.

“We put that money back into the garden, and whatever we don’t need for the garden, we donate to local groups such as the local Boys and Girls Club, the local sexual assault center, the food bank, (and) several other places.”

Doug Barr, the administrator for the prison, said that inmates came up with the idea of Garden for Good three years ago. Three inmate groups submitted a proposal in which they promised to raise their own money and do all the work.

The prison’s administration approved the proposal, provided the land, and helped to set up classes with K-State Research

and Extension’s Master Gardeners program.

“All of us who have gone through the course are certified Kansas Master Gardeners,” said Victor Mitchell, one of the garden’s original members. Each year, 10-12 inmates are accepted to take the classes, which are taught inside the prison walls by volunteer Extension Master Gardeners.

Mathis likened the Master Gardener classes to a college course. He said the inmates learn how to identify good and bad garden insects; create alternatives to garden chemicals; make compost; take soil samples; and even how to use flowers that attract pests and keep them away from the produce.

“A lot of guys here have never had a garden in their life,” Mitchell said. “They’re probably city kids, but they’re going to have something they can do with their kids and their families when they get out of here.”

Barr notes that some inmates may even get a break when it comes time for a parole hearing. The Master Gardener classes are part of the prison’s program to reward inmates for good behavior.

“Idle time in prison is never a good thing,” he

said. “This gives them an opportunity to keep themselves focused and plan toward the future.

“In a prison setting, you don’t get a lot of opportunity to show that you can be productive, other than a classroom setting. So when you come out here and look at this garden, it speaks for itself. All the hard work and dedication these guys spend each day in this garden to keep it up, it’s a huge task.”

Inmates typically work eight to ten hours in prison detail or, in some cases, a private industry job. Only after that do they get time to work in the garden.

The first year, before they had some operating funds, the garden work included hand-watering

every vegetable plant, often lugging five-gallon buckets of water as much as a quarter-mile.

“I’m not going to lie,” Mathis remembers, “there were times when I’m thinking to myself, ‘What are you doing?’ You burn up, you’re hot, you’re sweaty...but you start seeing the produce or you taste a tomato or taste an onion. You see Ms. Murdock from the soup kitchen and you see the smile on her face when you take her a 55-gallon trash can of tomatoes and they are happy.

“It makes you feel good about yourself.”

Robbins credits the 30 inmates who currently work in the garden.

“I think the big thing is that everybody comes out

and works their tails off and every man is really sincere about our donations and what we do for the outside,” he said.

“A couple of them have told me that this was the greatest single thing they’ve accomplished in their life. I say it’s my second, because I have a son, and he’s first. But this garden, other than that, might be the single greatest thing I’ve accomplished. And I’m proud of this more than anything else.”

Adds Mathis: “When I was out on the street, I didn’t do this. It gives me a tool that when I get out, to grow a garden, to help the community, to help the soup kitchen. It’s about me getting better for myself, and getting better for the (community).”

