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Coming Home To Farm



Clay County farmer and mechanic Adam Gierhan is happy to be the next generation to take an active role in their family farming operation.

Mechanic becomes next generation to join family farm

By Lucas Shivers

Adam Gierhan's roots run deep in the land, and he has plans to continue the family crop and livestock operation in Clay County with his brother and cousins as a joint operation.

"I have been blessed by having my family really close to me," Gierhan said. "My extended family lives within five miles, and we are all close-knit. We do anything and everything together."

Gierhan relies on the connection of his immediate and extended family as he assumes a larger role in production agriculture with a company called AG Farms & Cattle.

The close proximity of

the farm ground and family serves Gierhan well as he begins to take on managing his part of the farming operation.

"My grandpa's sister and her husband, the oldest of the three siblings, are slowly getting out of the cattle side of their farming operation, so I've rented their pasture ground for my cattle," he said.

AG Farms & Cattle run approximately 1,200 acres of dry land wheat, soybeans and milo with 14 acres of alfalfa and a few acres of prairie hay.

"All the land we have is ten miles within the original homestead that goes back five generations," Gierhan said. "My mom and dad, Jim and Rhonda, live straight north of me two miles and my grandparents, Dewey and Carol Adams, are three miles away. My cousin, who also farms, is about one mile away."

Gierhan views his Grandpa Dewey as a role model and inspiration.

"My grandpa is the one person that has taught me most of my morals," Gierhan said. "They all came from him. My work ethic has been influenced by him. I strive to work as hard as he does, but I'll never get there. Knowing him, he'll be working on the farm right up until the day we have to make him stop."

Living in a rural area between Clay Center and Wakefield, Gierhan remembers feeding bucket calves,

raising show stock for 4-H, which included hogs and sheep, and lots of other outdoor adventures.

"In one of the major episodes, my cousin, brother and I were playing in the cattle chute, and we had a real problem with wasps and hornets," Gierhan said. "I had numerous stings on my face and three on my neck. To get away, I had my head down and ran headfirst into a metal gate. I knocked myself out and gave myself a fairly good gash on my forehead."

"My brother ran to get my mom. By that time I had come to and then I realized that I forgot my hat, so I started to turn back to get it. But by that time my mom and grandma were screaming at me to leave it behind because I was already injured badly enough. This is just one of the many 'fun' times I had growing up."

Growing up with escapades like this, Gierhan focused on learning skills in agriculture and farming while also enjoying the process of working with people and building networks for the future.

"In junior and high school, I played football for a while, but it wasn't where I wanted to go," Gierhan said. "So I did as much as I could with FFA. I served on several officer teams including president position. This all played a major part in building my leadership skills."

Gierhan credits his involvement in FFA with

Continued on page 15

Senator Roberts named to farm bill conference committee

U.S. Sen. Pat Roberts, a senior member of the Senate Committee on Agriculture, Nutrition and Forestry, was selected to serve on the conference committee tasked with ironing out the differences in the Senate and House passed Farm Bills.

"I look forward to representing the views of Kansas farmers and ranchers as we continue to work toward a farm bill," Roberts said. "I want certainty for producers and will fight to protect crop insurance and programs critical to livestock producers who are still suffering due to drought."

Roberts voted against the Senate Farm Bill in committee and on the floor because it creates a new target price program, Adverse Market Payments, that sets certain commodity prices so high it will pay producers more than the cost of production.

Roberts said the bill looks in the rearview mirror for outdated policies that cause the farmer to plant for the government and not the market. The effect of this interference will be extended periods of depressed prices and excess supplies.

"I will work to preserve some of the provisions in the Senate bill including restored disaster aid to livestock producers, enhanced conservation programs, innovative approaches for agriculture research and improved crop insurance," Roberts said.

The House passed Farm Bill does not contain language on nutrition programs.

"Obviously there is much work to be done on the nutrition title. I have called for more reforms to the Supplemental Nutrition Assistance Program

(SNAP)," Roberts said. "We can restore integrity to the program and save the taxpayer more than the \$4 billion included in the Senate bill."

Roberts introduced legislation S. 458, the Improve Nutrition Program Integrity and Deficit Reduction Act to save the taxpayer \$31 billion and restore integrity to SNAP.

Roberts is a former Ranking Member of the Senate Agriculture Committee. Last year the full Senate passed a bipartisan Farm Bill introduced by then-ranking member Roberts and chairwoman Debbie Stabenow (D-Mich) that eliminated target prices. He is the first member of Congress in history to serve as both chairman of the House Agriculture Committee and ranking member of the Senate Agriculture Committee.

Forum one step toward successful implementation of animal disease traceability rule

While some pieces of the USDA's animal disease traceability (ADT) ruling that became effective March 11 are falling into place answering the "what," other "what" questions are arising among state and tribal animal health officials, livestock producers, livestock marketers and handlers, fair and rodeo managers and meat processors from across the country. ADT program's next step—the "now what"—also presents challenges to those involved in the program, as the ADT program places ownership at the hands of each state and tribe.

To that end, more than 160 industry and regulatory leaders gathered Aug. 6-7 in Denver, Colo., to address challenges, share ideas and develop practical solutions to ensure the success of the country's voluntary ADT program. The "Joint Strategy Forum on Animal Disease Traceability: Bringing Industry and Regulatory Leaders Together to Create Sensible Solutions" was developed and hosted by the U.S. Animal Health Association and the National Institute for Animal Agriculture.

More than 25 speakers and moderators from across animal agriculture provided information and insight during the Forum. Reaction breakout sessions provided participants opportunities to cite "this will work," voice concerns and challenges and increase their knowledge of the ADT ruling and their role in helping make ADT as effective and as efficient as possible.

"Animal disease traceability—or knowing where diseased and at-risk animals are, where they've been and when—is extremely important to ensure a rapid response when an animal disease event takes place," states Steve Crawford, president-elect of USAHA. "An efficient and accurate animal disease traceability system helps reduce the number of animals involved in an investigation, reduces the time needed to respond and decreases the cost to producers and the government."

Victor Velez, California Department of Food and Agriculture, Animal Health and Food Safety Services and co-chair of the Forum, adds that those in food animal agriculture have questions about ADT final rule compliance.

