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A cattle supplement developed by KSU professor of animal sciences Jim Drouillard is one of the items for which Kansas State University has received a patent. New Generation Feeds has retained exclusive rights to the patented technology for use in its SmartLic livestock supplements.

Courtesy photo

Patents reward research, drive innovation at KSU

By Lucas Shivers

As a land-grant university dispersing knowledge on multiple fronts, Kansas State University charts new territory each year with patented inventions and technology to serve citizens around the world.

The quest for new products, applied research and exploration of innovation drives research especially in the College of Agriculture and within Research and Extension, said Marcia Molina, vice president of K-State Research Foundation (KSURF). In 2008, the College of Agriculture churned out 22 patents; in 2009, 8; 2010, 9; 2011, 11 and 2012, 17.

"Basic research drives technology and knowledge advancement," Molina said. "It is important for society to tolerate 'failure' since we learn a lot from that, as well as from success. Basic research is the building block

for scientific advancement."

KSURF is a nonprofit corporation responsible for overseeing and managing technology transfer activities at K-State, as well as shepherding the entire patent process. It was founded by Kansas State College President F.D. Farrell in 1942.

"KSURF manages the invention disclosure and patenting process, all of which is done at our expense," said Molina, who has been with KSURF since 2001. "Commercialization of the patents is done in partnership with the K-State Institute for Commercialization."

In 2012, patent royalties netted almost \$1.6 million. Often, around 25 percent is returned to the researcher. The rest supports K-State, new research projects and scholarships for students.

Historically, the first patent disclosure was received from Dr. Harold Batchelor in 1942 for making stoppers for bottles and test tubes. K-State filed its U.S. patent application on October 12, 1944 at a cost of \$40.60 for a plastic container for frozen foods to be used in freezer lockers.

Less than three years later, K-State researchers submitted their first international patent application in the United Kingdom on March 20, 1947 on the potato granule dehydration process.

In 1949, United States Patent and Trademark Office issued U.S. Patent No. 2,490,431 entitled "Dehydrating Process for Starchy Vegetables, Fruits and the Like" to K-State inventors John Greene, Ralph Conrad and Frederick Rohrman.

A few decades later, the first record of royalty income received in May 1961 from the Frontier Chemical Company on U.S. Patent No. 3,022,217 entitled "Fumigating Composition."

Currently, the KSURF portfolio includes 100 active patents. Two new patents were recently granted, both with strong agricultural connections.

Alternative Energy Grass

The patent, "char supported catalysts for syngas cleanup and condition," included a new material useful when converting straw and other grasses into a cleaner substance for alternative energy and fuel.

"The goal is to provide a less expensive method of removing tar," Molina said. "Any decrease in the cost of production can facilitate adoption of the new technology. In this case, the goal is to help make syngas a viable alternative energy source."

Former faculty members Wenqiao Yuan and Duo Wang researched a catalyst, a substance that increases the rate of a chemical reaction and is left unchanged by the reaction, used in syngas production. Converting biomass to syngas creates tar, an unwanted byproduct that must be scrubbed from the syngas.

"(Our) catalyst is more effective at removing tar from the syngas production cycle and is less expensive than current filtration methods," said Molina.

Livestock Candy

Jim Drouillard, KSU professor of animal sciences and industry, developed "candy," officially patented as a "product and process for elevating lipid blood lev-

els in livestock." The candy stimulates growth, health and reproductive functions of cattle, bulls and other livestock.

"(This product) is intended to elevate levels of specific omega-3 fatty acids to improve immunity and enhance overall fertility in livestock that consume the supplement," Molina said. "The goal is to improve cattle production."

Drouillard discovered a specific combination of molasses, oilseeds and oilseed extracts that when heated and evaporated, formed a substance that improves absorption of specific omega-3 fatty acids.

"It's a free-choice type of supplement in a block form, sort of like a big, 250-pound piece of candy for livestock," Drouillard said. "It's put in the pasture, and animals consume it whenever they want. The product's physical characteristics restrict the animals to consuming less than a pound each day, making it a convenient and cost effective way to deliver essential nutrients."

New Generation Feeds has retained exclusive rights to the patented technology for use in its SmartLic brand of livestock supplements. The process is used in making the company's HorsLic supplement for equines and FlaxLic supplement for beef and dairy cattle.

"The 'animal candy' research was collaborative and is jointly invented with a company," said Molina.

Drouillard is continuing research on the combination by working to improve the fats' resistance to bacteria in the digestive system.

Farm bill clears final legislative hurdle

By Donna Sullivan, Editor

A three-year-long effort to pass a new farm bill cleared its last hurdle on the way to the president's desk last Tuesday when the Senate passed the Agricultural Act of 2014 with a vote of 68-32. The bill will cost approximately \$956 billion over ten years, and save approximately \$16.6 billion.

Sen. Jerry Moran was the lone member of the Kansas delegation to vote in favor of the bill.

"Congress has taken a lesson from farmers and ranchers and finally finished what it started," he said in a statement released after the bill's passage. "While not ideal, this bill reduces farm program and food stamp spending by \$16.6 billion and provides agriculture producers with the long-term certainty they need to produce food, fiber and fuel for our country and the world."

Sen. Pat Roberts stood his ground against the bill, pointing out that all four Kansas members in the House had voted against it. "That should grab everyone in America's attention – the entire House delegation from the wheat state – was united in opposing this version of the farm bill," he said in remarks Monday night prior to the last Tuesday's vote on the Senate floor. "It is not that we do not appreciate agriculture or the producers and their families in our state, it is entirely the opposite – we care so much that after three years of work we will not settle for supporting backwards legislation 'just to get something done.'"

Roberts' concerns with the bill include the commodity subsidy programs, nutrition program spending and lack of regulatory reform. Dubbing it a "rear-view mirror" approach, Roberts continued, "I understand that compromises were made, but I cannot support a bill that marches backwards towards producers making decisions based off of government subsidies, retaliation against our livestock producers, and once again agriculture taking a disproportionate cut in spending compared to federal nutrition programs."

The Supplemental Nutrition Assistance Program (SNAP), which makes up more than 75% of the bill's spending, was cut by about \$900 million a year, roughly 1%. The savings are to come from reducing benefits to people who were given as little as \$1 in federal heating assistance in order to qualify for SNAP benefits.

The politically susceptible direct payment program ends its 20-year run in the 2014 bill, while risk protection programs, which producers listed as a priority, were bolstered.

Kansas Farm Bureau president Steve Baccus had this to say about the bill's passage. "This bill gives Kansas farmers and ranchers the certainty they need. It strengthens crop insurance, helps stockmen who've been hammered by natural disasters and improves conservation programs." Baccus conceded there were programs or titles in the bill that his organization might have preferred be done differently. "The uncertainty and unpredictability surrounding farm programs has become extremely burdensome for our farmers and ranchers and has begun to impede everyday business opportunities," he said.

Livestock producers were less than enthusiastic about the bill, with mandatory Country of Origin Labeling (COOL) and the Grain Inspection, Packers and Stockyards Administration (GIPSA) rule on cattle marketing being their biggest qualms. While livestock disaster programs were included in the bill, it wasn't enough to overcome their concerns about World Trade Organization compliance and retaliatory action by Canada and Mexico, two of the biggest and strongest markets for U.S. beef, pork and chicken.

Moran indicated in his statement that his vote for the

Continued on page 3



I am not going to lie; it's been a long couple of days. I am not sure what is worse, the days leading up to a big snowstorm or the days after. I am fairly sure, in most cases, that the dread leading up to the storm is worse. However, I have to say that the aftermath of this storm may have been the toughest part. All the preparations in the world cannot make you ready for 13 inches of snow, 30-mile-per-hour wind and sub-zero temperatures. Especially with new calves and lambs expected.

At least it was a snow day for my wife and kids. I chuckled as I watched the news when they were talking about letting the kids sleep in and have a lazy day inside. That may be true for the majority of the kids out there, but it is certainly not true for farm kids. Those of you not on the farm may think it sounds cruel to make the kids help with chores on a snow day. However, I greatly appreciated three extra sets of hands.

School was cancelled Monday night but the snow had just started Tuesday morning. It was definitely the calm before the storm. We made quick work of making sure all the sheep and cattle were bedded down, all of the hay feeders were full and water tanks were topped off. Then as the snow picked up, someone went out every two hours to check the ewes. It seemed like it took longer to get dressed for the trip out to the barn than it took to slog out to the barn and back.

Tuesday evening came with more heavy snow and an increasing wind. The predicted drifting had started with a vengeance. Chores that night were also a team effort. Tatum and I went out to check the cows (we started calving about three days before the storm, another indication of my great sense of timing). The herd was nestled down in a draw, away from the wind. Well, all of them except our newest calf who was stranded at the top of the draw, prevented from joining the herd by an ever-growing drift of snow.

Earlier Tatum was telling me that her friends and her were texting, messaging, Instagramming, tweeting, Snap Chatting, or whatever form of "communications" teenagers use these days. She was a

little jealous that they had slept in until late morning, watched movies, played on the computer, texted each other and definitely had not been outside. This Tatum told me bundled up in coveralls, winter coat, insulated boots, scarf, insulated gloves and a stocking cap. No easy, lazy snow day for my teenager.

We needed to get the calf down the steep slope through a tangle of vines and through what appeared to be a two-foot drift of snow. In reality the drift was probably closer to three to four feet when you factored in the slope. Soon we devised a plan. Tatum would herd the calf to me, I would get as far into the snowdrift as I could and still reach it. Then I would make my way down the steep, slick, snow-covered slope to the cows with Tatum pushing the brush out of my way.

The calf reluctantly agreed to the plan, well, agreed to it after Tatum pushed, pulled and finally carried it to me. I fell, staggered and tumbled through the drift with the calf. Then Tatum and I plowed our way through the maze of branches, a surprising number of which had thorns on them. Finally at the bottom of the draw we were met by the anxious mother eagerly awaiting her baby. Soon they were reunited and the calf quickly found the dinner table. Mission accomplished, right? Not quite, we still had to make our way back up the steep icy slope, past the thorny vines and through the mountain of snow at the top. We crawled to the top, looking a little like mountain climbers conquering Mount Everest and, to be honest, feeling the same sense of accomplishment.

Once we were inside the pickup and had started to thaw, Tatum looked at me through her snow-covered stocking cap and wondered out loud what it would be like to have a "normal" snow day. In the end we both knew that the snow day she had was much more rewarding than the "normal" snow day her friends had. She did not have cabin fever, had gotten a lot of fresh air and exercise and along the way saved a baby calf. However, I did think I heard her sigh when I told her school was cancelled for the next day. Only a farm kid would think going to school was less work.



The end of the line?

By John Schlageck,
Kansas Farm Bureau

In some areas of western Kansas the winter wheat crop continues to show signs of stress. Constant windy conditions and a lack of snowfall or other moisture is turning the crop bluish brown in color.

Hamilton County crop and stockman Steven Hines says the winds have been terrible.

"Gusts from 40 to 60 miles per hour seem to sweep through our country nearly every other day," Hines says. "Temperatures have been one roller coaster ride after another. For a few days it's 50 or 60 degrees then we'll experience a cold snap in the teens or near zero."

How well the wheat stands up depends on how well the crop is rooted, Hines says. It could winter kill if it isn't rooted firmly in the soil. The ground will heave until it pulls the roots loose and the wheat will die.

"Most of ours is pretty well rooted down with the moisture we received in August and September," the southwestern Kansas farmer says. "That drink of water started our wheat crop with a bang."

Unfortunately the moisture, ranging from one to three inches in August and one-half to four inches in September, wasn't enough to provide much needed subsoil moisture. Until more moisture arrives this year's wheat crop is living on borrowed time.

February can be a really good month, if wet snows

Continued on page 6

Prairie Ponderings

By Donna Sullivan

When I was growing up, my parents had a saying: "You're cutting your nose off to spite your face." I took it to mean that I was doing something in the small picture of my life that would be detrimental to the big picture; trading a short-term gain for a long-term loss. When I read through the myriad of statements and press releases about the Agriculture Act of 2014, that saying quickly came to mind. Don't get me wrong – I'm glad we finally have a farm bill. Everyone agrees that it's not perfect, and nobody got everything they wanted. That's generally the way things go in politics. Nobody should get everything they want and compromises have to be made.