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<p>CONTINUOUS PANELS</p> <table><tr><td>4 bar 1 1/4" 14 ga 20'</td><td>\$62.00</td></tr><tr><td>5 bar 1 1/4" 14 ga 20'</td><td>\$76.00</td></tr><tr><td>6 bar 1 1/4" 14 ga 20'</td><td>\$85.00</td></tr><tr><td>7 bar 1 1/4" 14 ga 20'</td><td>\$99.00</td></tr><tr><td>4 bar 1 5/16" 11 ga 21'</td><td>\$85.00</td></tr><tr><td>5 bar 1 5/16" 11 ga 21'</td><td>\$105.00</td></tr><tr><td>6 bar 1 5/16" 11 ga 21'</td><td>\$119.00</td></tr><tr><td>7 bar 1 5/16" 11 ga 21'</td><td>\$132.00</td></tr></table> <p><i>Call about custom panels and pre-cut post</i></p>	4 bar 1 1/4" 14 ga 20'	\$62.00	5 bar 1 1/4" 14 ga 20'	\$76.00	6 bar 1 1/4" 14 ga 20'	\$85.00	7 bar 1 1/4" 14 ga 20'	\$99.00	4 bar 1 5/16" 11 ga 21'	\$85.00	5 bar 1 5/16" 11 ga 21'	\$105.00	6 bar 1 5/16" 11 ga 21'	\$119.00	7 bar 1 5/16" 11 ga 21'	\$132.00	<p>PORTABLE PANELS</p> <table><tr><td>10' Standard panel</td><td>\$89.00</td></tr><tr><td>10' Heavy duty panel</td><td>\$99.00</td></tr><tr><td>10' bow gate</td><td>\$199.00</td></tr><tr><td>4' walk through gate</td><td>\$119.00</td></tr><tr><td>3' alleyway frames</td><td>\$60.00</td></tr></table> <p>PANEL TRAILER SETS</p> <table><tr><td>40 piece – standard</td><td>\$4695.00</td></tr><tr><td>40 piece - heavy duty</td><td>\$4995.00</td></tr></table> <p><i>All panels are painted. Call for custom sizes.</i></p>	10' Standard panel	\$89.00	10' Heavy duty panel	\$99.00	10' bow gate	\$199.00	4' walk through gate	\$119.00	3' alleyway frames	\$60.00	40 piece – standard	\$4695.00	40 piece - heavy duty	\$4995.00
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<p>BALE FEEDERS</p> <table><tr><td>Horse feeder heavy duty</td><td>\$425.00</td></tr><tr><td>Single bale heavy duty</td><td>\$550.00</td></tr><tr><td>Single bale hay saver</td><td>\$750.00</td></tr><tr><td>Double bale heavy duty</td><td>\$950.00</td></tr><tr><td>Double bale hay saver</td><td>\$1150.00</td></tr></table>	Horse feeder heavy duty	\$425.00	Single bale heavy duty	\$550.00	Single bale hay saver	\$750.00	Double bale heavy duty	\$950.00	Double bale hay saver	\$1150.00	<p>FEED BUNKS BIG PIPE FEED BUNKS</p> <table><tr><td>20' Closed end</td><td>\$525.00</td></tr><tr><td>20' Open end</td><td>\$475.00</td></tr></table> <p>SILAGE AND GROUND HAY FEEDERS</p> <table><tr><td>20' L X 4'W x 2'D</td><td>\$825.00</td></tr></table> <p><i>Call about custom sizes or custom feeders.</i></p>	20' Closed end	\$525.00	20' Open end	\$475.00	20' L X 4'W x 2'D	\$825.00														
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<p>BALE SPEARS</p> <table><tr><td>Skidsteer mount 2 spear</td><td>\$575.00</td></tr><tr><td>Skidsteer mount 4 spear</td><td>\$850.00</td></tr><tr><td>Loader mount 2 spear</td><td>\$725.00</td></tr><tr><td>3 point mount 2 spear</td><td>\$575.00</td></tr><tr><td>Axial Bale unroller 3pt</td><td>\$1600.00</td></tr><tr><td>Twin arm bale unroller</td><td>\$1200.00</td></tr></table> <p><i>Call us about any custom spears or unrollers to suit your feeding needs.</i></p>	Skidsteer mount 2 spear	\$575.00	Skidsteer mount 4 spear	\$850.00	Loader mount 2 spear	\$725.00	3 point mount 2 spear	\$575.00	Axial Bale unroller 3pt	\$1600.00	Twin arm bale unroller	\$1200.00	<p>BALE FEEDER TRAILERS</p> <table><tr><td>20' single axle</td><td>\$4750.00</td></tr><tr><td>Silage pans</td><td>\$450.00</td></tr><tr><td>24' single axle</td><td>\$5250.00</td></tr><tr><td>Silage pans</td><td>\$575.00</td></tr><tr><td>32' Tandem axle</td><td>\$7150.00</td></tr><tr><td>Silage pans</td><td>\$950.00</td></tr></table> <p><i>Call about custom options to your feeder trailer.</i></p>	20' single axle	\$4750.00	Silage pans	\$450.00	24' single axle	\$5250.00	Silage pans	\$575.00	32' Tandem axle	\$7150.00	Silage pans	\$950.00						
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AUCTION