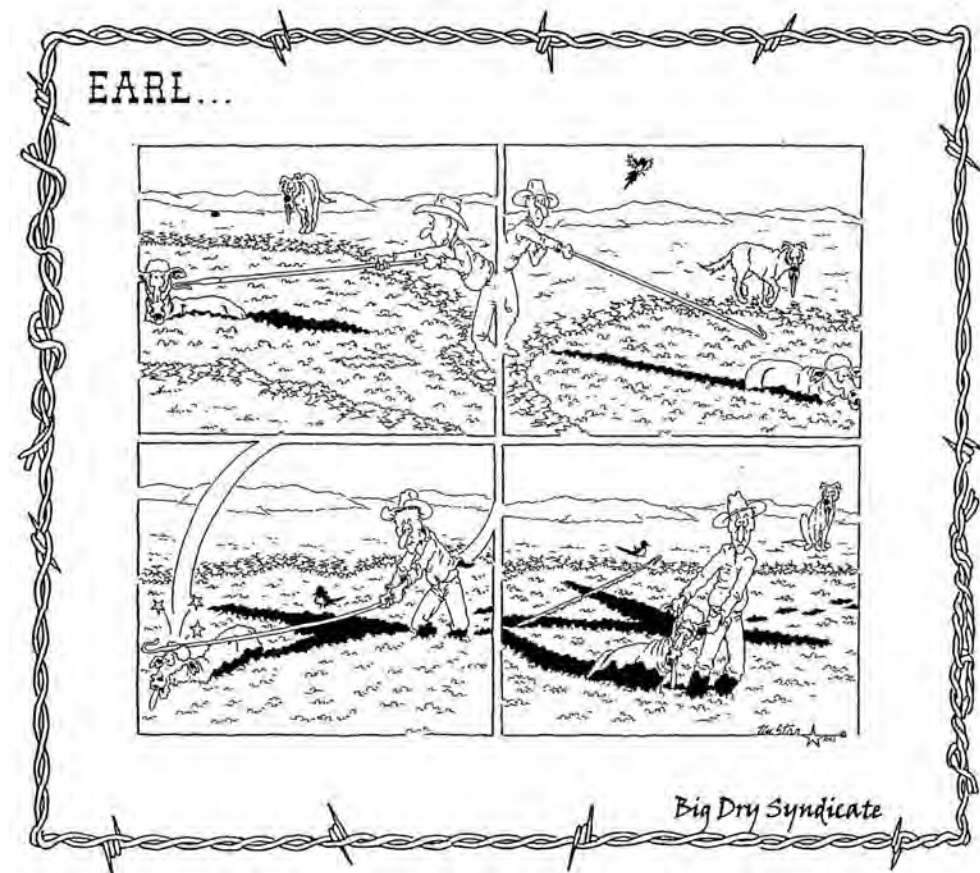
"We know we face bumps in the road to ensure the success of ADT, and this platform provided the opportunity to interact and learn from federal and state government and industry leaders," Velez states.

"One goal of the Forum was to discover common ground and discuss ways collaboration can lead to 100 percent industry compliance of the ADT final rule. The dialogue was extremely robust, and definite inroads were made toward understanding the rule and moving forward with implementation."

Crawford stresses that the Forum was an important jumpstart.

"There is more talk that needs to happen going forward, and the white paper that comes from this meeting will be a useful foundation piece in the implementation of ADT nationwide," he explains. "These efforts will evolve and improve over time, with our long-term goals remaining the same—sound animal disease control and business opportunity."

A White Paper summarizing the Joint Strategy Forum on Animal Disease Traceability: Bringing Industry and Regulatory Leaders Together to Create Sensible Solutions will be published and available online at www.animalagriculture.org by Sept. 1.



Just when I thought I had seen it all. Last week I read an article about scientists "growing" a hamburger in a test tube. I don't know about you, but this just sounds so wrong on so many levels. The article went on to say that while the taste was close to the real thing, they had experienced problems with the color.

Later I saw a TV news segment. One of the taste testers said the flavor wasn't quite right and the burger was very dry. They also featured a quote from an animal rights activist masquerading as an environmental expert about how great this was because it would move the world away from animal production and the environmental concerns he imagined animal agriculture to have.

Wow... my guess is this is one of those experts who have a problem with GMO crops and now he is touting the benefits of man-made, test tube meat? I don't know about you but I have far fewer concerns and much less of a problem with eating a GMO crop than I do consuming a synthetic, lab-generated hamburger. It also gives us a look at the double standard these activists adhere too.

Don't get me wrong. If this test tube meat is approved by the USDA after running the gauntlet of tests GMO crops are subjected too and approved, I will not stand in the way of anyone who wants to consume it. However, I am quite confident that real, cow-made, corn-fed beef will outperform it in any and all taste tests.

Oh, did I mention that the burger cost about \$325,000 to produce? Production costs may be rising all the time out here on the ranch, but I am quite sure that we can still produce a good old bovine-sourced burger for about \$324,999 less and that is a very conservative estimate. As for the environmental factor, I just can't see the faux burger being a real "green" endeavor to produce. Given that our feedlots take extreme measures to protect the environment around them and that they are under a great deal of regulation regarding the aforementioned environ-

ment, I think the nod goes to the cow versus the test tube.

The hype around test tube burgers is just another example of how far removed most people are from the farm and ranch. They do not have a clue about where their food comes from, nor do they fully understand the hypocrisy of opposing GMO crops and embracing test tube meat. We have been genetically altering plants and animals since Adam and Eve were given the deed to the Garden of Eden. Sure, over the years our methods have become more sophisticated and the advances have come more quickly, but every plant or animal we grow for food has been genetically modified.

Yes, all of our crops and livestock are genetically modified. Most of it is through the time-tested method of selective breeding; it wasn't until recently that we developed technology that took us beyond selective breeding. That takes us right up to now when scientists can grow a hamburger using the stem cells of a cow. I say great, because the world is issuing agriculture a challenge: we must feed an ever-growing world population with less land, less labor and with fewer inputs. That calls for all hands on deck.

As I said, I will not stand in the way of test tube beef production, I just don't plan on eating a McFake burger anytime soon. I prefer my beef to taste like the real thing. However, if they do figure out how to produce this meat at a reasonable cost, it is proven safe and has the same nutritional value as my beef I will endorse it wholeheartedly. If we can do anything to save even one person from starving we should pursue it.

I also promise that I will try and compete with synthetic burgers in any way I can. Those of us in agriculture relish the opportunity to meet any challenge we can. I will continue to work each day to produce an even safer, healthier, more affordable hamburger while protecting the world around me and caring for the animals I am entrusted with. All the while, I will enjoy hamburgers produced the old-fashioned way.



Food Safety

The issue of safe, healthy food is in the news once again. While the majority of this nation's food is healthy and safe to eat, food remains deeply entrenched in family values.