Here is the part that is sticking in my craw. Roughly 79% of the farm bill goes to food assistance, or SNAP. That program received about a 1% cut in spending. Farm subsidy programs were cut by 31%, according to a statement released by the Senate Committee on Agriculture, Nutrition and Forestry.

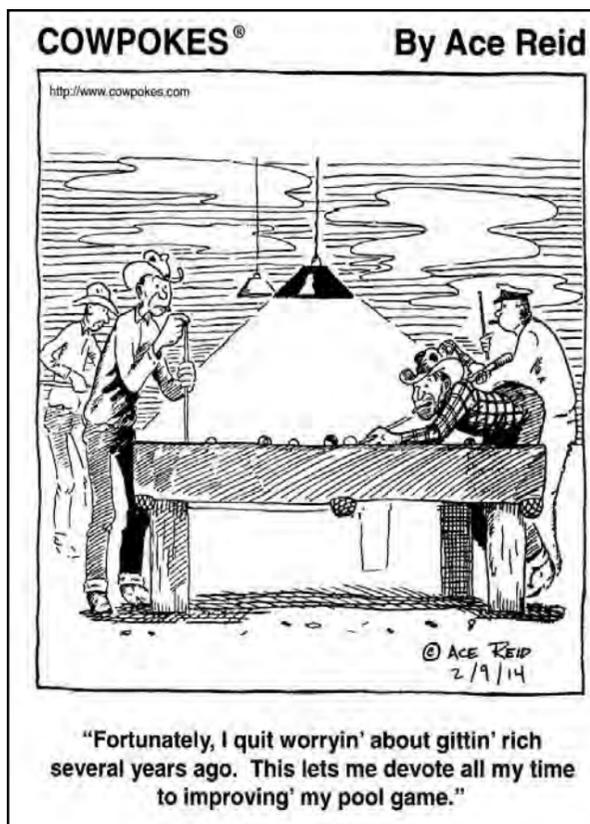
It struck me that one of the great ironies – and actually, great tragedies – of this whole debate is that it pits the ones who need food against the ones who produce it. It makes one look like lazy parasites and the other like selfish, greedy hard-hearts; when

in fact, neither is true. While I'm sure there are examples of those kinds in both camps, I don't believe it to be the norm. I see those needing food assistance as ones who have been hit hard by the recession, who do their best but struggle to make ends meet. The national school lunch program also comes under this title. On the other side, I see farmers and ranchers who work from sunup to sundown, sacrifice material gain for a preferred way of life and take great pride in producing food for their neighbors, their country and their world. But we're all Americans. No piece of legislation should be allowed to drive a wedge between the people that make up this great nation.

Another saying I grew up with is, "You can't rob Peter to pay Paul," and yet that's exactly what we're doing. As the number of people who need food assistance keeps ballooning, we take more and more away from the ones who produce that food. Farmers and ranchers are not ones to ask for handouts, as many would have the public believe. But when charged with the responsibility of feeding the world, there are things beyond their control, namely nature, they cannot and should not have to mitigate on their own. Not when so many depend on them for their very existence.

For decades the farm bill has included the nutrition program, and after a brief decoupling of the two last year, this bill continues the combined authorization of the programs. Politicians say the marriage is necessary because there aren't enough representatives with rural ties to move the legislation forward alone. But I think it might be a good union for another reason. If used correctly, the bill has the potential to unite us as Americans, if all parties involved treat each other – and are treated by the general public – with respect.

So, we have a farm bill. Hallelujah. And I mean that sincerely. Now let's all keep on doing what we do best – growing the food, fiber and fuel that powers this great nation.



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Farm bill clears final hurdle

Continued from page 1

bill was not a white flag of surrender when it comes to regulatory reforms and other concerns of his constituents. "The fight is far from over when it comes to regulatory reforms," he said. "As a member of the Senate Appropriations Committee, I plan to keep COOL and GIPSA front and center this year. I am committed to working with my colleagues to complete the work still needed on these issues, and build on the farm bill's provisions to help make certain the United States remains the most food-secure country in the world."

Agriculture research authorizations were maintained in the bill, including Agriculture and Food Research Initiative and a new Foundation for Food and Agriculture Research will provide a structure and mandatory funding for new public/private partnerships and investments that will

further USDA's research.

Conservation efforts were bolstered in the 2014 farm bill, with 23 programs consolidated into 13, and efforts focused on working lands. The bill ties conservation compliance for wetlands and highly erodible land to subsidies for crop insurance. \$1 billion was allocated for a new conservation program, the Agricultural Land Easement program, to save working farm and ranch lands throughout the U.S. over the next decade. The program consolidates the Farm and Ranch Lands Protection Program and Grassland Reserve Program. "This legislation will keep working farms and ranches in family hands and maintain the vitality of our farming communities," said Rand Wentworth, president of the Land Trust Alliance. "It will help ensure that the land that grows our food will not be lost, protecting

jobs and community values across the country."

The biofuel industry took a hit in the bill, as a provision removes subsidies for fuel pumps in rural areas that blend gasoline with higher concentrations of biofuels. The Obama administration had set a goal in 2010 of helping gasoline station owners install 10,000 blender pumps over the next five years to promote consumption of higher-ethanol gasoline.

Agriculture Secretary Tom Vilsak said the bill "will allow the proud men and women who feed millions around the world to invest confidently in the future."

"This legislation is important to the entire nation," he continued. "While no legislation is perfect, this bill is a strong investment in American agriculture and supports the continued global leadership of our farmers and ranchers."

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***** By G&G Area Cooks *****

This Week's Grass & Grain Contest Winner Is Ruby Peter Of Randolph

Winner Ruby Peter, Randolph: "This recipe was given to me from my sister Faye. This is a candy in cookie clothing with a surprise found in each bite. Great for Valentines. A must to give to your favorite Valentine!"

CHOCOLATE-COVERED CHERRY COOKIES

- 1 1/2 cups all-purpose flour
- 1/2 cup cocoa
- 1/4 teaspoon baking powder
- 1/4 teaspoon baking soda
- 1/4 teaspoon salt
- 1/2 cup butter or margarine
- 1 cup sugar
- 1 egg
- 1 1/2 teaspoons vanilla extract
- (2) 10-ounce bottles maraschino cherries
- 6-ounce package semisweet chocolate chips (1 cup)
- 1/2 cup sweetened condensed milk

Preheat oven to 350 degrees. Combine flour, cocoa, baking powder, baking soda and salt. Cream butter and sugar until fluffy. Add egg and vanilla, beat until smooth. Gradually add dry ingredients to creamed mixture, beating until blended. Shape dough into one-inch balls. Place on ungreased baking sheet and press thumb into center of each cookie. Place a cherry in the center of each cookie. Combine chocolate chips and milk in small saucepan. Heat until chocolate is melted. Stir in 4 teaspoons cherry juice. Spoon about 1 teaspoon over each cherry, spreading to cover. Bake for about 10 minutes. Cool on wire rack. Makes 4 dozen.

Millie Conger, Tecumseh:

- ### APPLE RAISIN FRENCH TOAST BAKE
- 1 pound loaf cinnamon raisin bread, cubed
 - 8-ounce package cream cheese, diced
 - 1 cup diced & peeled apples
 - 8 eggs
 - 2 1/2 cups half & half
 - 6 tablespoons butter, melted
 - 1/4 cup maple syrup

Preheat oven to 325 degrees. Coat a 9-by-13-inch

baking dish with cooking spray. Arrange half the cubed bread at the bottom of the pan. Sprinkle cream cheese evenly over bread and top with apples. If you like extra raisins, add them now. Top with remaining bread. In a large bowl beat eggs with half & half, butter and maple syrup. Pour over bread mixture. Cover with plastic wrap and press down so that all bread pieces are soaked. Refrigerate at least 2 hours. Bake 45 min-

utes. Let stand 10 minutes before serving.

Lydia J. Miller, Westphalia:

- ### SKILLET COOKIES
- 2 tablespoons butter or oleo
 - 1 cup finely cut dates
 - 1 cup sugar
 - 2 eggs
 - 3 cups crisp rice cereal
 - 1/2 cup or more walnut meats

Melt oleo in skillet; add dates, sugar, eggs. Cook over heat stirring constantly until forms a ball, 6 to 8 minutes. Cool slightly then stir in cereal and nuts. Mix well. Sprinkle a piece of waxed paper lightly with powdered sugar. Shape into two rolls, 2 inches or more in diameter. Roll in powdered sugar. Wrap in waxed paper and chill. To serve cut slices about 1/4-inch thick.

GRANDMA'S GINGERLESS GINGERBREAD

- 1 cup sorghum molasses
- 1/2 cup sugar
- 1/2 cup shortening
- 1 cup boiling water
- 1 heaping teaspoon soda
- 1 heaping teaspoon cinnamon
- 2 well-beaten eggs
- 2 to 2 1/4 cups flour to make soft cake dough

Mix all ingredients thoroughly and put in a 9-by-13-inch pan. Bake at 350 degrees. When top springs back when touched, it's done!

35th Annual Spring Tasting Luncheon "Kick Start Your Day the Healthy Way"

The 35th Annual Spring Tasting Luncheon will take place on Thursday, March 20. This will provide participants an opportunity to make a "Healthy" recipe.

Please prepare your favorite recipes to bring to the luncheon. Each year this luncheon is sponsored by K-State Research and Extension, Pottawatomie County and Pottawatomie County Farm Bureau.

This event will be held at the First Presbyterian Church at 601 Elm in Wamego with registration beginning at 11:00 a.m. and the meal at 11:30 a.m.

Sharon Davis will be the speaker. Davis, B.S., Family & Consumer Sciences Education, is a licensed secondary FACS teacher on staff with the non-profit association HomeBaking.org. The public is encouraged to share a recipe and bring the dish the day of the luncheon as well as a non-perishable food item from the recipe for the local food pantry. All ages are invited to participate. Each attendee should send in a recipe.

Recipes for the 2014 Spring Tasting Luncheon

must be received or post-marked by Thursday, February 20. All recipes can be emailed to brickstr@ksu.edu or mailed to the Pottawatomie County Extension Office, P.O. Box 127, Westmoreland, KS 66549.

Select the recipe for the dish you plan to bring to the 2014 Tasting Luncheon. Then follow these directions:

1. PRINT or TYPE your recipe. Or you can email your recipe to brickstr@ksu.edu Make sure it is legible and the ingredients are correct. The typists are not familiar with all the recipes and need to be sure the recipe can be read and the ingredients are correct. PLEASE INCLUDE THE NUMBER OF SERVINGS FOR YOUR RECIPE.

2. Be sure to include your name, address and phone number (in case there are questions about your recipe).

3. Specify the category

for your recipe: main dish, vegetable, salad, bread, dessert, or miscellaneous.

4. Please proofread your recipe and double-check your ingredients for errors.

To attend the Tasting Luncheon you will need to: 1) Send your recipe by February 20 to the Extension Office. 2) Prepare your dish and bring it March 20 with your own table service.

Everyone is reminded to use good food safety and sanitation practices. All perishable food should be kept below 40 degrees F or above 140 degrees F. Food should not be in the danger zone for more than two hours which should include the serving time. 3) Don't forget your non-perishable item for the food pantry.

At the luncheon, a complimentary copy of the recipe book will be given to those who have sent in a recipe and brought their dish.



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Keeping Your Health In Check Starts With Lunch



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1 container Minute® Ready to Serve — any whole grain variety such as Multi-Grain Medley, Brown & Wild Rice, or Whole Grain Brown Rice

1 can (6 ounces) canned tuna, drained
4 cherry tomatoes, halved
4 black olives, sliced
2 tablespoons red wine vinaigrette
1 cup salad greens

Prepare rice according to package directions. In a medium bowl, combine rice, tuna, tomatoes, olives and vinaigrette; mix well. Serve over greens and/or with pita chips. Serves: 2 (about 1 cup each).