SATURDAY, SEPTEMBER 7 — 9:00 AM

Auction will be held at 1822 N. 262 nd Rd in AMES, KANSAS

(Ames is 12 miles East of Concordia, Kansas on Highway 9)

TRACTORS, CARS, PICKUPS & EQUIPMENT

1928 Chrysler 2 door sedan 6 cy flat head runs; 1928 Chev. 1 ton truck w/wood grain box, 4 cy 4 speed in running condition; 1988 Dodge Ram 250 pickup auto, 8 cy, good; 1959 IHC B120 pickup; 1949 Ford winch truck; IHC B110 cab; shop built 6' x 14' tandem axle heavy trailer; 4 wheel chassis; 2 wheel pickup bed trailer; 1941 IHC M w/loader runs; Massey Harris 101 runs; 1952 Massey 30 w/3pt. runs; 1949 IHC M runs; MM Z runs; 1941 IHC M; 1948 Massey 44; 1941 IHC M; 1953 IHC Super H; 1948 Avery A; Massey Harris 44 row crop; IHC Fairway (narrow rear wheels); MM ZTU; Twin City; McCormick Deering thrashing machine; Swisher pull behind mower for lawn tractor, like new; BMB 6' 3 pt. blade; 2 bottom pull plow; 4 gang pull type disc; 3 pt. hitch.

SHOP EQUIPMENT, COLLECTABLES & PARTS

Fairbanks Morris Z 8 hp stationary engine on trucks; IHC 1 1/2 hp stationary engine; 1915 Evinrude boat motor; wooden John Deere Sandwich corn sheller; Honda 305 Dream motorcycle (CB77 1012645); David Bradley Super Power walk behind garden tractor w/sickle bar & cultivator; Toro riding mower; JD 112 riding

mower; IHC 4 cy engine; JD 4 cy engine; Continental flat head 6 engine; Big Mow mower; snow blower; F20 wheels; engine truck wheels; Wisconsin engine; several small gas engines; Coleman 4000 watt generator; Duracraft drill press; 2" transfer pump on wheels; shop press; twin cylinder air compressor; rail road anvil; 75 lb. anvil; metal brake; radial arm saw; chop saw; portable air compressor; bench grinder; table saw; 36" metal lathe; jig saw; tool chest; battery charger; Forney 180 welder; brake riveter; wheel balancer; router; saws; trimo; bar clamps; hammers; combination wrenches; air tools; crescents; cable cutter; many other tools; chain hoist; sledge; gas weed eater; socket sets; jack collection; jack stands; log chains; come a longs; boomers; Handy Man jack; Champion spark plug cleaner; alternator tester; pump jack; go cart w/gas engine; top links; roller track; spades; shovels; assortment of car parts; Model A running gear & wheels; South Bend heaters; assortment of tractor parts; 14-30 & 12-4-36 tractor tires; tractor chains; Kajic Glasco IH tool box; James Selby Union & Buckeye cast iron seats; Brown & Besley letter file cabinet; Home Comfort gray gran-

ite wood cook stove; Mission 45A wood burning parlor stove; Direct Action gas cook stove; copper washing machine; 10 gal birch leaf crock; 20 gal Red Wing crock; 3 gal Red Wing churn; Maytag can; large collection of magazines (1940's Popular Mechanics; Oliver Collector News; many tractor parts catalogues; complete set Antique Power, other books); tractor buttons; Remington wood box; car tags; post vise; pedal grinders; iron wheels; store scale; 1950's bike; Garton 40's pedal car; JD 20 pedal tractor; 50 gal cast iron kettle; **Buckeye Root Beer crock container (chip)**; oak telephone box; corn grinder; large pen & pencil collection; oil cans; 5 gal oil cans; cream separator; corn rubber; cream cans; Mobil oil barrels; bird cages; buzz saw blade; JD thermometer; sled; Dempster well pump; pitcher pump; rail road oil can; IHC lug wrenches; tire irons; hub caps; picks; antique wrenches; hay fork; pulleys; porch swing; wood folding chairs; chicken feeders; farm toys; new cast iron toys; painted blanket chest; 2 black telephones; copper boiler; assortment picture frames; records; assortment of iron & pipe; 1" lumber; 2 x 6 lumber; very large assortment of other items.