Without question, emotions are also tied with what we're eating for lunch or dinner. Emotional connections to our food sometimes make potential risks within our food supply appear frightening.

Consumers react strongly to food safety issues. Because they can't control the outcomes, their exposure is involuntary, the effects are irreversible and they're caused by human actions or failures.

Approximately 5 million illnesses and 4,000 deaths can be attributed each year to meat and poultry products, according to the Centers for Disease Control. About 9,000 people die and at least 6 million become sick each year from food-borne infections.

Like the food industry and our government, consumers have an obligation to keep food safe. The way we handle, store and cook food can mean the difference between a satisfying meal or a bout with E. coli or salmonella.

Purchasing, storing and preparing food, presents many challenges to consumers. As wise and safety-conscious shoppers, it is our responsibility to keep food safe once it leaves our local grocery store or meat market.

Always buy food from a reputable dealer, with a known record for safe handling. If you don't know if the meat is fresh ask a neighbor or friend who's shopped there before.

The U.S. Department of Agriculture (USDA) advises consumers to buy dated

products only if the "sell by" or "use by" date has not expired. While these dates are helpful, they are reliable only if the food has been kept at the proper

temperature during storage and handling. Although many products bear "sell by" and "use by" dates, product dating is not a federal requirement.

When we purchase products labeled "keep refrigerated," we should do so only if they are stored in a refrigerated case and cold to the touch. Buy frozen products only if they are frozen solid. Never buy something that feels mushy. Buy packaged pre-

Prairie Ponderings

By Donna Sullivan

Two weeks ago, after more than a year and a half of planning and fundraising, the Country-side United Methodist Church youth group of Clay County boarded a plane in Kansas City bound for Washington D.C. on a Christian heritage tour. We flew out Wednesday afternoon and arrived back in Kansas City Sunday night at 9 p.m. — a weary band of travelers that had crammed about as much learning, walking, sight-seeing, walking, eating, walking, reading and walking into four days as humanly possible. We were out the door each morning by 7:30 and returned around 10 each night. We navigated our way around the city on foot and via the Metro system that included trains and buses.

Twice I violated my rule of only running when my house is on fire or a hungry bear is chasing me. The first time was when we were jaywalking and I was about to be run over by an SUV, and the sec-

ond time was when the rest of the group had made it on a train car, the doors were about to close, I had no idea how to get where we were going and my cell phone was dead. It was either run and make that train or risk never being heard from again. I made the train.

The first stop on our agenda was the Capitol, where we had a staff-led tour by an intern in Rep. Huelskamp's office. Daniel was our guide's name and he did a wonderful job, taking us to places in the building that the regular tours did not get to see, like the old Supreme Court room. He was able to tell us a great deal of history and even pointed out a set of cat tracks that had been made in the wet sealant on the floor many years ago.

At one point, someone asked him if they had very many tour groups from Kansas. His response was no, we were only the second one he had led all summer. He believed it was because there is so much work to do on Kansas farms in the summer that it's hard for people to get away for a visit to the East Coast.

To illustrate the point, my son, who was along as a sponsor for the boys in the group, had just gotten off the phone after being told that heavy rains in Dickinson County had taken a toll on one of his fences. A quick phone call was made to his dad back home to please check on his cattle and repair the fence before they became Dickinson County nomads and unwelcome guests in neighboring pastures.

Truly, the quickest way to cause a disaster on your farm or ranch is to take a vacation.

For country kids from

Continued on page 3



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cooked foods only if the package is sound – not damaged or torn.

Avoid cross-contamination. To prevent raw meat and poultry from contaminating foods that will be eaten without further cooking, enclose individual packages of raw meat or poultry in plastic bags. Position packages of raw meat or poultry in your shopping cart so their juices cannot drip on other food.

Always shop for perishables last. Keep refrigerat-

ed and frozen items together so they will remain cold. Place perishables in the coolest part of your car during the trip home. Pack them in an ice chest if the time from store to home refrigerator will be more than one hour.

Restaurant salad bars are one of the most common causes of bad stomachs. Improperly washed raw vegetables are another classic source of food poisoning.

Unless they've been

washed scrupulously and handled expertly, vegetables are every bit as likely as meats to have come into contact with pathogens or toxins. If you fail to be as careful with your veggies as you should be with meat it can be unpleasant.

Whatever you do, wash your own hands before handling food and before switching to another food group. And don't forget to wash your hands each and every time you handle and eat food.

While most of these tips sound simple, a common-sense approach the next time you shop, snack or prepare a meal for your family will ensure meal-times are healthy and nourishing.

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.

Prairie Ponderings

Continued from page 2

Clay and Riley counties in Kansas, there was a great deal of culture shock, as homeless people slept in the parks and asked for money, while well-dressed business people talked on their cell phones and avoided eye contact or conversation with those around them. Smiling and attempting to chat with others on the Metro quickly identified us as tourists – that is if the jeans, boots and ball caps hadn't done so already.

As I write this, it's hard to distill all of what we saw and learned in four days into just a few paragraphs. So there will probably be future columns written about the trip. I have said

before, and this trip only strengthened my belief, that every United States citizen should visit our nation's capital. It truly changes the way you look at things and gives you a greater appreciation for the brilliant minds that founded our nation, not to mention the many lives that were sacrificed to preserve it.

Sure, the fences might get washed out, the cattle might stray or other miscellaneous and sundry mishaps may occur back home. But in the end, it's worth it to rekindle your pride in this land we call home and restore your faith that the principles our country was founded can continue to stand the test of time.

The Second Green Revolution: feeding nine billion people in 2050

By John Floros, Dean of the College of Agriculture at Kansas State University, and Director of K-State Research and Extension

Shortly after World War II, the U.S. agricultural industry began developing and adopting a series of research, development and technology transfer initiatives that greatly increased agricultural production.

The 'Green Revolution,' as it was called, was the world's response to a burgeoning population, at that time about 2.4 billion people. It was particularly beneficial to people in such developing countries as India, which in the early 1960s was on the brink of mass famine.

U.S. scientist Norman Borlaug, known as the 'Father of the Green Revolution,' won the Nobel Peace Prize for his work during this time, and is credited with saving a billion people

from starvation.

Fast forward to today. The world's population has tripled since the 1950s, and the United Nations estimates that 870 million people around the world are undernourished. Put another way, one in eight people in our world don't have enough food to eat.

By 2050, the world's population will spike again; current estimates say that planet Earth will top nine billion people, which means that in 35 years, our world's farmers will need to feed an additional two billion people.

And so, I ask, can agriculture keep up with the world's growth?