Home and Away

Snow Day

By Lou Ann Thomas

Last week's snow storm was bad enough, but then the north winds howled and made going outside out of the question. It got so cold I had to work to stay warm even when inside. But, out of necessity, I came up with some workable solutions. If you too are struggling to find warmth these days here are some suggestions.

One of the easiest methods is hot baths, which are always good. I spend a lot of time in hot water, both figuratively and literally, and find prune-like skin is a small price to pay for thawed limbs and digits.

There are a variety of foot, hand, neck and seat warmers on the market that can be heated in the microwave. I suggest get-

ting several of these and duct taping them to your body whenever you must go outside. Oh, sure they may create unsightly bulges, but who really cares what you look like as long as you are warm.

If you don't want to wear bulky heaters, then you can always don several layers of clothing. I have found six to be a good number. Of course, with that many clothes on, if I fall down, I am completely helpless to get back up. So if you see me on my back in the snow, I am not making snow angels, but rather have accidentally tipped over and could use some assistance.

Experts say 90 percent of our body's heat escapes

from our heads, so I suggest wearing live animals on your head for added warmth. Of course, this could increase static electricity, which is already an inherent problem during the winter because it wreaks havoc on clothing and hairdos.

Lately I look as though I am using a fully inflated balloon as a hair-grooming tool, and wearing anything other than cotton means clothing sticks to my body like a second layer of skin. While dining out with friends the other night, I removed my jacket only to find the sock I thought I lost in the dryer hitching a ride on the back of my shirt. Who knows where the sweat pants I assume abducted by dryer aliens are now residing?

But there are advantages to the cold weather. After all, freezing is a way to preserve things, so maybe this cold weather will inhibit the aging process. Come spring, maybe we all will appear younger.

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Insight

Continued from page 2

blanket the crop. The ground is generally thawed enough so the snow melts and the moisture insulates the wheat.

On the other hand, if moisture continues to be scarce this does not bode well for the young crop.

Blowing soil has been another problem this winter. When this happens farmers chisel their ground in an attempt to keep their fields from blowing. Hines, his two brothers and nephew chiseled 240 acres of their winter wheat ground recently.

"There's not enough cover on the ground to keep the soil from moving when it's dry like this," Hines explains. "We had to run pretty deep with the chisel to pull up any clods, but I feel good about what we accomplished."

Certain regions of western Kansas have been in some degree of drought since 2007. The Hines family farm didn't harvest any fall crops to speak of last year.

The 2013 wheat crop was a total bust.

"We harvested 1246 bushels from 2,200 acres planted," Hines says. "Last year was the first time in 40 years I had to buy wheat seed to plant back in the ground."

Hines hopes February will bring snow and spring rains. He understands if his wheat receives moisture at the right time his region of the state can raise a tremendous crop on 10-12 inches of moisture - if temperatures don't get too hot.

Because of the sparse fall harvest, the Hines family kept its entire milo crop to use for cattle feed. This grain shortfall hit them hard in the pocketbook.

The extended drought has also resulted in downsizing their mama cow herd.

"We're down between 50-75 head," Hines says. "Any cows that haven't produced calves were sold and we haven't replaced them."

Other Kansas cattlemen have been forced to liquidate or downsize their herds as well. Hines fears cattlemen in his region will not restock their herds

when, and if, better times return.

"A lot of the guys that sold their herds are older and some will retire or find it too difficult to take a chance with cattle again," he says.

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.

Report: U.S. cattle herd at lowest number since 1951

AP - The lingering effects of drought across the Great Plains in recent years have led to another decrease in the U.S. cattle herd.

The National Agricultural Statistics Service reports that the U.S. inventory of cattle and calves totaled 87.7 million animals as of

Jan. 1. That was down by about 1.6 million cattle, or 2 percent, compared with this time last year.

The agency says this is the lowest January inventory since 1951.

A bright spot was a 2 percent increase in young, female cattle retained for breeding. One expert says

that factor could allow the herd's seven-year contraction to stabilize.

Totals in Texas, the nation's leading cattle producer, decreased 4 percent.

The January report had been anxiously awaited because the agency didn't issue a report in July due to sequestration.

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Leadership conference a learning experience for participants

Thirteen beef industry stakeholders from across the state participated in the Kansas Livestock Association (KLA) Leadership Conference January 20-22 in Topeka. The three-day educational seminar exposed attendees to various aspects of KLA, the legislative process, industry advocacy and beef marketing.

While at the Capital, the group attended a Senate

Agriculture Committee meeting and heard from KLA lobbyists on how they protect member interests during the legislative process. Conference attendees also had a chance to meet with their respective legislators to discuss important beef and dairy industry issues.

As a part of the conference, members took part in an interactive advocacy

training session led by KLA staff and WIBW-Topeka farm broadcasters Kelly Lenz and Greg Akagi. Participants were given an overview of the importance of being an industry advocate and the various social media outlets available to help them reach consumers who want to know more about how and where their food is produced.

White City rancher Deb-

bie Lyons-Blythe shared with the group how she has implemented advocacy into her daily routine through Facebook, Twitter and, most notably, the use of her blog, "Life on a Kansas Cattle Ranch." Lyons-Blythe regularly reaches thousands of consumers across the U.S. with her positive messages. The class imme-

diately put this training to work while distributing samples of flat iron steak to consumers at two Dillons grocery stores in Topeka. They answered customer questions about beef nutrition and cooking methods. Class members also visited U.S. Foods and Texas Roadhouse to learn more about how beef is sold at the food-

service level.

This year's class brings the total number of graduates of the leadership training program to 645 since it was initiated in 1981. Sponsors of the annual event included Central Life Sciences; Frontier Farm Credit; Kennedy and Coe, LLC; and the Kansas Livestock Foundation.



Pictured are, from left: Jill Tregemba, Lawrence; Troy & Denise Nelson, Lewis; Ron Hazelton, McPherson; Samantha Kohman, Emporia; Darcy Henke, Emporia; Erin & Jared Petersilie, La Crosse; Michelle Busch, Scott City; John Sachse, Easton; Jamie Gudeman, Newton; Levi McBeth, Kingman; and Travis Litton, Newton.

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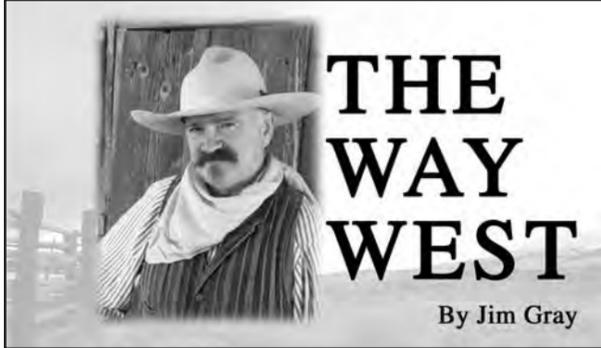
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THE WAY WEST

By Jim Gray

The Goddard Brothers

The Union Pacific Railway Company, Eastern Division was the first railroad to build across the state of Kansas. The western terminus gradually moved west. Junction City was the end of the track in the fall of 1866. In 1867 the rails reached a series of frontier towns in rapid succession. Salina welcomed its first engine and cars on April 29th. The first train en-

tered Ellsworth on July 5th and Hays City celebrated the beginning of rail service on October 15, 1867.

Each town serviced the needs of the railroaders with an abundance of drinking establishments and eating houses. End-of-track towns were fast places where money flowed and the devil always got his due. In spite of the danger, people were

drawn to the excitement and the prospect of a quick dollar. Into the mix of Hays City gamblers, soldiers, prostitutes, and adventurers the Goddard brothers established an eating house. In the course of events the brothers acquired a contract to feed the railroad crews. To keep up with the need to put meat on the plate of the hard-working men that frequented their establishment the Goddards hired a young man to bring in buffalo meat from the surrounding prairie. The young hunter was such a fine shot that he never failed to bring plenty of meat to the table. He was so dependable that the railroad men began to call him Buffalo Bill and a Kansas legend was born. Captain George Armes of the 10th U. S. Cavalry hired Buffalo Bill Cody as a scout. Armes wrote in his diary

that Cody was "one of the best shots on the plains...and is one of the most contented and happy men I know."

The Goddard brothers were naturals in the restaurant business. Feeding people was a family affair. Before coming to Hays City, Cyrus operated a restaurant in Leavenworth. Cy employed several brothers in the venture. Edwin served as the clerk. George was the steward

and Clarence was the waiter. The Hays City eating house only lasted a short time. The end of the track moved steadily forward until it reached Sheridan, far out on the western plains. Goddard's railroad contract expired and the eating house was forsaken for the saloon business.

By 1870, Cy and Ed Goddard were running separate operations. The typical saloon was generally a

"male only" establishment. Those that offered feminine companionship employed musicians who played into the early morning hours as the inmates of the dance house danced, drank, and frequented the cribs just off the dance floor at the rear of the house. According to Hays historian Floyd Streeter, "Cy employed five or six nymphs to entertain the patrons who whirled their partners to

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the music of schottische or polka, and then waltzed up to the bar for liquid refreshments." Ed's place was probably just as seedy, but it was Cy Goddard's dance house that gained a lasting reputation for violence.

More gunfights took place in that treacherous place than in any other in town. Satan's fiery abode would have seemed tame to the inhabitants that frequented Cy Goddard's place. The sound of the pistol and the smell of gun smoke regularly accented the atmosphere within. Four murders were recorded in the place in 1873 alone.

Of the tragic events that occurred there, February 15, 1874, probably marked the worst of Cy Goddard's history. That night was probably no different than any evening in the house as the sporting women and men swayed to the music. Whiskey flowed like water and great shouts of revelry filled the air. Suddenly, Lou Sherwood appeared to face a lover who had scorned her passion. As she cried out, "It is all for you Fred!" an upraised fist revealed a dagger which she abruptly thrust into her own breast. Again and again she

raised her fist and thrust the dagger into her tormented body.

Witnesses straightaway thought her demonstration was but an act until her clothes began to stain profusely with blood and their indifference turned to horror. Unable to stand, Lou slumped to the floor as the last of her life flowed onto the wooden planks of the dance floor. Poor unfortunate Louisa Sherwood found her eternal rest in the notorious Hays City Boot Hill. Within a few years the violence moved beyond Hays City and Lou Sherwood was forgotten. The Goddard brothers moved on too; no one really knows where. Like so many actors on the stage of frontier Kansas, their ultimate end has become a mystery yet to be solved on The Way West.

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

Sprayer Calibration Workshop to be held February 27

Today's farmers increasingly view sprayers as vital to the efficiency of their operations. The list of products to be applied seems longer and each product, fertilizer, herbicide, fungicide, or insecticide has its own application window. By owning the sprayer, growers can target the application for the right agronomic moment. To help producers with sprayer questions, Post Rock Extension District is providing a Sprayer Calibration Workshop on Thursday, February 27, from 9:30 a.m. to noon in Smith Center at the St. Mary's Catholic Parish Hall.

Robert Slocombe, K-State Research and Extension cropping systems spe-

cialist, will conduct this workshop to assist producers in doing a professional job of pesticide application. Choosing the right nozzle is critical for correct particle size to comply with the label and EPA, to be effective, and to manage drift. The sprayer must be calibrated correctly to insure efficacy.

The meeting begins at 9:30 a.m. and will conclude at noon with a free lunch sponsored by Landmark Implement, Inc.

Sprayer equipment will be on display to show the latest technology. There is no cost to attend, but registration is requested by Friday, February 21, by contacting any of the Post Rock Extension district offices in

Beloit, Lincoln, Mankato, Osborne or Smith Center or contacting Sandra Wick at swick@ksu.edu (785) 282-6823.

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TERMS: Buyer to pay 10% non-refundable earnest money day of sale. Buyers are encouraged to pre-register prior to day of sale; all Buyers will be qualified with bank letter or verification of funds prior to being given a bid number. Closing is set for May 15, 2014. Seller reserves the right to accept or decline bids. Title policy and closing fees to be split equally between Buyer & Seller. Crossroads Real Estate & Auction, LLC is representing the Seller. Statements made day of sale take precedence over printed material.