Note: This is a large auction. Dick collected for many years. There are many unique items, an old collection. Check our website for pictures at www.thummelauction.com. For information contact Arvine at 785-243-0306 or Cain at 785-819-1263.

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Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC

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Auction Sales Scheduled

August 28 — Combines, tractors, track loaders, wheel loaders, bucket trucks, trucks, trailers, all kinds of farm equipment online (www.bigiron.com). Auctioneers: Stock Auction Co.

August 29 (NEW DATE) — Commercial amusement equipment at Topeka for KDOR seized property. Auctioneers: Totally Auction, Jeff Ruckert.

August 30 — Construction materials and tools at Lee's Summit, Missouri, for Construction Systems & Flooring Inc. Auctioneers: Lindsay Auctions.

August 30 — Marion County land in 2 tracts (tract 1 includes oil/gas production) at Marion for Jeanetta (Mrs. Stanley) Farr. Auctioneers: Leppke Realty & Auction.

August 30 — Clay County farmland at Clay Center for Monisa K. King-Gibbs. Auctioneers: Landmark Real Estate, Harold Mugler.

August 31 — Furniture, glassware, toys, coins, household, etc. at Lyons for Jim Kahler, Jerry Connery and Others. Auctioneers: Oswalt Auction Service.

August 31 — Furniture, SUV, boat, camper, appliances, tools, miscellaneous household, antiques and collectibles at Portis for Barbra and the late Bill Tebow. Auctioneers: Wolters Auction & Realty.

August 31 — Car, furniture, household, sterling silverware, safes, china, collectibles, tools, jewelry, watches, belt buckles, coins at Junction City for Virginia & the late Don Hamilton Trust (Central National Bank trustee). Auctioneers: Gannon Real Estate & Auctions.

August 31 — Notes & Coins at Emporia. Auctioneers: Swift-n-Sure Auctions.

August 31 — Furniture, primitives, collectibles, tractor & more at DeSoto for Roger Smith. Auctioneers: Paxton Auction Service.

August 31 — Antiques, collectibles, guns, tools & other at Salina for Shirley Swander. Auctioneers: Thummel Real Es-

tate & Auction, LLC.

August 31 — Guns, rifles, shotguns, pistols, revolvers & ammo at Sabetha. Auctioneers: Hartter Auction Service.

August 31 — Vehicle, woodworking & shop equipment, collectibles, household, office equipment & misc. at Lawrence for David & Karla Grether. Auctioneers: Mark Elston & Wayne Wischropp.

September 1 — Furniture, household, collectibles, golf cart, and lawn items at Council Grove for Betty Lou Honas and another Seller. Auctioneers: Hallgren Real Estate & Auctions, LLC.

September 1 — Furniture, collectibles, glass at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

September 2 — Glassware, collectibles, household and furniture at Lawrence. Auctioneers: D&L Auctions.

September 2 — Glassware/collectibles, antiques, furniture/household, accessories and miscellaneous at Emporia. Auctioneers: Flint Hills Auctions.

September 2 — Cars, popcorn machine & signs, store fixtures, furniture, crocks & collectibles at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

September 2 — Coins, cycles, vehicles, household, tools & shop, Model T & A parts, Ford parts, cycle parts, collectibles at Wichita for Leon M. & Loretta C. Voth Living Trust. Auctioneers: Auction Specialists, LLC.

September 2 — Harley Gerdes 18th annual Labor Day consignment auction at Lyndon. Auctioneers: Harley Gerdes Auction.

September 2 — Female sale at Emporia for Eby Ranch.

September 3 — Marshall County grassland at Waterville for James Shirck & Julia Hamre. Auctioneers: Raymond Bott Realty & Auction.

September 5 — Trailers, vehicles, forklift, tools & more at Salina for L & J

Builders, Inc. Auctioneers: Omli & Associates, Inc.