We can, but consider this: In order to feed all the people on Earth the next 50 years, we will have to produce an equal amount of food to what we have produced up to this point in history.

In order to produce the

equivalent of the Green Revolution in the 21st century, we need to be equally passionate toward conducting research. Our society must invest in basic and applied research and maintain the commitment to education and outreach.

Agriculture — whether it is traditional or modern, sustainable or organic, small- or large-scale — needs more science and technology, not less.

In turn, the industry must be consumer-driven, and able to adapt to changing needs.

Meeting future needs for food means researchers must learn about new ways to improve nutrition, store food safely, conserve water, control pests, prevent crop disease, and improve the health of farm animals. They must learn and then teach farmers about how to grow more food on the same amount of land.

Norman Borlaug and others before us successfully met similar challenges more than 50 years ago. Now it's our turn. We need a second Green Revolution if we're going to feed 9 billion people in 2050.



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Brownies And Cheesecake: A Perfect Match

(NAPSA) — Can't decide what to make for dessert? Why not try two fabulous favorites in one with a Brownie Bits Cheesecake-what's not to love when a chocolaty brownie serves as a classic cheesecake's crust, stir-in and topping?

Start with a packaged brownie mix to save time when making the brownie crust and stir-ins. Once baked and cooled, the brownie "crust" is covered with a creamy cheesecake batter-but better, because it's filled and topped with decadent brownie bits.

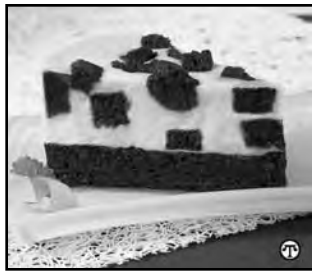
Brownie Bits Cheesecake

Crust:
2 packages (about 16 ounces each) brownie mix (8-inch-square size)

Eggs, water & oil to prepare mixes (as directed on box)

Filling:
(3) 8-ounce packages cream cheese, softened
1 cup granulated sugar
3/4 cup sour cream
6 eggs
1 teaspoon vanilla extract
1/4 teaspoon almond extract

Preheat oven to 350 degrees. Spray 9-inch springform pan and 8-by-



2-inch square pan with vegetable pan spray. In large bowl, prepare one brownie mix following package instructions. Spread into bottom of prepared square pan. Prepare remaining brownie mix following package instructions. Spread into prepared springform pan. Bake both pans together for 35-40 minutes or until toothpick inserted in center comes out clean. Cool completely. Turn oven down to 325 degrees.

Cut approximately half of the brownies from the square pan into 3/4-inch pieces (about 1 1/2 cups); set aside. Reserve remaining brownie for snacking.

For filling, beat cream cheese and sugar with electric mixer at medium speed in large bowl until smooth and creamy, about 5-10 minutes. Beat in sour cream and eggs. Add vanilla

and almond extracts. When filling is smooth, gently stir in 1/2 cup of the cut brownies. Pour over cooled crust. Sprinkle remaining 1 cup cut brownies over cheesecake batter; lightly press into batter. Place cheesecake in middle of oven. Fill a large pan with hot water and place on rack underneath cheesecake.

Bake 1 hour, 25 minutes or until cheesecake is firm on top but mixture is still jiggly when gently shaken. Turn off oven; leave cheesecake in closed oven 30 minutes to cool down slowly. Remove cheesecake from oven and cool on cooling grid 1 hour. Refrigerate covered at least 4 hours or overnight.

Makes about 12 servings.

This delicious dessert duo serves a crowd, making it just right for entertaining or for any family celebration. Since it's made ahead of time and chilled, there's less time spent in the kitchen and more time enjoying the festivities.

For more special occasion and baking ideas, visit www.wilton.com.



Home and Away

Bravery in the face of childhood

By Lou Ann Thomas

If you grew up before 1972, then I congratulate you. You have accomplished a feat that today's children will never know. You made it through childhood without the benefit of the Consumer Product Safety Commission.

This commission was formed in 1972 to regulate the sale and manufacture of more than 15,000 different consumer products. It is the agency charged with protecting us by recalling products that they deem harmful or dangerous.

For example, the CPSC recently recalled a bicycle because it presented a "fall hazard." I can't tell you how many times I fell off my bike growing up. I even remember a couple falls

well past childhood, and no one was there to "protect" from any of them. In the CPSC's defense they have also recently recalled a brand of high heel shoes for being another "fall hazard," and this I completely understand. It is difficult to believe that a God that made feet relatively flat ever intended for them to be forced into pointy toed shoes, then precariously balanced on top of spikes several inches high.

But I digress. My point is there was no CPSC looking out for those of us trying to navigate the trials and pitfalls of childhood before the early 70's. We wore jammies with easily detachable snaps and buttons. We rode our bikes without helmets

and most of the cars we rode in didn't have seat belts.

In fact, I remember riding in the front seat of my grandfather's Chrysler, which had a metal dashboard with pointy metal dials, knobs and decorations sticking out of it. The only protection I had when Grandpa slammed on the brakes was his right arm flung across me pinning me to the seat.

I also remember how the steel jungle gym on my grade school playground, with ends of screws and brackets sticking out, was set into a concrete slab. Yes, concrete! It was a landmine of scraps and bruises, but we wore our band-aids like badges of courage, which looking back, they were.

I'm not saying today's kids are soft, nor am I proposing that we bring back metal tipped lawn darts or lead-based paint. But I do think living through the dangers of childhood prepared us for life's challenges. We learned that you will likely fall off your bicycle -- several times. But we also learned the important thing is not that you fall, but that you get back up.

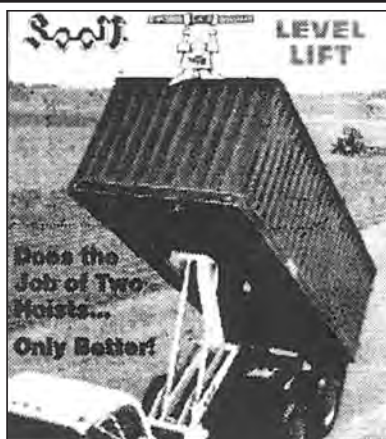
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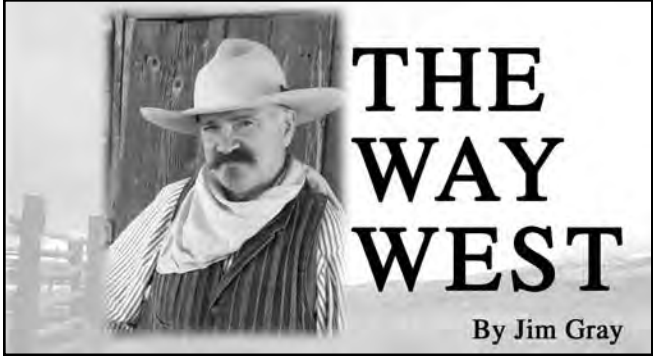
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Politicians and Generals

During the thrust of American settlement across the plains, the United States Army and the citizens that the army represented successfully forced a people from their land to fulfill their own desire. In a few short decades the unbroken prairie fell before the irresistible force of a self-indulgent civilization. Thousands swarmed into a land they little understood against a people they cared NOT to understand.