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Sifting out quality information and management tools for crop producers

By Kim Larson, Crop Production Agent, River Valley Extension District

Information overload can be an issue in today's society. How do we sort and process all the information constantly fed to us via internet, meetings, mail, etc.? What information can we trust, and how do we implement our learning into our actions for our benefit?

In my position as an Extension agent, I become one facet of information in the agriculture community. I attempt to navigate people through the noise to the trustworthy, useful information needed. My goal, and the goal of K-State Research and Extension, is to provide quality information to the producers in my district. I must determine how my message can be most effective in reaching my audience. Each individual is different and prefers different avenues. This causes me to use as many different information avenues as possible to reach my media-diverse population. However, I find the use of smart phones is increasing. In many ways, this may be a great benefit for producers.

The information and technology sources available to producers today are phenomenal and improving. The use of internet and web/smart phone apps has placed research, expertise, information, and decision-making tools in your hand for minimal or no cost to you. As crop prices show a declining trend recently, it is even more important for smart, efficient, and swift management decisions for

your cropping practices. One mobile device compatible web-based decision support system I would like to highlight is iWheat.org. iWheat is still in its development stages, but I would encourage you to tune your radar to what it is and how it can become a valuable resource as it progresses. iWheat.org is being developed in conjunction with several surrounding state universities including Kansas State. Right now it is heavily weighted to assist in management of wheat pests. The tool uses grower derived data and has the ability to track pests across the state, giving you the one up on avoiding migratory insect pest damage before it reaches you. You can search information on specific pests and control methods using this program. There are also videos and fact sheets on new and current issues in wheat. This, along with many other useful agriculture apps, will be explained and discussed in our upcoming Soybean School breakout sessions on February 27th in Concordia.

As you take advantage of today's technology resources, I desire to remain a reliable source in your many information avenues, keeping with the quality service K-State Research and Extension agriculture agents have held for decades. For timely updates and upcoming programs, follow me on Twitter: Kim Larson@RVDCrops, check out our website: www.river-valley.ksu.edu, sign up for our newsletter, or stop in the office anytime.

REAL ESTATE AUCTION

SATURDAY, MARCH 8 — 1:30 PM

AUCTION LOCATION: The Corning Community Center,

6221 5th St. — CORNING, KANSAS

630 acres M/L, of Southern Nemaha County Pastureland to be offered in 4 tracts

PROPERTY LOCATION: 231 "J" Rd. Havensville, KS 66432 From Corning, KS, go 8 miles south and west on Hwy. 63, then back north 1 1/4 miles on "J" Rd. Or From Havensville, KS, go 4 miles north on Hwy. 63 to "J" Rd., then 1 1/4 miles north on "J" rock road.

LEGAL DESCRIPTION: Tracts 1 through 4 is Section 28, Township 5 South, Range 12 East, Nemaha County, KS. This short section of land will be offered in quarters with buyer's choice to buy one or all four quarters.

TRACT 1: SE 1/4, which consists of 158 acres, M/L, with owner built 2004 home with full basement, large well-kept barn with shop and livestock working area. There are metal cattle pens and 3 concrete bunk fence lines with aprons, 3 cattle waterers and many extras. The house and lots are on well water. The balance of acreage is all in brome and native grass for pasture or haying.



TRACT 2: NE 1/4, which consists of 158 acres, M/L, of all native grass pasture with ponds and good fence.

TRACT 3: NW 1/4, which consists of 157 acres, M/L. This tract contains 98 acres of terraced, seeded back, native grass land with the balance in native grass for pasture or meadows.

TRACT 4: SW 1/4, which consists of 157 acres, M/L, of native grass, of which approximately 95 acres are terraced and seeded back grass. Tract 4 also has a smooth, grass airplane landing strip and an open front airplane hangar.

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For more information or viewing, please call or check website: John E. Cline 785-889-4775 or Annette Cline 785-556-3971 Farmstead and house showing by appointment only.

TERMS & POSSESSION: The Sellers require 10% down payment the day of sale with the balance to be due on or before April 8, 2014. Possession to be upon closing, except for the house, barn and other buildings and the yard area, which possession will be given May 1, 2014. If Tracts 1 through 4 are sold separately, the Buyers and Sellers will split the cost of a boundary survey. Buyers will be required to construct a 5 wire boundary fence. The Buyers and Sellers will equally split the title insurance and closing costs of the Nemaha County Abstract Co. 2014 taxes will be pro-rated to the date of closing. The seller owns 3/4 of the mineral rights, which will pass to the buyer at closing. Statements made sale day take precedence over printed material. Cline Realty & Auction, LLC represents the Sellers' interests.

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Refuge compliance report shows increased compliance in 2013

The National Corn Growers Association announced recently that it is pleased the enhanced Compliance Assurance Program is seeing strong success. The program, which includes on-farm refuge assessments, an online survey and IRM education and awareness, has documented an increase in both the overall number of growers planting proper corn refuge and use of integrated refuge products. The CAP aims to improve compliance with Insect Resistance Management requirements. The Agricultural Biotechnology Stewardship Technical Committee, a consortium of Bt corn registrants, submits an annual CAP report to the U.S. Environmental Protection Agency describing industry-co-

ordinated compliance assurance efforts for Bt traits.

Adoption of integrated refuge products result in automatic compliance in the Corn Belt

Highlights of the survey indicate a strong adoption of integrated refuge products, which include Bt and refuge seed interspersed in a single bag or container.

"We are pleased to see that the number of growers planting integrated refuge products on their entire farming operation has more than tripled this year and the percent of those who planted at least one integrated product increased from 50 percent in 2012 to 75 percent in 2013," said Mike Smith, ABSTC IRM subcommittee co-chairman.

ABSTC projects that the

adoption of integrated products will continue to increase, contributing to the overall increase in compliance, which helps preserve Bt corn technology durability.

Survey shows that most growers are in compliance

In 2013, the majority of growers surveyed planted the required refuge size on their farms and planted it within the required distance for all of their Bt corn fields. Furthermore, the survey indicated that the percentage of growers not planting any refuge acres continues to be less than ten percent.

The ABSTC continues to promote education programs and strategies to preserve the efficacy of Bt tech-

nology. In addition, the ABSTC continues to partner with NCGA to provide information on refuge ensures that NCGA's membership and networks are fully informed of refuge requirements and the CAP. A collaboration supporting the use of best management practices for corn rootworm was initiated. The campaign includes advertisements

and editorials in local publications on practices to utilize to help protect your fields from CRW.

"This type of collaboration is vital to the industry's efforts to showcase the benefits of best management practices - including crop rotation and agronomic factors associated with corn-on-corn production," said Jim Zimmerman, chairman

of the National Corn Growers Association's Trade Policy and Biotechnology Action Team. "ABSTC is committed to the success of the farmer, and through our educational programs, we are giving them options that will help manage challenging situations on their farms, as well as durability and stewardship of the industry's trait technologies."



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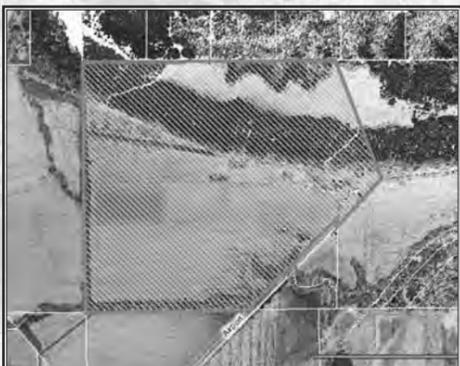
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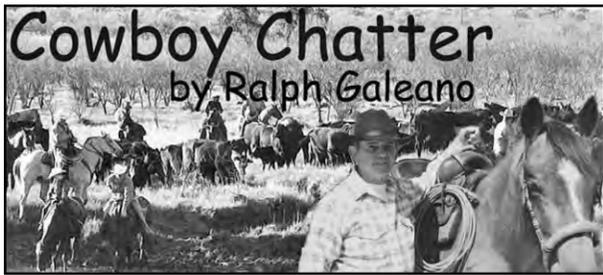
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Cowboy Chatter

by Ralph Galeano

Ground Tied

Hundreds of bawling cattle created so much noise that the peace and quiet of the mountain valley was shattered. The noise was so great it was hard to even hear yourself think, no less hear the roundup boss's orders. Cows, calves and bulls were being sorted according to their return address — the brand burned on their hide. Cattle with the same brand were pushed into pens to await their turn to be trailed out of the mountains toward their home ranch.

The Ruby Valley fall roundup on BLM land had been under way for several weeks and now the cutting, sorting and penning was under way to separate the cattle. The bovines were run through a long, wide chute with gates going into separate pens and traps. A

rider called out the brand and that animal was pushed through an opened gate into the pen that held its home ranch cattle.

From afar, it looked like mass confusion as riders pushed and sorted cows toward the pens, but it was a well-organized operation in progress as clouds of dust rose above the din. Through it all, a lone bay horse calmly stood ground-tied outside the pens with his reins hanging loose and the ends lying on the ground. Stray cattle and riders galloping past didn't seem to faze him. He was staying put amidst all the action, even though he wasn't tied hard and fast to anything. Someone had taught him well. He was ground-tied. When the rider dismounted and dropped his reins — that's where he stayed.

I rode past him several times and was impressed with his self-discipline to stay in the same spot while so much was happening around him. I never learned who trained that horse because I didn't see his rider leave with him but I made a note to learn the techniques necessary to train a horse to ground-tie. It was plain to see the advantages of having your loose horse stay where you dropped the reins.

I began ground-tying lessons when we returned home. I knew it wasn't going to be easy to teach a

horse to ground-tie so I began experimenting with a well-broke horse. I figured it would be easier to make mistakes on a good broke horse rather than a rambunctious colt. He would tell me when I was making a mistake because he'd simply turn his head to keep from stepping on the reins and amble away.

It didn't take long to realize I shouldn't start with a bridle and reins. The reins could get stepped on and break or the horse could injure his mouth with the bit if he stepped

on the reins. I needed something like a long lead rope about fifteen or twenty feet long.

I rigged him with a long rope attached to a halter and let the rope droop to the ground with a few loose coils on the ground and the rest of the rope in my hand. When he moved, I stepped beside him and gave the rope a few soft tugs downward and said, "Whoa" and then stepped a pace or two away from him. "Whoa" means stop and stand still so I figured that was the right word to use. To take temptation out of

the equation, I learned to not practice ground-tying in a grassy area. If chow was right under his nose the lessons would be harder to enforce so I started in a sandy round pen where there was nothing to eat so he wasn't distracted.

It takes patience, repetition and time to teach ground-tying. Work at it until you start to see results. It may not come during the first session but continued effort will begin to show results. Stand in front of the horse's head with the lead rope dropped to the ground.

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AUCTION

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CLAY CENTER FFA ALUMNI AUCTION

SATURDAY, FEBRUARY 15 — 10:00 AM

AUCTION LOCATION: National Guard Armory, 12th & Bridge, CLAY CENTER, KANSAS
LUNCH SERVED BY CLAY CENTER FFA

New Items & Services: Gift Certificates: (2) \$100 fuel gift cards from Farmway Co-op; "The Works" Fuel Saver package (oil change & tire rotation) from Hanson Ford; (2) oil changes from The Green Team Clay Center; Grilling Basket from K&R Propane, Hope, KS; KSU basket, from Distinctive Images and The Clay Gourmet; (2) bags of water softener salt, from Culligan of Clay Center; (4) Verminator predator calls; (1) processed hog, from Cott Family Farms and Clay Center Locker; can goods basket from fall 2013; (3) metal cutouts, made by CCHS Ag Dept.

Battery powered Case IH kids tractor w/loader, from BIC, Clay Center; Big Farm big scoop toy tractor, from CTI, Clay Center.