September 6 — Farm & industrial equipment at Clay Center for fall machinery consignments. Auctioneers: Mugler Auction Service, LLC.

September 7 — SALE CANCELED at Maple Hill for Kent Raine. Raine Auction Service.

September 7 — Antiques, collectibles, household, appliances, farm machinery and miscellaneous at Minneapolis for Jim & Patty Struble and Neighbor. Auctioneers: Bacon Auction.

September 7 — Farm equipment, vehicles and trailers, tractors, etc. at Chapman for Richard L. Gugler. Auctioneers: Brown Real Estate & Auction Service, LLC.

September 7 — Machinery, antiques, collectibles, and household items at Home for Charles and Anna Richardson Trust and Lloyd Richardson. Auctioneers: Prell Realty Auction.

September 7 — Household, antiques, furniture & misc. at Abilene for Doris Dilley Estate. Auctioneers: Ron Shivers Realty & Auction Co.

September 7 — Vintage furniture, Maytag collection, collectibles & misc. at Overbrook for Walt & Pat Martin. Auctioneers: Mark Elston & Wayne Wischropp.

September 7 — Airplane, Studebaker, RV, farm tractors, antique cars & parts, pinball machines at Udall. Auctioneers: JP Weigand & Sons, Inc.

September 7 — Tractors, cars, pickups, equipment, shop equipment, collectibles & parts at Ames for Richard (Dick) Hiner Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

September 7 — Antiques & collectibles consisting of stoneware, glassware, lamps, Depression glass, Lionel trains, household appliances, child's books & games, small farm machinery at Minneapolis for Jim & Patty Struble & neighbors. Auctioneers: Bacon Auction Company.

September 7 — Building & lot & personal property at Clay Center for Clay County National Bank. Auctioneers: Landmark Real Estate, Harold Mugler.

September 9 — Rush County acreage (held at LaCrosse) and Farm machinery, tractors, trucks (near Bison) for Norbert L. Hartman Estate. Auctioneers: Farmland Auction & Realty Co., Inc.

September 12 — Acreage in 5 tracts, home & farmstead at Goddard. Auctioneers: Jeff Lange Real Estate.

September 13 — Farm machinery & personal property at Goddard. Auctioneers: Jeff Lange Real Estate.

September 13 & 14 — Furniture, antique furniture, antiques, collectibles, general household at Clay Center for Rachel Wingfield. Contact Stephanie Avery.

September 14 — Real Estate at Rossville for Winnie McClain Estate and Larry McClain Estate. Auctioneers: Gannon Real Estate & Auctions.

September 14 — Farm machinery, antiques, household, tools, and recreational equipment at Salina for Bryce and Susan Area. Auctioneers: Wilson Auctions.

September 14 — Tractors, trucks, combines, farm equipment, trailers, cars, machinery for iron, livestock equipment, 3 pt. equipment and miscellaneous at Philipsburg for Harold J. Kaiser Estate. Auctioneers: Jessup Auction Service.

September 14 — Real Estate, 2 bedroom home at Abilene for Doris Dilley Estate. Auctioneers: Ron Shivers Realty & Auction Co.

September 14 — Collector tractor & equipment, coins, furniture, household, collectibles & misc. at Lawrence for Living Estate of Bob Nisely. Auctioneers: Mark Elston & Wayne Wischropp.

September 14 — Marshall County land at Frankfort for Joe & Jean Warders. Auctioneers: Joe Horigan Realty & Auction.

September 14 — Tractors, equipment, antiques & household at Salina for Bryce & Susan Area. Auctioneers: Lonnie Wilson Auctions.

September 14 — Household & antiques S. of Abilene for the Leon Kohman Estate. Auctioneers: Chamberlin Auction Service.

September 14 — Guns, ammo, reloading supplies, tools & household goods at Clay Center for Fred Kissinger Estate. Auctioneers: Kretz, Hauserman & Bloom Auctions.

September 14 — Nemaha County acreage & cropland at Sabetha for Bingman Family Farms, LLC. Auctioneers: Midwest Land & Home, Mark Uhlik.