A small group of men had worked tirelessly to bring peace to the plains from 1865 to 1866. Indian agent E. W. Wynkoop wrote of the feeling the Cheyenne held for the Smoky Hill country where "the bones of their fathers repose." The Cheyenne tried to walk the road of peace. On the western plains cavalry officers passed the time hunting buffalo and meeting with friendly Cheyenne in their villages and at the new post of Fort Wallace. The valley of the Smoky Hill River car-

ried stage and freight wagons to and from Denver, Colorado. The valley was a perfect route for railroad development. The railroad had already built as far as the banks of the Blue River just outside Manhattan, Kansas. The editor of the August 4, 1866, Kansas Radical echoed the sentiments of Manhattan residents who were anxiously waiting for completion of a bridge over the river. "Hear! Here! We hear the whistle! The cars at last are here. Just over the river the iron horse is snorting." In the meantime the Union Pacific Railway, Eastern Division was making plans to build directly into the heart of the central and western Kansas plains. Only the Indians stood in their way. Alarmed by the approach of the iron rails the Cheyenne asked for a council with military authorities. Survey crews were already entering Indian country as the Indian council was held along the banks of the Smoky Hill River at Fort

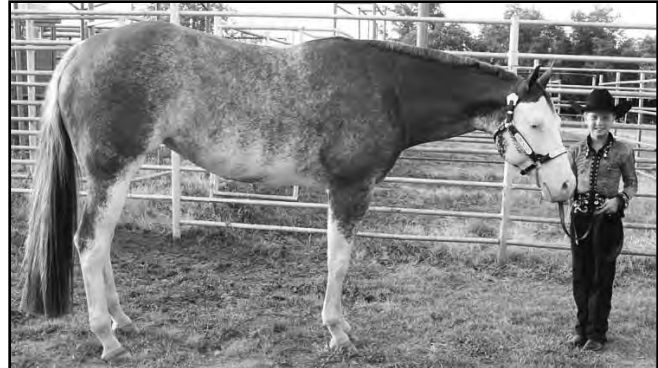
Ellsworth. The leading Cheyenne chiefs and warriors were in attendance August 13, 1866. Representatives of the railroad in their silk hats and long coats were supported by a regiment of cavalry and scores of buckskin-clad frontiersmen. All of the chiefs spoke in their turn. Black Kettle argued that the iron horse would drive the buffalo away and leave his children without food. Roman Nose, a respected warrior, only spoke after the last chief had spoken. General James Fry was greatly impressed with Roman Nose. "Clad in buckskin leggings and embroidered with beads and feathers with a single eagle feather in his scalp lock, and with that rarest of robes, a white buffalo, beautifully tanned and soft as cashmere, thrown over his shoulders, he stood forth..." U.S. officials remained optimistic for a positive outcome to the council before Roman Nose spoke. In three short minutes the warrior undid all the progress the railroad and military officials had gained. Closing his remarks Roman Nose vowed, "This is the first time that I have ever shaken the white man's hand in friendship. If the railway is continued, I shall be his enemy forever!" The failure of the council was of little concern to politicians and railroad officials. Their favorite tool, the United States Army was ready to do their bidding and sweep

away all obstacles. General Winfield Scott Hancock was selected to prepare the Indian campaign. As though all prior treaties and the council at Fort Ellsworth had never happened, the railroad continued building. General Hancock immediately sent a scouting party of one hundred cavalymen from Fort Ellsworth to the Solomon River to operate with a unit of Kansas militia already scouting in that region. He then turned his attention to building an infrastructure for war. The military posts west of Fort Riley were barely more than camps. To perform a full scale action against the plains tribes new facilities were planned. Fort Ellsworth was renamed Fort Harker and expanded and upgraded to serve as a modern supply base. Fort Fletcher was renamed Fort Hays. With the approach of the railroad Fort Hays was moved to take advantage of rail transportation. Fort Wallace near the western

Kansas border was already under new construction which anchored control of the Smoky Hill River well into Colorado Territory. Routes were surveyed to posts in Nebraska. Connecting routes along the Smoky Hill Trail and the Santa Fe Trail completed a military system which included Fort Zarah and Fort Dodge. Peaceful coexistence was never an acceptable option.

In the coming decade an

entire civilization would disappear at the hands of politicians and generals who built for profit and power on The Way West. "The Cowboy," Jim Gray is author of Desperate Seed: Ellsworth Kansas on the Violent Frontier and also publishes a historical paper, the Kansas Cowboy, Old West history from a Kansas perspective. Contact Kansas Cowboy, Box 62, Ellsworth, KS 67439. Phone 785-531-2058 or www.droversmercantile.com



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Comprehensive Immigration Reform: Pro-Growth and Pro-Agriculture

Adrian J. Polansky,
State Executive Director
– Kansas Farm Service
Agency

Earlier this year, the U.S. Senate passed a commonsense immigration reform measure in a strongly bipartisan fashion. This was an important step in the right direction – especially for producers, farm workers and rural communities.

The historic legislation passed by the Senate provides a pathway to earned citizenship for the 11 million people who are in our country today without

authorization. They will have to go to the back of the line, pay fines and settle taxes they owe our nation.

It would modernize the system that we use to bring skilled workers into the United States. And it would put in place the toughest border security plan that America has ever seen – building on steps that have reduced illegal border crossings to their lowest level in decades.

The non-partisan Congressional Budget Office found that the Senate bill

would reduce the deficit over the next 20 years by nearly \$850 billion, and the Social Security Administration estimates that this immigration bill would add nearly \$300 billion to the Social Security system in the next decade.

This bill is also important for rural America. Recently, the White House economic team released a new report highlighting the positive economic benefits that commonsense immigration reform would provide for agri-

culture and rural communities.

The report highlights research showing that without a stable workforce, America's record agricultural productivity will decline in coming years. In Kansas, for example, eliminating the immigrant labor force would cost between \$7.6 million–\$13.7 million in short-term production losses.