Agriculture Items: 1979 International Transtar 2 semi tractor, cabover, twinscrew, 250 Cummins, 13 sp., low mileage, good tires; Speedking 6ft. box blade, pull type, new blade; (10) small square bales alfalfa, twine tied, 190rv; 10 bales prairie hay, twine tied, 65-70 lbs each; 10 small square straw bales, 2012, from AG Farms & Cattle; (5) small square brome bales, wire tied; cattle mineral from Key Feed, Clay Center; (2) bags Pioneer corn, (6) bags Pioneer soybean, (2) bags Pioneer milo seed, from Reed Seed, Clay Center; 40 ac. Grid soil sampling, Farmway Co-op; 5 gal. Glystar, 2 gal. Crossbow,

from Wilbur Ellis; 5 gal. Makaze, from CPS, Clay Center; small pickup load of hedge firewood; 100 line hedge posts; set of (4) funnels w/caps, from Morganville Co-op; calf hay feeder, holds hay & grain.

Truck bedliners & parts: (2) truck bedliners, one for Dodge 94-01, one for Dodge Dakota; 2011 Dodge Ram front bumper, very clean; Ford 6 ft. truck top-per.

Household & office equipment: Lexmark printer/copier/fax machine; RCA 36" table top TV; Magnavox 24" table top TV; 27" table top TV; RCA 32" table top TV; navy blue sleeper couch, double bed size; antique electric fan; antique tabletop scales; metal utility cabinet.

Tools: 18" pipe wrench, from Morganville Building and Decorating; 3/4" socket set, Porter-Cable router and table; bolt cutters; Handyman jack; bench grinder; hand saws and levels; soldering gun; propane torch; circular saw; belt sander; pump jack; (15) flats full of hand tools; (2) step ladders.

Lawn & Yard Care: MTD snowblower, 4.5 hp, 21", electric start, 2004 model; lawn fertilizer spreader; Craftsman weed eater; Stihl chainsaw, model 021; hedge trimmer; rakes and hoes.

Lumber: oak and cedar lumber, various lengths.

NOTE: We are still taking items for consignment or donation. Please contact Matt Baxter (632-0705), Allan Schmale (632-0757), or Colby Urban (630-0803)

TERMS & CONDITIONS: Cash or personal check w/proper ID. All items must be paid for before removal. Statements made day of auction take precedence over printed material. Not responsible for accidents or lost items. Mugler Auction LLC is agents only.
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<p>3737 Sire - CL1 Domino 860U BW 2.8 WW 52 YW 92 MILK 28 M&G 54 Carcass... REA .17 MARB .05</p>	<p>3732 Sire - CL1 Domino 860U BW 3.6 WW 56 YW 98 MILK 27 M&G 55 Carcass... REA .21 MARB .02</p>	<p>3601 Sire - JA L1 Domino 1602Y BW 2.6 WW 50 YW 82 MILK 26 M&G 51 Carcass... REA .28 MARB .05</p>
<p>3710 Sire - CL1 Domino 860U BW 4.3 WW 60 YW 102 MILK 29 M&G 59 Carcass... REA .26 MARB .08</p>	<p>305 Sire - HH Advance 1098Y BW 3.4 WW 57 YW 91 MILK 31 M&G 59 Carcass... REA .33 MARB .00</p>	<p>3305 Sire - CL1 Domino 9125W BW 3.7 WW 58 YW 89 MILK 30 M&G 59 Carcass... REA .18 MARB .06</p>

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Step away from the horse and wait for his reaction. If he moves, step to him and give a few downward tugs on the rope near the halter snap and say "Whoa" and step away again.

Continue this until he remains in place. If he walks away several steps, move him back to where he started and give a few tugs. Keep this up until he remains in place. When the horse resigns himself to staying in the same place, try moving away a few more steps and see if he'll stay put. Here is where the repetition and patience come into play.

Once you've got him standing in place when you move away, start the same procedure but now begin walking around him. Take a few steps and stop. If he moves, go to his head and give a few downward tugs and give that famous verbal cue, "whoa." He knows what "whoa" means so the more you admonish him with that command when he moves, the more it will sink in and he'll relate it to standing still.

Work your way all the way back to his tail and up the other side. Eventually, he'll get the idea and will stand still while you walk around him and

move farther and farther away.

You won't accomplish ground-tying in one lesson but you can enforce the lesson every time you work with the horse. Get in the habit of dropping the lead line when you brush and groom him. If he moves, apply the same techniques you used when you started the lesson. Have him stand with the line lying on the ground below his nose. Work all around him and correct him if he moves.

Ground-tie him to saddle and tack the horse, and maybe even cleaning his hooves with the hoof pick. I find it particularly useful when trimming or shoeing the horse. Use every opportunity you can to utilize this valuable trait. The more you use it the more it becomes ingrained in the horse's training and soon they will know that when the reins are dropped on the ground, they should stand in that one place and not even think about wandering away.

A horse that ground-ties can add another positive mark on his training resume.

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

January posts decreased ag prices

The preliminary January price received by farmers for winter wheat averaged \$6.13 per bushel, a decrease of 59 cents from the December price according to the USDA's National Agricultural Statistics Service.

The preliminary January corn price, at \$4.23 per

bushel, is down 20 cents from last month.

The preliminary January sorghum price averaged \$7.27 per cwt, a decrease of 4 cents from December.

The preliminary January soybean price, at \$12.60 per bushel, is down 20 cents from last month.

The January alfalfa hay price, at \$172 per ton, is down from \$192 last month. The other hay price, at \$107 per ton, is down from \$113 last month.

The preliminary January sunflower price averaged \$20.00 per cwt, a decrease of \$1.60 from December.

Access the National publication for this release at:

<http://usda01.library.cornell.edu/usda/nass/AgriPric//2010s/2014/AgriPric-01-31-2014.pdf>

Find agricultural statistics for your county, state, and the nation at www.nass.usda.gov.

Frontier Extension District sets date for Agronomy Day

Planter and sprayer performance will be the topics covered at the Agronomy Day Meeting hosted by Frontier Extension District. This year's Agronomy Day Meeting will be February 18, 2014 from 10:00 a.m. till 3:00 p.m. at Celebration Hall, on the Franklin County Fairgrounds, in Ottawa. The meeting is free to the public and a sponsored lunch will be provided.

Yield potential can be lost as early as the day of planting according to university research. Many times this loss of yield is from variable plant spacing within rows and improper seeding depth or seed-to-soil-contact. Planter maintenance and set-up is the first step for getting a uniform stand. Ajay Sharda, KSU precision agricultural technology specialist, will be on

hand to discuss planter setup, calibration and the differences among row units of various manufactures.

John Slocombe, KSU ag and forage machinery safety specialist, will highlight sprayer calibration, tip se-

lection, nozzle spacing and drift control options for agricultural sprayers. In addition, Doug Shoup, Southeast Area Extension Agronomy Specialist, will be on hand to discuss herbicide options for corn and soybeans.

The meeting is hosted by Frontier Extension District. If you have questions or have special needs please call Rod Schaub or Darren Hibdon, district agents, at 785-828-4438 or 785-229-3520 respectively.

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* Offer valid from October 1, 2013 to February 28, 2014 on select new models of machines manufactured by Caterpillar Building Construction Products Division. Offer available only at participating Cat Dealers. Flexible payment terms available. Offer excludes Caterpillar Telehandlers. Offer is available to customers in the USA and Canada only and cannot be combined with any other offers. Financing and published rate are subject to credit approval through Cat Financial. Offer subject to machine availability. Offer may change without prior notice and additional terms and conditions may apply.

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 <p>SFI Look Ahead A85T B C Lookout x SFI Miss Betty Lou ASA# 2750237 • SimAngus™ 1/2</p> <table border="1" style="font-size: small;"> <tr><td>CE</td><td>BW</td><td>WW</td><td>YW</td><td>MCE</td><td>MM</td><td>MWW</td><td>MB</td><td>SAPI</td><td>STI</td></tr> <tr><td>10</td><td>.8</td><td>69</td><td>106</td><td>7</td><td>23</td><td>57</td><td>.41</td><td>120</td><td>76</td></tr> </table>	CE	BW	WW	YW	MCE	MM	MWW	MB	SAPI	STI	10	.8	69	106	7	23	57	.41	120	76	 <p>SFI Perfect Timing A6 SVF Dream Master T50 x SFI Livvy Duvy X13N ASA# 2757238 • Purebred</p> <table border="1" style="font-size: small;"> <tr><td>CE</td><td>BW</td><td>WW</td><td>YW</td><td>MCE</td><td>MM</td><td>MWW</td><td>MB</td><td>SAPI</td><td>STI</td></tr> <tr><td>7</td><td>.8</td><td>59</td><td>82</td><td>7</td><td>24</td><td>53</td><td>.18</td><td>124</td><td>66</td></tr> </table>	CE	BW	WW	YW	MCE	MM	MWW	MB	SAPI	STI	7	.8	59	82	7	24	53	.18	124	66	 <p>Brooks Driver A31 WAGR Driver 706T x Brooks Valentine Edition ASA# 2737176 • SimAngus™ 1/2</p> <table border="1" style="font-size: small;"> <tr><td>CE</td><td>BW</td><td>WW</td><td>YW</td><td>MCE</td><td>MM</td><td>MWW</td><td>MB</td><td>SAPI</td><td>STI</td></tr> <tr><td>8</td><td>3</td><td>63</td><td>92</td><td>8</td><td>19</td><td>50</td><td>.22</td><td>106</td><td>62</td></tr> </table>	CE	BW	WW	YW	MCE	MM	MWW	MB	SAPI	STI	8	3	63	92	8	19	50	.22	106	62
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GRASS & GRAIN Auction Sales Scheduled

February 11 — Coins at Jewell. Auctioneers: Thumel Real Estate & Auction, LLC.

February 12 — Real estate acreage, native pasture, pond, new fences, good location near Emporia for Duane & Dorothy Mounkes. Auctioneers: Hancock Auction & Real Estate.

February 12 — Tractors, combines, trucks, trailers, farm equipment of all kinds, lawn & garden & more online at (www.bigiron.com). Auctioneers: Stock Auction Co.

February 13 — Dickinson County farmland at Abilene for Eva Zumbunn Trust. Auctioneers: Reynolds Real Estate & Auction Co.

February 13 — Clover Cliff

Ranch acreage in 4 tracts (Flint Hills grass, dryland farm ground, hunting land, multiple homes, 50% mineral rights) at Emporia. Conducted by Hayden Outdoors Farm, Ranch & Recreational Real Estate.

February 15 — Coins at Portis. Auctioneers: Wolters Auction.

February 15 — Motor home, 2 L&G tractors, garden equipment, motorcycle, pickups, household, hand tools at Quenemo for Dolly W. Wittman & Chris Sauers. Auctioneers: Wischropp Auctions.

February 15 — New items & services, agriculture items, truck bedliners & parts, household & office equipment, tools, lawn & yard care, lumber at Clay Center for Clay Center

FFA Alumni Association. Auctioneer: Mugler Auction Service, LLC.

February 15 — Tools, tools, tools at Salina. Auctioneers: Wilson Realty & Auction Service.

February 15 — Machinery, tractors, combines, trucks, farm equipment at Wellington for Allen Weber. Auctioneers: Ken Patterson Auctions.

February 15 — Old advertising signs, vintage Winchester items & military items, glassware, clocks & collectibles, furniture, electronics, musical instruments & misc. at Junction City for a local collector. Auctioneers: Brown Real Estate & Auction Service, LLC.

February 15 — Fundraising auction at Manhattan for The Senior's Center. Auctioneers: Gannon Auctions

February 15 — Costume jewelry, glassware, artwork, coins, power toy engines, new & collectible furniture at Lyons. Auctioneers: Oswalt Auction Service.

February 15 — Pottawatomie County native grass pasture land at Onaga for Jerold J. Collins. Auctioneers: Cline Realty & Auction, LLC.

February 16 — Pop-up camper, furniture, household, & more at Manhattan for Hans Hart Estate. Auctioneers: Gannon Real Estate & Auctions.

February 17 — Real estate (acreage) S. of Osage City. Auctioneers: Miller & Midyett Real Estate.

February 17 — Real estate

at Clay Center for Larry & Laura Gibbs. Auctioneers: Clay County Real Estate, Greg Kretz, salesman & auctioneer.

February 18 — Washer, dryer & appliances at Manhattan for inventory reduction at Appliance Doctors. Auctioneers: Ruckert Realty & Auction.