September 15 — Gun auction at Salina. Auctioneers: Wilson Auctions.

September 15 — Contents or Havensville Lumber & Hardware at Havensville for Mrs. Dean (Betty) Myers. Auctioneers: Cline Realty & Auction, LLC.

September 15 — Guns, old Winchesters, modern rifles & handguns at Salina for private collection. Auctioneers: Lonnie Wilson Auctions.

September 16 — Real estate (home & acreage, & tract 2 acreage) W. of Burlingame for Betty & Bob Buek Estate. Auctioneers: Miller & Midyett Real Estate (Lyndon).

September 16 — Rooks County acreage at Plainville. Auctioneers: Farmland Auction & Realty Co., Inc.

September 17 — Household goods & misc. at Clay Center for Lippert Family Trust. Auctioneers: Kretz, Hauserman, Bloom Auction Service.

September 17 — Nemaha County farmland at Seneca for Joseph Tappenhorn Estate. Auctioneers: Midwest Land & Home, Mark Uhlik.

September 21 — Machinery, tractors, buggies and horsedrawn machinery, automobiles, trailers, antiques and collectables, household, tools, and wagons, etc. at Blue Springs, Nebraska, for Larry Foreman. Auctioneers: The Auctioneers.

September 21 — Tractors, antique horse drawn equipment, buggies, household furniture & more at Blue Springs, Nebraska for Larry Foreman. Auctioneers:

The Auctioneers, Henrichs, Jurgens, Hardin.

September 21 — SW Nemaha County pasture & farmland held on site SW of Centralia for Gerald & Dorothy Mitchell Heirs and Gary & Joyce Mitchell. Auctioneers: Cline Realty & Auction, LLC.

September 28 — Tools at Salina. Auctioneers: Wilson Auctions.

September 28 — Farm sale, tractors, trucks, machinery, shop tools, household & misc. N of Abilene for Mr. & Mrs. J.W. Romberger. Auctioneers: Ron Shivers Realty & Auction Co.

September 28 — Retirement farm machinery N. of Wamego for Tom & Anita Steinberger. Auctioneers: Cline Realty & Auction, LLC.

September 28 — Tools at Salina. Auctioneers: Lonnie Wilson Realty & Auction Service.

October 12 — Consignment auction at Salina. Auctioneers; Wilson Auctions.

October 12 — Consignment auction at Salina. Auctioneers: Lonnie Wilson Realty & Auction Service.

October 12 — Cow Power Gelbvieh Female sale at Pomona for Judd Ranch.

October 30 — Farm machinery & misc. E. of Salina for Dean & Virginia Seim. Auctioneers: Kretz, Hauserman, Bloom Auction Service.

October 30 — Fink Beef Genetics annual Angus & Charolais bull sale at Randolph.

November 2 — Harley Gerdes consignment auction at Lyndon. Auctioneers: Harley Gerdes Auction.

November 2 — Sim-Angus & Simmental Bull & Cow Production Sale for Irvine Ranch at the ranch N. of Manhattan.

November 9 — Farm sale NE of Clay Center for Stanley Roberts Estate. Auctioneers: Kretz Auction Service.

November 9 — SimAngus, Simmental & Angus Bulls North of Wheaton for Moser Ranch 22nd Bull Sale.

January 1, 2014 — Harley Gerdes 29th annual New Years Day consignment auction at Lyndon. Auctioneers: Harley Gerdes Auction.

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The Obvious

“The data is clear – Calves that arrive healthy and stay healthy at the feedlot make more money.”

This was printed in bold letters at the beginning of an article in one of our industry publications.

What! I read the headline again. What’s the catch? I turned it over and read it upside down. It must be a trick question? A play on words? A bad pun? There must be a deeper meaning to this bold statement.

Should it have said “Calves who stay healthy, etc. have better eye sight, higher IQs, are tastier, are better at hopscotch, have a better chance of being featured in a vaccine ad?”

In all fairness to the scientist, or more probably the editor, they had a limited space and wanted to be succinct. And... it did catch my eye immediately. I guess it is our duty as scientists, veterinarians, nutritionists and farmers to run experiments to prove the obvious. Without this option how would students find materi-

al for post-graduate thesis?