The Senate bill addresses this concern by taking much-needed steps to ensure a stable agricultural workforce, and a fair system for U.S. producers and farm workers. In particular, it would give qualifying farm workers an expedited path to earned citizenship, as long as they continue to work in agriculture. A new temporary worker program would re-

place the current H-2A visa program over time, and allow farm workers a three-year visa to work year-round in any agricultural job.

The commonsense system wouldn't just prevent a decline in production – it would grow the economy. Research highlighted in the White House report projects that an expanded temporary worker program would increase both production and exports across our agriculture sector.

Under the Senate proposal, USDA would play a greater role in implementing farm labor programs and ensuring that farmers and ranchers have all the information they need. As Congress continues to work on this issue, Secretary Vilsack and all

of us at USDA are committed to working with lawmakers to be sure they have any technical assistance they might need to finalize these proposals.

Immigration reform is very important for farmers, farm workers and communities across rural America. The majority of our agriculture workforce is made up of immigrants, and their hard work has helped America's farmers and ranchers lead the world. To remain competitive and keep driving economic growth in rural America, we need rules that work. Rural America needs Congress to act as soon as possible to carry forward the work of the U.S. Senate and fix today's broken immigration system.

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ANTIQUE FURNITURE: Victorian chest of drawers, walnut with burl inserts, carved pulls, glove boxes, tilt mirror with carved crest and candle shelves; Eastlake walnut parlor table on porcelain casters; stick & ball glider rocker; full size Jenny Lind bed with like new mattress/boxsprings; washstand; old wood chairs; old wall mirror.

ANTIQUES & COLLECTIBLES: Service for 8, 1847 Roger Bros. silverplate in box; fancy wood

cased kitchen clock; set of blue Frankoma snack trays & mugs; Fenton glass, milkglass pedestal cake plate; Fostoria American bowl; Roseville vase (lip chip); Johnson Bros. ironstone pitcher; 3 woodcuts; large set of LuRay dishes; several silverplate serving pieces; sterling gravy ladle; several pieces of carnival glass; old hand painted china plates & bowls; Wyandotte toy prop plane; Strutto grain truck; JR Hamil print.

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Westfield 8"x31" Electric— New; Hutchinson 16"x4"; Fertil 12"x70"; Hutchinson 8"x61"; Westfield 31"x10"; Hutchinson 13x92" w/Swing Hopper; Westco 8" 42"; Batco 13"x105" HI; JD 428 Elevator; Several Augers Various Sizes; Westfield MK80-61 w/Hydra Swing Hopper.

COMBINES

Gleaner F2 Combine; IH 1460; 2009 NH CR9060 w/ 725 Hrs; NH TR97; Case IH 2166; 3-Case IH 1660 '89, '90, '91; Int 815; Case IHC 1666 Bad Roto Cage; 1998, '99, '01, '04 - Case 2388; 1989 Gleaner R70; IH 1688 Combine; Gleaner M2; NH TR98; 4-JD 9500; 3- John Deere 6620; 2000 JD 9650sts; 2-JD 9600; '09 JD 9770; 2009 JD 9670; '02 JD 9550 Walker; '06 JD 9660; 2-'98-MF 8780 W/ 1400hrs; 7720 Titan 4x4; Case IHC 1640; Gleaner L3; MF 550 Hydro Combine; 2 - IH 715 Combine, JD 7700 Hydro.

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JD 930; JD 930F; JD 343; JD 1293; IH 1063; CIH 2212; IH 1020 20' Flex w/Land Tracker; IH 710 Platform; CIH 744; CIH 810; MF 15' Flex Head; MF 9118 18' Flex Head; JD 653; Agco 20' Flex.

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LOADERS & CONSTRUCTION

JD 8' Bucket; JD 544C Payloader; Koyker 565 Front Loader; 10' Box Scraper; Case W14 Wheel Loader w/Grapple; Dual 310 Loader w/Grapple; Dual 355 Loader w/Grapple; Miskin 3 Yrds Scraper; FH F-11 Loader Fits IH 560; 2006 JD 317 Skid Loader; JD 12' Dozer Blade; AC HD6 Crawler; JD 9' Dozer Blade; New - Jenkins 74" Skeleton Grapple; Farmhand 258 Loader; 12' Box Scraper; Dual 325 Loader 7' Bucket And Grapple; Duncan Front Loader; 1998 JD 444H Payloader 9400 Hrs; 2008 Cat 930H Payloader 7000 Hrs Q.T.H.L.; Lowe Hyd Auger 1650; 3-Lowe Hyd Auger 750; Stout Brush Grapple 66; Stout Brush Grapple HDU72; Stout Brush Bucket HD72; Stout Rock Bucket/Brush Grapple Combo HD72; Stout Rock Bucket Grapple XHD82; Stout Material Bucket 84; 2- Stout Receiver Hitch Plate; 4- Stout Regular Weld On Skid Steer Plate; 2- Walk Through Pallet Forks 48" w/ Skid Steer Quick Attach; Full-Back Pallet Forks 48 w/ Skid Steer Quick Attach; Pallet Forks 48" w/ Skid Steer Quick Attach; Bale Spear Round w/ Skid Steer Quick Attach; Dual 325 Loader w/ Grapple; 10' Sheep Foot Packer.

MISCELLANEOUS

2011 Harley Davidson Dyna Super Glide Custom; Set Of Duals 18.4x42; JD 38 Sickle Mower 7' Bar; John Deere 1508 15' Shredder; Roto-Mix 532-16 Spreader; 30.5 L X R32 Tires (1); Irrigation Cart w/ Generator Bracket; 30.5x32 Tires w/ Tubes (2); New Cat 3 Quick Hitch; Utility Truck Box; 13 M JD Cx20 Batwing Mower w/ Warranty; Loftness 16' Stalk Chopper; JD 1517 Shredder; 2-8 Ton Pax Bulk Bin; Bulk Bin 3 Ton; Kelly Ryan Manure Spreader; Bushhog 7' Shredder; 3-Gnuse Silage Wagon Top; Balzer Shredder 20'; Bushhog Rotary Cutter 14'; Challenger Snoots 12 Row; JD Rear Weights; Kelly Ryan 6x13 Manure Spreader; Westendorf 10 Ton Running Gear; Summers 24' Mulcher 5 Pieces; 2-Keyed Fuel Pump; 2- 2000 Gal Tank; Powder River Alley Way; 1500 Gal Fuel Tank; Howse 5' Rotary Mower; Heider Wagon; 500 Gal Propane Tank; 4-Barge Box; Anhydrous Tank 1000 Gal; 1000 Gal Fuel Tank; Sukup Grain Cleaner; 2-Wilrich Grain Cleaner; NH 195 Spreader; 2-Neco Grain Cleaner; IHC Fender; Owatana 430 Grinder Mixer; Portable Wet Kit w/ Yanmar Engine; 4-Set - Duals 420-42; Pivot Tires; 4-Set Of

30.5x32 Duals For JD Combine Like New; Standard Oil Fuel Wagon; JD Log Skidder; Welding Table - New; 15- Gravity Box; 2-3 Pt Gopher Getter; JD 38 3 Pt Mower 9' Bar; 3 Pt Blade 8'; NH 795 Manure Spreader; 3 Pt Post Pounder; JD 3RW Chopper Head; JD 716A.