February 18 — Land & home (producing farmland, timber w/meadows, hunting, future development) at Manhattan. Auctioneers: Mayo Auction & Realty.

February 19 — Tractors, combines, trucks, trailers, farm equipment of all kinds, lawn & garden & more online at (www.bigiron.com). Auctioneers: Stock Auction Co.

February 20 — Tractors, hay & livestock equip., trucks, vehicles, trailers, grain handling, planting, cultivating & spraying, tillage,

harvest, construction, antique machinery & misc. at Tekamah, Nebraska for farm machinery consignment. Auctioneers: Lee Valley, Inc.

February 20 — Clay County & Washington County farmland at Clay Center for ICEF Oberg, Inc. & Oberg Farms, LP. Auctioneers: Clay County Real Estate, Greg Kretz, salesman & auctioneer.

February 21 — Machinery auction at Clay Center. Auctioneers: Mugler Auction Service.

February 22 — Toy tractor collection, guns, trailer, tools & household at Russell for Clint & Staci Straub. Auctioneers: Rohleder Auction & Realty.

February 22 — SUV, Antiques & collectibles, jewelry, golf collectibles, household at Salina for Ada Wood Trust. Auction-

FARM MACHINERY AUCTION MONDAY, MARCH 3 — 11:00 AM

Due to health issues, we will sell our farm equipment, located 1 mile west of WHITING, KS, along the north side of KS Hwy. 9. Lunch on Grounds. **SALE ORDER: Misc., Shop Items, Livestock Equip., Trucks, Tractors & Machinery**



TRACTORS & LOADERS
2012 John Deere 6430 Premium tractor with front wheel assist, AC cab w/ instructor seat, 68 original hours, 24 speed power quad range, grill guard, 460-85R-38 tires, dual outlets, always shedded, **LIKE NEW** — This tractor sells as a unit with a 2012 No. 673 self-leveling loader w/ a 7 ft. bucket — **NEW CONDITION**; IHC Farmall 1456 dsl. tractor, 6051 hrs., 3 pt. hitch, TA, 18.4 X 38 good tires, front weights, original owner — Bought new; H Farmall tractor, NF, new rear tires; 2012 Bobcat S750 2 sp. skid loader w/ 80 in. bucket, AC and heated cab, selectable joysticks, hand controlled, **50 original hrs.**, high flow pump; Pair of skid loader steel tracks, **NEW** — Never used; Pallet forks for skid loader; Skid loader bale spear; Dymax tree shear — **Like new**; Skid loader mounts.

TRUCKS, TRAILERS & ATV's



2008 Chevy Silverado LT 2500 HD 4 X 4 w/ 24,021 miles, Duramax dsl. motor, Allison transmission, crew cab, leather seats, PS, PW, spray in bed liner, goose-neck ball hitch, **NEW CONDITION** — always in garage; 1983 Ford LTL 9000 truck w/ dual tandem axle, Fuller 13 sp. Road-ranger trans., 609,741 miles w/ later model 20 ft. Combo all steel bed with Shur-Loc rollover tarp — Good shape; 1990 Peterbilt model 379, VIN — 1XP-5DB9X-0-LD298289, CAT 3406 B model motor, 13 sp. trans., flat top sleeper, 811,875 miles, L-R-24.5 tires, wet kit, air ride suspension, all aluminum rims — Good shape; 2004 Timpte Super Hopper 42 ft. aluminum grain trailer w/ Shur-Loc rollover tarp — good rubber — A-1 shape; 1990 Sooner 24 ft. aluminum stock trailer w/ 1 sliding center gate; 2006 Titan 24 ft. flatbed trailer with flop-up ramps — Good; 18 ft. all steel goose-neck, flatbed trailer w/ tandem axles; Shop built 12 ft. gooseneck trailer w/ steel floor and dual wheels; Polaris Ranger 500 4 X 4, 153 hrs., electronic fuel injection w/ permanent windshield — Very good; Honda Rincon 4 X 4 4 wheeler, 970 miles w/ front and back rack — Good.

MACHINERY
Brent Unverferth 1080 grain cart SN-B23140-138, corner unload, rollover tarp, 35-5L-32 tires — Very good; 23 ft. Landoll 7431 VT

plus turbo till SN-74C1101277 — **Near New** — shedded; 28 ft. Case IH Tiger-mate II field cultivator w/ 4 bar harrow, walking tandems, gauge wheels and hazard lights, SN-JFH0026638 — Good; John Deere 712 11 shank soil saver; IHC 510 5 X 16 in. steerable plow; IHC 7 shank V plow, 3 pt.; Older John Deere manure spreader w/ double chain, sloop gate and tandem axle; Doda PTO 1000 RPM lagoon pump; Country Welding 12 ft. heavy duty pull-type box scraper w/dual wheels, very good; Heavy duty BMB Earth Brute 9 ft., 3 pt. blade w/ 2 hnd. cylinders for tilt and swing; BMB 3 pt., 6 row Danish tine cultivator; dk vac-u-vator model 6NF grain vac, SN-252314 w/ 540 PTO — Good; Danuser post hole digger w/ 12 in. & 9 in. augers; John Deere HX15 pull type rotary mower, SN-WOHX15F003931; 3 pt. Big John Equipment mist blower sprayer w/ 3 nozzles & hand gun w/ 55 gal. tank — (**NEW** — Never used); Older automatic mist blower w/ hyd. tilt — salvage; Model 320-E MC grain dryer; Massey Ferguson 6 bar hay rake; 2 — 500 gal. poly tanks on steel frame w/ transfer pump and valves; 2 — 200 gal. poly tanks on frames; Pair of poly saddle tanks w/ frames; Heinzman Traveler 7245 traveling irrigation gun w/ hose; Approx. 75 pieces of 30 ft. X 6 in. aluminum irrigation pipe; Approx. 75 pieces of 30 ft. X 4 in. aluminum irrigation pipe; Older tandem axle fert. spreader — salvage.

LIVESTOCK EQUIPMENT
2 ton bulk feed bin; Small Pride of the Farm calf creep feeder; Small aluminum Smidley pig feeder; Several metal portable cattle panels and asst. metal gates of all sizes; Wire hog panels; Several Pride of the Farm hog feeders; 28 "J" concrete bunks w/ pipe neck rail; Approx. 200 ft. of 6 bar continuous fence w/ pipe posts (To be taken down); **Hereford parade saddle w/ lots of silver.**

SHOP TOOLS & MISC.
Coleman Power Mate 6875 11 hp. portable generator; Hawk Power 6700 watt portable generator w/ electric start; 2 New and 2 used LB White propane heaters; Hobart model 125EZ wire welder (**NEW** — in box); Millermatic 200 welder; Hyd. jack shop press; Makita chop saw; Carolina 4000 lb. Shop Hand motor jack; Sears Craftsman drill press; Acetylene torch w/ cart; Hotsy hot water power washer — Good; 8 ft. X 4 ft. X 42 in. high, heavy duty metal shop table — Very good; Gas powered, portable air compressor; Reddy Pro 165 165,000 BTU space heater; 2 small Fimco sprayers; 1 Fimco boom & hand gun sprayer w/ 50 gal. poly tank; 100 gal. portable fuel tank w/12 V pump; C clamps Jack stands metal pickup bed tool box; 1994 Ford pickup bed w/ tail gate — Good; Old antique 4 wheel, pull type road drag.

For more information or viewing, please call: Jason Jones, 785-806-2884. **AUCTIONEER'S NOTE:** If you are looking for near new, well cared for machinery, be sure to attend this auction
TERMS: Cash or Valid Check. Not responsible for Accident or Theft. Statements made sale day take precedence over printed material.

SELLER: ROYALE FARMS

RICHARD & OPAL FEATHERSTON

AUCTION CONDUCTED BY: CLINE REALTY & AUCTION, LLC

John E. Cline, Broker-Auctioneer

Onaga, Kansas • 785-889-4775

www.mclivestock.com/clinearity

FARM MACHINERY CONSIGNMENT AUCTION

THURSDAY, FEBRUARY 20 — 8:30 AM Sharp

At Lee Valley, Inc., 6 miles north of TEKAMAH, NEBRASKA

We Will Be Running 2-3 Auction Rings All Day

TRACTORS: JD 9400 4x4 Quad Range; JD 8310 MFWD, '01, 7700 hrs.; JD 8220 MFWD, '02, 9100 hrs.; JD 7830 MFWD, PQ; JD 7630, MFWD, PQ, 8100 hrs.; JD 7810 MFWD, PS, 7000 PS; JD 7810, MFWD, PQ; JD 7230, MFWD, PQ, 5100 hrs.; JD 6430, MFWD, PQ, 4100 hrs., w/673 ldr.; JD 7220, MFWD, 3600 hrs., w/563 ldr.; JD 5625, MFWD, 559 hrs.; JD 4960, MFWD, 9100 hrs.; JD 4960, 2WD; JD 7810, MFWD, w/740 ldr.; JD 4640 PS, 1979, 18.4x38 w/duals; JD 4430 PS, 1975, 4950 hrs.; JD 4840 w/duals; JD 2940 MFWD, cab, w/JD 740 ldr.; IHC 1086, 5000 hrs., 1980; IHC 1066, red cab, w/WL42 ldr.; IHC 1066 w/cab; AC 7050; JD 4620, restored; JD 2010 Gas, row crop, MOH w/Stanhoist ldr.; MF 20C, 3-pt., PTO, turf tires; Ford 230A, utility 3-pt., PTO, turf tires; Belarus 822 MFWD, cab, MOH; IHC 806, WF, 2-pt.; JD 4020, factory cab, 1969, Syn., w/158 ldr.; IHC 656 Gas; IHC 706 Gas, WF, 3-pt.

HAY & LIVESTOCK EQUIPMENT: JD 956 MoCo, 14'; Knight 3575 Reel-Auger Feed Wagon; Turbo Max 6056 Feed Wagon; JD 566 Baler; JD 535 Baler; NEW 80 - 20' 6-Bar Continuous Panels; NEW 40 - 12' Portable Corral Panels; Hoelscher Bale Fork; Vermeer 23A Hay Rake; New IA Portable Silage Hay Feeder; NEW IA Portable Hay Feeder; JD CX20 Batwing, 1000 RPM; IHC 2350 Loader, 86 mts.; Haybuster 2620 Bale Processor; IHC 1475 Windrower, 16'; IA 625 Bale Trailer; JD 285 Disc Mower, 2010; JD CX15 Batwing Shredder; JD 740 Loader; Westendorf 457 Loader, JD 55 MFWD mts.; Hardy Extreme Loader, JD 6000 mts.; CrustBuster 15' Batwing Shredder; Kelly Ryan 5x10 Feed Wagon; FH 6-Chain Stack Mover; JD 27 Flail Shredder; Vermeer 605H Round Baler; Brehmer Hyd. Hog Cart w/ scale; IHC Sickle Mower; Westendorf 5' QT Bucket w/grapple fork; IHC 950 Grinder-Mixer; Bush Hog 1600 Shredder; Kelly Ryan 5x12 Feed Wagon; Semi Load 4x4x8 Square Cornstalk Bales; Kelly Ryan 4x12 Feed Wagon; Kelly Ryan 4x10 Feed Wagon; Westendorf TA-46 Loader; NH 277 Twine Baler; Baasch Portable Livestock Loading Chute; NH 450 Sickle Mower; Powder River Manual Squeeze Chute; NH 850 Round Baler; STIREX 5-Wheel Rake; JD Hay Grapple Fork; JD 68 Auger Wagon; PTO Roller Mill; Kewanee 178 Blade; Hog Slat Bulk Tank; Phoenix Calf Creep Feeder; PAX 1.5T Bulk Bin; 3-Pt. Bale Mover; Wooden Feed Bunks; Misc. Gates & Livestock Equipment; Ford Sickle Mower; 6' Stock Tank; JD 200 Stacker.