However, I can picture scenarios where the statement is obvious, but not always true. The sky is always lighter when the sun comes up. “Duh.” Then an eclipse rises up.

The data is clear - Frogs who do not have their feet tied up can leap farther than frogs that have their legs taped to their body.

The horse that finishes first wins the race. Really? How 'bout a disqualification for making faces at the crowd, making fun of another jockey's colors, or changing horses at the final turn?

I spent many years in feedlots. Lots of things were predictable, like mud, BRD, mill fires, OSHA inspections, blizzards, bovine escapes, and pickups that smell like pour-on, fermented silage, rumen contents, antibiotics, paint cans, burnt oil, and manure. But timing is crucial. Say the owner of pen #304 arrives just after the front end loader scraping that very same pen dozed off, flat-

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tened ten feet of concrete bunk, tore out the gate, stripped the cable, and ran over four head of napping 1200-pound steers. If the manager had only bought the visiting owner one more round of Spicy V8 juice over lunch, they would have been able to have the remaining healthy steers in #304 moved to another pen and explained later.

And what is obvious to one of us isn't always obvious to everyone. Can you imagine this question in an Animal Science Class at University of Nebraska, Lincoln:

1. Do cattle that arrive healthy and stay healthy at the feedlot make more money than cattle that arrive sick and stay sick?

a) Yes
b) No
c) It all depends on the market

But sometimes the logic becomes crystal clear. I was at a cattlemen's meeting and overheard a cattle feeder remark, “The calves that got sick and died right away made more than those that lingered on and died eventually.”

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Most crops lagging, conditions improving with recent rains

For the week ending August 18, 2013, unseasonably cool temperatures spread across Kansas, with isolated thunderstorms bringing moisture to some areas of the state, according to USDA's National Agricultural Statistics Service. There were reports of flooding in some low lying areas, along with yellowing soybeans and downed hay, as fields need to dry out. Where the rains missed and field conditions were drier, farmers were spraying pesticides, working hay fields, and preparing to plant their winter wheat crop. There were 3.3 days suitable for fieldwork. Topsoil moisture supplies rated 7 percent very short, 12 short, 63 adequate, and 18 surplus. Subsoil moisture supplies were 13 percent very short, 18 short, 60 adequate, and 9 surplus.

Field Crops Report: Corn in dough was 74 percent, behind 92 last year and 83 average. Corn denting was 19 percent, well behind 72 last

year and 48 average. Corn condition rated 11 percent very poor, 17 poor, 31 fair, 35 good, and 6 excellent.

Sorghum heading was 70 percent, ahead of 65 last year but equal to 70 average. Sorghum coloring was 7 percent, behind 20 last year and 13 average. Condition rated 5 percent very poor, 11 poor, 32 fair, 45 good, and 7 excellent.

Soybeans were 85 percent blooming, behind 90 last year and 90 average. Setting pods were 56 percent, compared to 62 last year and 65 average. Condition rated 2 percent very poor, 8 poor, 29 fair, 54 good, and 7 excellent.

Cotton squaring was 86 percent, behind 95 last year and 98 average. The portion of the crop setting bolls was 45 percent, behind 77 last year and 76 average. Cotton with open bolls was 1 percent, behind 9 last year and

4 average. Condition rated 1 percent very poor, 10 poor, 43 fair, 37 good, and 9 excellent.

Sunflower blooming was 65 percent, behind 75 last year and 71 average. Twelve percent of the sunflowers were in the ray flower dried stage, behind 32 last year and 15 average. Condition rated 4 percent very poor, 14 poor, 46 fair, 34 good, and 2 excellent.

Third cutting of alfalfa was 52 percent complete, behind 87 last year and 86 average. The fourth cutting was 1 percent complete, behind 22 last year and 10 average.

Livestock, Pasture and Range Report: The condition of range and pasture rated 16 percent very poor, 19 poor, 28 fair, 33 good, and 4 excellent. Stock water supplies rated 10 percent very short, 15 short, 64 adequate, and 11 surplus.



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