PLANTERS & DRILLS

JD 7100 16 R 15" Space; Drill w/ Monitor; IH 800 12R 30 Planter w/Monitor; Int 900-6R30 Cyclo Drill; Ads Seed Tender; 2013 Kinze 3660-16/31 Planter; 2010 Case IH 1250-16R30 Planter; JD 7300-8R36 Rigid Vac Planter; 2012 CIH1250 16R30 Planter; JD 6RW 7100 Planter; JD 7300-10R36 Stack Planter, w/Monitor; IH 510 Drill 10'.

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2-Buffalo 4rw Cultivator; Yetter 15' Rotary Hoe; Buffalo 8 R 30 Cultivator; JD 400 Rotary Hoe; JD 220 Disk w/ 20' Harrow; IH 496 25' Disk; Blu-Jet Sub Til III Chisel; IH 490 20' Disk; JD 726 Mulch Finisher 33'; IH 3 Btm Plow; 2002 JD 512-17.5' Disk Ripper; Krause 2408-28' Disk; CIH 596 Disk, 28'; JD 875-6R30 Cultiv.; AC 2300-21' Disk; IH 490-20' Disk; CIH 3950-32' Disk; DMI 4250-14 Knife Anhy Rig w/Culters And Monitor; 7-DMI 4250-12 Knife Anhy Rig w/Culters And Monitor; Landpride Disc 3pt — 4' & 5'; 2009 Ezee-On 4590-36' Disk; JD 400 Rotary Hoe 15'; 30'; 2003 Melrow 50' Harrow; Sunflower 1433 35' Disk; 2009 John Deere 2510S Strip Till 32'; JD 980-31' Field Cultiv; IHC Pull Type Chisel; JD 510-20' Disk Ripper; JD 8R30 Cultiv; JD 3 Pt 3 Bottom Plow; JD 960-32' FC; JD 230 Disk; CIH 496 Disk 25'; 32' Disk; CIH 3950 32' Disk; IHC 4600 Field Cultiv 28'; CIH 340 32' Disk; IHC 490 24' Disk; JD 630 24' Disk.

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2013 H&H 20' Heavy Duty Car Trailer; 2004 WesternStar Semi Truck, Detroit Series 60, 13 Speed; 1979 IH 2275 Series Single Axle; Big Tex 30' Gooseneck Trailer; 1995 Chaparel 45' Flatbed; 1981 Mack R600; 1989 Fruehauf Flatbed Trailer; 2000 IHC 9100 Semi Truck; 1996 Chevy Kodiak Truck; Aztec 45' Flatbed Trailer; 2013 GR 24' Gooseneck Trailer; 2-2011 Wilson 43' Ag Hopper Air Ride; 14' Pup Trailer; 16' Pup Trailer; 16' Single Axle Dolly; 1994 Peterbilt 379; 2007 Wilson 50' Triple Axle; 16' Car Trailer; 1995 Chaprel 45' Alluminum Spread Axle; 1990 Ford ¾ Ton 2wd; 1995 Peterbilt 379 Ext HD Semi; 1998 Wilson Cattle Pot 52' Tandem; 2002 Merrit Cattle Pot 52' Can. Spread; 1996 Freightliner.

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Unmanned aircraft demonstration to be highlighted at agronomy field day, August 16

One of the most exciting recent developments in agriculture is the use of small Unmanned Aircraft Systems to evaluate crop conditions. Producers, agronomists and the public can view a demonstration of this new technology at the 2013 Agronomy Field Day on Aug. 16 at Kansas State University's Agronomy North Farm.

The use of these unmanned aircraft systems equipped with aerial optical sensing technology has gained national press attention in recent months. Kevin Price, K-State, professor of agronomy and geography, and Deon van der Merwe, associate professor of veterinary medicine and head of the diagnostic laboratory toxicology section, are among the leading researchers in the nation on this technology. They are working to develop systems that can be used by the agricultural community.

"We've had an incredible reception among consultants, producers, plant breeders and others when we've shown them what this technology can do. It has the potential to make their jobs much easier and

will help them make better recommendations in a more timely manner," Price said.

"At the field day, I will be showing some of the kinds of things we can accomplish with these small Unmanned Aircraft Systems in field demonstrations," he added.

This is just one of several new technologies featured at the field day by agronomy researchers. Other demonstrations will show the work of Dave Mengel, professor and soil fertility specialist on optical sensors for nutrient recommendations; Vara Prasad, associate professor and crop physiologist on stress tolerance research; and Peter Tomlinson, assistant professor and environmental quality specialist and Chuck Rice, university distinguished professor of agronomy on techniques used to measure greenhouse gases.

The field day will begin with registration at 9 a.m. and wrap up at 2 p.m. There is no charge to attend, and a complimentary lunch will be available. Preregistration is requested so that a lunch count

can be made. Those interested in attending can preregister by calling Troy Lynn Eckart at 785-532-5776. To preregister online, see: <http://kstateagron2013.eventbrite.com/>.

Sessions include two concurrent one-hour tours in the morning, starting at 9:45 and 11 a.m. After lunch, there will be demonstrations on sUAS flights; analyzing and interpreting images from sUAS technology; and field checking of optical sensing readings

for crop nutrient status.

In addition, there will be displays from commercial companies and K-State researchers in the shed near the registration area, along with the crop garden, forage garden, and weed garden for browsing. Extension specialists will be available to answer questions.

For more information, interested persons can contact Dallas Peterson at 785-532-0405 or dpeterso@ksu.edu.



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Deadline for Franklin County grazing school is August 15

Rotational grazing is recognized as a way to utilize rangeland and forages more efficiently. A collaboration of experts from the Kansas State Research & Extension, Natural Resource Conservation Service and private industry are joining together to offer this two-day event.