TRUCKS, VEHICLES & TRAILERS: 1999 Kenworth W900L, 3406 E Cat, auto shift w/Carrier power unit; 2005 Timpte, 42x102, 78' sides; 2009 Wilson, 42x66, ag hopper, tarp; 1975 Chevy C65, 366, 5 & 2, 17' box; 1983 IHC S1900 Tandem Dump Truck, DT466, 10-sp., MOH; 1986 GMC C7500 w/1600-gal. SS tank; 1985 Ford F7000 Diesel w/10T dry box; 1992 Triple-Axle Dozer Trl; 1986 GMC C7000 Plastic Box, metal floor, livestock rack; 1993 Ford F250, 7.3 diesel, 5-sp.; 1967 Ford F700, V8, 5&2, 16' box, tarp; 1971 IHC 1600, V-8, 4&2, box & hoist; NEW D & D 25' Gooseneck Flatbed; NEW D & D 32' Gooseneck Flatbed; New MAXEY 18' Utility Trl.; New TIGER 20' Utility Trl.; NEW TIGER 16' Utility Trl.; 1972 Ford F600, gas, 5&2, 18' combination box; 1968 Willys 40' Flatbed Semi w/3-1,600-gal. tanks; 1981 Stoddard 8x18 Gooseneck Livestock Trl.; 2002 Dodge Cargo Van; 20' Gooseneck Flatbed; Fruehauf Single-Axle Flatbed; Heavy-Duty Tandem-Axle Dually Trl.; 1994 Transcraft 45' SA.

GRAIN HANDLING: Convey-All 10'x90' Belt Conveyor, electric drive; NEW Arts-Way 10x32 PTO Auger; Orthman 608 Grain Cart; Parker 510 Grain Cart, scale, new augers; Brent 410; Brent 610, new gear box; Feterl 12x112 w/hyd. swing; Peck 10x76 DD Mech; Peck 12x72 DD Auger; Peck 10x71 DD w/PDK, 2004 model; Peck 8x31 Hyd. w/bin hopper; Parker 2600 Gravity Wagon w/hyd. auger, self-contained; Peck 10x61 DD Mech.; Brandt 4000 EX Grain Vac; A&L 650T Grain Cart; Brent 450 Gravity Wagon; Gooseneck Gravity Box Seed Tender, self-contained w/conveyor; Alloway DD 1405 Auger, 10x71; Sheyenne Westgo DD 1405 Auger, 10x71; Peck 8x56 Auger; Peck 8x61 Auger; 150-Bu. Gravity Wagon w/hyd. auger; Peck 8x56 Auger, elect., w/10-h.p.; A&L 425 Grain Cart; Peck 8x31, PTO; NEW Pre-cleaner for 3000-bu. leg; Slagal 18x6 Electric Conveyor; Huskee Gravity Wagon; Neco 40' Sweep Auger, 8", new.

PLANTING, CULTIVATING & SPRAYING: JD 1790, hyd. drive, 16R31, w/fert. coulters; White 6186, 16R30 w/row cleaners; Friesen 220 Seed Tender w/vac fill; Schaben 13-Coulter Sidedresser, 1000-gal.; Kinze 2300 Planter, 16RN w/3000 monitor; White 6342 12R13; Bestway 1000-Gal., 60', XL fold, tall tires, 844 monitor; Sprayer Specialty 1000-Gal., NF tank, 60' boom, '05 model, tall tires, foamer, Raven monitor; JD 7200 16RN, finger pickup w/trash whipper; JD 7200 8RW Wing-Fold, vac, Yetter cleaner; JD 7000 16RN w/liquid fert.; JD 7100 12R18 Bean

Planter; JD 7000 12RW Planter; JD 16R 7000; JD 7000 19R15'; White 5100 8RW w/6700 Interplant, 7R no till; JD 7000 15R20 Folding Bean Planter; JD 7000 8RW w/Brehmer fold; Kinze 8RW Folding Planter; Seed Shuttle SS290 w/trl.; Meridan 240 RT Seed Tender, scale, 8" conveyor; Friesen 110 Seed Tender w/trl.; Friesen 240 Seed Tender w/trl.; ROTH Seed Caddy, 4 box; DMI 42' AH Machine; Big A 2000 Floater w/dry box; Friesen 220 Seed Tender; DMI 4250 AH 15-Knife w/controller; B&B 60' Spray Boom w/controllers; 11R Liquid Fert. Bar w/John Blue pump; 16-D Planter Pro - No-Till Coulters w/trash wheels; 16 - JD Single-Disk Fert Openers; Bufflo 6RW Folding Culti.; 6 - JD Single Disk Fert. Openers; 10 - JD Single Arm No-till Coulters; 11-Shank AH Machine; 12 - Yetter Narrow-Row Trash Whippers; Hiniker 6000 8RN Cultivator; Yetter 1600-Gal. All-Steel Cart; Hiniker 5000 Culti., 6R; Tandem-Axle Homedade 1500-Gal. Nurse Tank; 1000-Gal. Pull-Between Sprayer Tank; Kewanee 12RN Flat-Fold C Shank Cult.; 1000-Gal. Nurse Tank w/pump.

TILLAGE: 2010 Case IHC 330 Turbo Till, 25', 800 acres; JD 985 FC, 52'; Kewanee 25' Cultipacker w/Valmar 1210 seeder; JD 724 Mulch Finisher, 25'; IHC 501 Plow Disk, 12'; Case IHC 496 Disk, 22.5'; NEW BLADES; JD 235 Disk, 30'; Case IHC 4900 FC, 38'; Wil-Rich 3400 FC, 28'; JD 650 Disk, 30'; Case IHC 496 Disk, 22.5'; Krause 4200 FC, 25'; Kewanee 1010 Disk, 18.5' w/harrow; IHC 490 Disk, 24' w/harrow; Hesston 2240 FC, 25'; Big Ox V-Ripper, 9-shank; IHC 475 Disk, 21' w/harrow; Case K39 Disk, 25'; AC 24' FC; IHC 300 Disk, 14'; Pivot Track Closer, 3-pt.; Noble 4-Sec. Harrow w/cart.

HARVEST: JD 9600, duals, chopper; JD 635 Flex; JD 920 Flex; NH 73C Platform, 30', CR mts; JD 543 Corn Head; Case IHC 1020 Flex, 20'; MD Stud Master TA32' Header Trl. w/fenders; New IA 430 Header Trl.; New IA 435 Tandem Header Trl.; HT 30' Head Trl.; MD 30' Head Trl.
CONSTRUCTION: Case 1845C, diesel; Cat 262B Skid Steer, AC & heat, 800 hrs.; 2000 Daewoo Mega 250-3 Payloader; JD 544 B Payloader; Gehl 7810 Skid Steer; AC 605B Payloader; Soilmover 1200 Push Off Scraper; Soilmover 50RF Scraper; Cat D7E Cable Dozer, #47A2288; New 12' Feedlot Box Blade; AC GC Crawler Loader; Hydra-Mac 20C Skid Steer w/backhoe, pallet forks; Hough 30 Payloader; Ashland Dirt Scraper; Skid Steer Post & Tree Puller; Skid Steer V-Cutter Tree Shear; Semi Load of Assorted New Pallet Forks, Hyd. Augers, Grapple & Rock Buckets,

Bale Spears & Attachments.
ANTIQUE MACHINERY: Ford 640 w/ldr.; JD 3010, diesel, WF; Case 730 Diesel. IHC H. JD Yakamaha 3-Pt. Hitch; Oliver 4B Steerable Plow; JD 44 Pull-Type 2B Plow; JD 2R Lister; JD 2B Pull-Type on steel; IHC 3B Plow, 2-pt.; AC 2R 3-Pt. Planter; Horse-Drawn 2R Planter; Pull-Type Road Grader; JD Slab Wts.; JD Double-Slab Wts. w/brkt.; JD 10-20 Rear Wts.; IHC Rear Wts.; IHC 100-lb. Suitcase Wts.; Ford 8N Belt Pulley; JD 2-Way Cylinders; JD Steel Runing Gear.

MISCELLANEOUS: Leon 12' Dozer Blade, 6-way hyd. w/JD 8640 mts.; Otter Dozer Blade, JD 9000 mts.; NEW Allied 150120 3-Pt. Hyd. Blade. IA 155 3-Pt. Hyd. Blade; IA HD9H 3-Pt. Hyd. Blade; NEW 10' Hyd. Tilt-Box Scraper; NEW 10' Box Scrapers; NEW 12' Box Scrapers; Case 716C Snow Blower, 3-pt.; Donahue 28' Impement Trl.; Wilmar Super 600 Fert. Spreader; DuoLift Fert. Trailer w/2500-gal. tanks; 11x30 Blu-Jet AA Bar w/pump; 2012 Honda Rincon 4-Wheeler; Dayton PTO Generator, 35,000 watt; Demco Side Quest 1000-Gal. Saddle Tanks w/hoses; Snow King 7' 2-Stage Snow Blower; JD 4960 Dozer Blade; Glencoe PD-10 3-Pt. Rotary Ditcher; Barron Ironstar Pickup Flatbed; Soilmover 2.5-Yd. Push-Off Scraper; Westendorf QT Pallet Forks; Yamaha 4-Wheeler; New Idea 8' 3-Pt. Snow Blower; Bush Hog 7' 3-Pt. Cutter; 4 - 24.5R32s - 50%; 2 - 14.9R34 Goodyears - 80%; 1000-Gal. Fuel Tank w/pumps; 2 - 18.4R46 Goodyears - 80%; Pr. 13.6x38 Tires; 4 - 320R42 Sprayer Tires; Pr. 66x43x25 Tires, 10 Ply - 90%; Kinze 24" Grain Cart Tracks, 75% tread; 8" Gated Irrigation Pipe; Irrigation Pipe Trl.; 2 - Hyd.-Drive Augers/JD bulk fill planter; Bridge Planks; 1000-Gal. Fuel Tank; Rink Super Brute 2-Pt. Blade; Gnuse Highlift Scoop; Rink 11' NE Surplus Snow Blade w/plastic moldboard; IHC 100# Suitcase Wts.; Nelson End Gun on stand; 20- 18' 1 1/4" Pipes; 12' Maintainer Blade; Dual Pallet Forks; 500- & 1500-Gal. Poly Tanks; Misc. Running Gears; Fiberglass Pickup Utility Box; Cargo Box, 8x16.5. 4 - Trailer House Hubs, Rims w/brakes; Craftsman 2-Drawer Top Chest Toolbox; Craftsman 3-Drawer Toolbox; Misc. Craftsman Tools; Yamaha 4x4 Grizzly 4-Wheeler; 3 - 200-Gal. Plastic Fert. Tanks; Misc. Pivot Tires; White 22.5 Budd Rims; 12x8 Garage Doors w/opener; 2 Used AaLadin Hot Water Power Washers; Degelman Dozer Blade, 4-way, JD 8030 Series; 5'x30" Culvert. Misc. Culverts; Semi Load of Hardsteel Tin & Red Iron; Coleridge Welding 700 & 800-Gal. Fuel Trailers.

All machinery is subject to prior sale. Hundreds of pictures online. **TERMS & CONDITIONS:** Cash or good check. No property to be removed until settled for. All items to be paid for during or at close of auction. Not responsible for accidents, lost or stolen items. Financing available with prior approval. **TRADING DAILY—LIST SUBJECT TO CHANGE.** This is a partial listing as we are expecting a lot more machinery by sale time. If you have machinery to sell, call us. We have good loading and unloading facilities with trucking available to and from the sale. We have consigned a lot of good local farm machinery, including some complete farm sales. We will take consignments up to sale time. **AS IN THE PAST, WE ONLY ACCEPT CONSIGNMENT ITEMS THAT WE THINK WILL SELL. IF YOU HAVE BEEN TO OUR SALES IN THE PAST, YOU KNOW WE SELL MACHINERY. MOTEL ACCOMMODATIONS:** Tekamah Motel, Tekamah, Nebr., 402-374-9954; Super 8 Motel, Onawa, Iowa, 712-423-2101; Super 8 Motel, Blair, Nebr., 402-426-8888. **AIRPORT FACILITIES AT TEKAMAH.**

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• Scott L. Olson, 402-870-1140

All machinery is subject to prior sale. Hundreds of pictures online.

Check out our auction website at leevalley.net

Pictures will be updated daily!

eers: Thummel Real Estate & Auction, LLC.
 February 22 — Consignment auction benefitting Riley County FFA. Contact: Jeff Rucket.
 February 22 — Household, glassware, furniture, quilts, antiques, collectibles, tools, lawn & garden items at Abilene. Auctioneers: Chamberlin Auction Service.
 February 22 — Tractors, machinery, construction equip. & materials, outdoor equip., tools, building materials at Spring Hill for consignments. Auctioneers: Southern Johnson County Auction Service.
 February 22 — Herefords & Quarter Horses at Cottonwood Falls for TS Ranch.
 February 22 — Bull sale at Wamego for Gold Bullion Sale.
 February 23 — Furniture & collectibles at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.
 February 23 — Real estate & personal property at Burlingame for property of Jean Powell. Auctioneers: Griffin Real Estate & Auction Service, LC.
 February 23 — Firearms & scopes NE of Manhattan at Flush for private collector. Auctioneers: Cline Realty & Auctions, LLC.
WEATHER DATE: February 25 (for February 20) — ICEF Oberg, Inc. & Oberg Farms, LP real estate auction at Clay Center. Auctioneers: Clay County Real Estate, Greg Kretz, salesman & auctioneer.
 February 24 — Cleveland County, Oklahoma real estate at Noble, Oklahoma. Auctioneers: Farmers National Company.
 February 25 — Pratt County real estate at Pratt. Auctioneers: Farmers National Company.
 February 25 — Mill Creek Ranch "Brand that

Works" production sale, Hereford & Angus bulls & female at Manhattan.
 February 26 — Riley County acreage at Manhattan. Auctioneers: Farms National Company, Fred Olsen, farm manager/agent.
 February 26 — Riley County real estate at Manhattan. Auctioneers: Farmers National Company.
 February 26 — McPherson County real estate at McPherson. Auctioneers: Farmers National Company.
 February 28 — Marion County cropland & acreages at Hillsboro for Jake D. & Mary Thiessen Trusts. Auctioneers: Lepple Realty & Auction.
 February 28 — Annual bull sale at Lost Springs for Cow Camp Ranch.
 February 28 — Bull sale at Quinter for Jamison Herefords.
 March 1 — Tractors, forklift, trailers, truck, equipment, boat, tools, household & misc. at Linwood for Robert L. Elder Living Estate. Auctioneers: Mark Elston & Wayne Wischropp.
 March 1 — Pottawatomie County farmland & pastureland at Onaga for Ken Teske. Auctioneers: Cline Realty & Auctions, LLC.
 March 1 — Marshall County Real estate at Marysville (3 farms) for Jerry & Jean Nordhus; Josepha Nordhus Trust; and Nordhus Family. Auctioneers: Donald Prell Realty & Auction.
 March 1 — Pottawatomie County real estate (native grass pasture, creek, timber, wildlife habitat) at Westmoreland for Michael & Joanna Carina. Auctioneers: Pearl Real Estate & Appraisal Service.
 March 1 — Farm machinery & miscellaneous at Green for Bruce Dodds. Auction-

eers: Kretz & Bloom Auction Service.
 March 1 — Consignment sale at Salina. Auctioneers: Wilson Realty & Auction Service.
 March 1 — Annual bull sale at Pomona for Judd Ranch.
 March 1 — production sale at Pawnee Rock for Loving Farms.
 March 3 — Rush County real estate at Hays for David Legleiter. Auctioneer: Farmland Auction & Realty Co., Inc.
 March 3 — Late model farm machinery at Whiting for Royale Farms, Richard & Opal Featherston. Auctioneers: Cline Realty & Auctions, LLC.
 March 3 — NW Kansas & SW Nebraska Farm & Ranch land (irrigated, dryland, pasture, hunting, investment) at Colby. Auctioneers: Hall and Hall Auctions.
 March 3 — 26th Annual Angus Bull Sale for Lyons Ranch at Manhattan.
 March 4 — Riley County real estate (flint hills rangeland located 8 mi. from Manhattan) at Manhattan. Auctioneers: Farmers National Company.
 March 5 — Farm & industrial consignments at Beattie for Rottinghaus Consignment Auction. Auctioneers: Rottinghaus Auction.
 March 5 — Real estate at Salina for Matt Wagoner. Auctioneers: Wilson Realty & Auction Service.
 March 5 — Production sale at Agra for Spring Valley, LTD.
 March 6 — Jackson County land (brome & native grass mixes, timber, pond, good hunting) at Delia for Vinita G. Stauffer Trust. Auctioneers: Branam's Real Estate & Auctions.
 March 7 — Bull & female sale at Manhattan for KSU

Legacy Sale.
 March 8 — Southern Nemaha County pastureland, farmland & farmstead at Corning for Jerry & Lois Johannes. Auctioneers: Cline Realty & Auctions, LLC.
 March 8 — scissor lifts, trailers, forklift, welder/generator, ladders, ceiling tile at Salina for Delbert Chopp Co. Auctioneers: Wilson Realty & Auction Service.
 March 8 — Harley Gerdes Consignment Auction at Lyndon.
 March 8 — Concordia Optimist Club Annual Machinery auction at Concordia, KS.
 March 8 — Production sale at Maple Hill for Mill Brae Ranch.
 March 10 — Bull sale at Salina for Don Johnson Angus.
 March 11 — Production sale at Phillipsburg for Bar Arrow Cattle Co.
 March 12 — Production sale at Kingman for Stucky Ranch.
 March 14 — Production sale at Olsburg for Good Farms.
 March 14 — Production sale at Paradise for Bar S Ranch.
 March 15 — Farm machinery & equipment at Ellsworth for Don Long Estate. Auctioneers: Wilson Realty & Auction Service.
 March 15 — Bull sale at Westmoreland for R&L Angus.
 March 17 — Meade County real estate. Auctioneers: Farmers National Company.
 March 17 — Production sale at Claflin for B&D Herefords & Beran Brothers Angus.
 March 17 — Bull & female sale at Leonardville for Lindell Angus.
 March 18 — Production sale at Cottonwood Falls for

Hinkson Angus Ranch.
 March 19 — Production sale at Overbrook for May-Way Farms & Woodbury Farms.
 March 20 — Production sale at Esbon for Benoit Angus Ranch.
 March 22 — Farm machinery, tools, antiques, household S. of Wayne for Frank & Juanita Beneda. Auctioneers: Novak Bros. & Gieber.
 March 22 — Car, pickup, coins, antiques, collectibles, tools, jewelry, household, furniture & appliances at Abilene for Melvin & Stella Rufener. Auctioneers: Chamberlin Auction Service.
 March 22 — Older farm machinery, antique machinery, tools, unique collectible farm items, 4x4 side by side UTV, household W. of Alma for Esther & the late Kenny Brabb. Auctioneers: Murray Auction & Realty.
 March 24 — Production sale at Dwight for Oleen Brothers.
 March 25 — Consignment auction at Greensburg. Auctioneers: Ag Auctions.
 March 25 — Bull sale at Eureka for Sunn Cattle Company.
 March 25 — Production sale at Mankato for Black Velvet Cattle.
 March 26 — Production sale at LaCrosse for Pelton's.
 March 27 — Production sale at Strong City for Murrush Red Angus.
 March 29 — Farm machinery, tools, antiques, household NE of Cuba for Keith Zenger Estate. Auctioneers: Novak Bros. & Gieber.
 March 29 — JD yard tractors, ATV, welder, torch,

plasma cutter, power tools, hand tools, antiques & much more at Abilene for Melvin & Stella Rufener. Auctioneers: Chamberlin Auction Service.
 March 29 — Antique tractors, machinery, Cub Cadets, pickup, farm related items, IHC parts at Moundridge for Gregory & Janice Meyer. Auctioneers: Van Schmidt.
 March 29 — Production sale at Gorham for Dickinson Ranch.
 April 4 — Machinery, recreational & lawn care auction at Clay Center. Auctioneers: Mugler Auction Service.
 April 7 — Production sale at Lorraine for Green Garden Angus.
 April 27 — Household & antiques at Manhattan for Tom & Helen Unterberger. Auctioneers: Mugler Auction Service.
 May 26 — Harley Gerdes 21st annual Memorial Day Consignment auction at Lyndon.
 September 1 — Harley Gerdes 19th annual Labor Day Consignment Auction at Lyndon.
 September 5 — Machinery auction at Clay Center. Auctioneers: Mugler Auction Service.
 September 26-27 — Kansas Barn Alliance BarnFest Conference/Tour, Dickinson County.
 November 1 — Harley Gerdes Consignment Auction at Lyndon.
 November 21 — Farm machinery auction at Clay Center. Auctioneers: Mugler Auction Service.
 January 1, 2015 — Harley Gerdes 30th annual New Years Day Consignment Auction at Lyndon.

REAL ESTATE AUCTION
MONDAY, FEBRUARY 17 — 7:00 PM
 St. Peter & Paul Catholic Church - Parish Hall, 730 Court St.
CLAY CENTER, KANSAS
185.61 ACRES OF CLAY COUNTY CHAPMAN CREEK BOTTOM LAND & HABITAT.
 129.36 acres classified as cropland including 93.73 acres which are tillable acres and 35.63 acres of CRP. 56.25 acres of grassland, creek and excellent wildlife habitat. Entire farm is open for spring crops. One of the better producing farms along Chapman Creek. Located just west of Industry, KS on the north side of the road. From the south edge of Clay Center, KS follow Highway 15 south for 16 miles to 4th Rd. then go west for 2.75 miles, through Industry, to the southeast corner of the tract.
 Announcements made sale day take precedence over printed matter. Sellers and agents are not responsible for accidents. The auction firm is working for the sellers. **NOTE: For details or a tour of the farm call Larry at (785) 388-2137.**
LARRY & LAURA GIBBS, SELLERS
 For more information see last week's Grass & Grain or go to kretzauctions.com or kansasauctions.net
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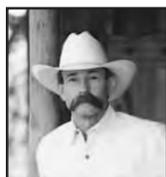
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The Human Attachment

It had been a long day for Steffan. Frozen pipes, touchy tractors, cranky cows and a stuffy nose. A headache had kept him banging his head against the wall from 6 a.m. to sun-down.

His wife and kids went to town that evening, leaving him alone. He was hungry but decided to take cold medicine and a nap before heating up the leftovers she'd left him.

He fell asleep in the chair and slept through supper. It was 10:30 when the family returned. Steffan woke and went out to check the calvy heifers before retiring. He pulled on his overshoes, coat and cap and groggily stumbled out to the calving lot.

"Ump," he groaned, "a cow in need." She lay on her belly straining, one shiny hoof peeked in and out. He struggled out of his coat and retrieved a nylon calving strap from the shed. Attaching it to the protruding foot, he pulled. No luck. "Dang it," spoke his hazy brain, "I need still another strap!"

He procured it and hooked up the second foot, placing the two unattached ends of the straps around his wrists. He sat down be-

hind the mama cow, propping his boots up against her rear end to gain some leverage. When he leaned back, it startled her. She rose in a fit of bewilderment to rid herself of the human attachment. The faster she ran, the heavier the attachment grew. Centrifugal force disallowed neither of the two straps on his wrists to loosen.

Stuck like a rock in David's slingshot, Steffan's lower extremities pounded and pummed posts and rock-hard clods. His knees, hips, limbs, buttocks, calves and heels managed to find every frozen track and petrified cow pie in the pen, depending on his centrifugal position.

He circled the pen at least three times and, because he'd left the gate open, he circled the adjoining pen an equal number. He determined in his foggy condition that the gate post, feed bunk, waterer and tundra all had the same density at 10° Fahrenheit. On his last collision with the inner post, he gathered enough slack to fly free and lit with a thud.

The confused cow, thinking she had calved, turned and came back to the

stunned Steffan. He lay there covered with snow, mud, manure and whatever comes from the back of a cow during parturition. Led by her maternal instincts she sniffed and began to lick him clean.

He recovered and stumbled back to the house for help. He recounted the story to his wife, who collapsed on the kitchen floor in paroxysms of uncontrollable laughter. "Is that all?" she asked, pounding the floor and gasping.

"Yes," he said, but somewhere in the back of his subconscious he remembered getting to his knees and trying to nurse.

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