The third annual grazing school will be held September 11 and 12 at the Franklin County Fairgrounds, 1737 S. Elm Street, in Ottawa and various pastures in the area.

Special presenters Mark Green, Missouri NRCS, and Wesley Tucker, an ag economist with Missouri's Extension Service, will be participating and sharing

their experiences. On the first evening a fencing demonstration will be held, highlighting advances in electrified fences.

Dale Strickler with Star Seed company will present information on complimentary forages and share his experiences with rotational grazing.

Doug Shoup, area Extension agronomist is on the program to help participants learn the basics of grass growth. Jaymelynn Farney, area Extension animal scientist, joins the group this year to discuss, animal behavior and interaction as they graze.

David Kraft, NRCS state rangeland management specialist will present the Art and Science of Grazing,

and along with Doug Spencer NRCS rangeland conservationist will conduct a hands on pasture allocation exercise.

The grazing school is designed for adult learners, a maximum limit of 35 farms will be observed. Registration is \$50 for the first person from the farm or ranch, additional persons are \$25 each.

Registration includes snacks, meals and proceedings. Registration is due by August 15th, send registration info to Frontier Extension District, 128 West 15th Street, Lyndon KS 66451.

Questions may be directed to Rod Schaub, Frontier District agent, rschaub@ksu.edu or 785-828-4438.

Cooler temps and precipitation improve crop conditions

For the week ending August 4, 2013, most of the state saw cooler than normal temperatures and widespread precipitation according to USDA's National Agricultural Statistics Service. Large portions of central and eastern Kansas received three inches or more of rainfall. It is expected that additional moisture will benefit not only crops, but pasture and rangeland as well. As a result of wet conditions, there were only 2.5 days suitable for fieldwork. Topsoil moisture supplies rated 12 percent very short, 17 short, 52 adequate, and 19 surplus. Subsoil moisture supplies were 20 percent very short, 28 short, 45 adequate, and 7 surplus.

Field Crops Report: Corn silking was 87 percent, behind 97 last year and 96 average. Corn in dough was 41 percent, behind 70 last year and 53 average. Corn denting was 3 percent, well behind 46 last year and 18 average. Corn condition rated 11 percent very poor, 18 poor, 33 fair, 32 good, and 6 excellent.

Sorghum heading was 29 percent, behind 45 last year and 36 average. Condi-

tion rated 6 percent very poor, 13 poor, 38 fair, 40 good, and 3 excellent.

Soybeans were 69 percent blooming, behind 78 last year and 76 average. Setting pods were 24 percent, compared to 33 last year and 34 average. Condition rated 2 percent very poor, 8 poor, 33 fair, 52 good, and 5 excellent.

Cotton squaring was 80 percent, behind 89 last year and 93 average. The portion of the crop setting bolls was 17 percent, behind 62 last year and 48 average. Condition rated 0 percent very poor, 5 poor, 49 fair, 40 good, and 6 excellent.

Sunflower blooming was 31 percent, behind 43 last year and 38 average. Condition rated 3 percent very poor, 10 poor, 41 fair, 41 good, and 5 excellent.

Alfalfa third cutting was 31 percent complete, well behind 79 last year and 63 average.


Livestock, Pasture and Range Report: The condition of range and pasture rated 24 percent very poor, 25 poor, 26 fair, 23 good, and 2 excellent. Stock water supplies rated 12 percent very short, 20 short, 62 adequate, and 6 surplus.

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Solace of A Saddle

This world is too cluttered. I don't mean clutter like the trash you see thoughtless people throw on our roadways. I mean the technical marvels that have been invented since Edison, the Wright boys and Werner began experiments that led to marvelous inventions that have changed our world. I know light bulbs and airplanes and rockets make things easier and faster for humans but they've also made it more complicated.

Every time I get a new electronic gadget, I have to spend hours trying to program it and by the time I figure it out, it's outdated or someone has come up with a newer machine. DVD players, TV remotes, computers and cell phones are all great inventions but they have sure cluttered our lives. How about the new GPS gadgets? They're really great and now getting lost is ancient history. That's too bad. Sometimes getting lost has its rewards. You get to see places you wouldn't have seen before if you hadn't been lost. And those TV remotes, can't they make them all the same so you don't have to take a college course just to operate a new one?

The good news is that some things never change. I don't need a 500-page manual to operate my horses. I can get to work right away without reading up on how to change their fuse, reset circuit breakers or enter a password I can't remember. They've got a few buttons you might have to press, but generally they let you know when you're not on their wavelength. Horses have their own brains and none of them operate ex-

actly alike so a manual would be as worthless as a flashlight without batteries. Sometimes they have parts but any good farrier can change all four of them in less than an hour.

I've been trying to learn a new computer program that is pretty complicated with hundreds of features that were giving me a fit. My mind was so cluttered with instructions that I felt like I was going to have Chernobyl meltdown. I needed to get away from the thing before I fried what was left of my brain.

Checking cows and fences is always a respite from a complicated world. It's the real world, where there are no computers or TV's and no one around but you, your horse and the ranch animals. It's a good place to go and I knew it would soothe my jangled nerves. I headed for the barn.

The first paycheck comes while I'm brushing my horse and take pleasure knowing he's enjoying it as much as I enjoy stroking him with the soft bristles. Walking in the tack rooms pays off too. When I lift the saddle pad from the rack, I catch the pleasant scent of saddle leather and feel a little more tension slip away as I anticipate leaving the computer instructions behind and being horseback instead of desk bound. The good part comes when I ease the saddle on his back and see his ears perk up as if he's wondering where we're heading. It doesn't matter as long as we're heading somewhere.

Jogging down the hill bleeds off more tension and by the time we spot the cows, the saddle has done its job. No more clutter up top and the satisfac-

tion of seeing shiny black cows finishes the job. I don't give a hoot that I can't understand the difference between bitmap and jpeg anymore. It doesn't matter out here. What matters is watching all those heads and ears come up when we ride into view. I stop near the herd and sit. My horse understands this is inspection time and I know what he's thinking. It happens every time. He's wondering, since we're sitting still, if he could get away with snipping a few blades of grass. Against all the rules, I loosen the reins and let him drop his head. The cows go back to grazing as soon as they see his head go down. He answered their question. They're satisfied that we're not here to push them anywhere.

Sitting still in the saddle on a good horse, my senses ingest countless wonders that only require awareness to the world around me. Cows and calves fat from summer grass, the whisper of the evening breeze, melodies sung by feathered friends and the creak of my old saddle when I shift around to see more of this splendid land. My think tank has been cleansed of all the clutter and only takes in the wonderful sounds and smells of the land and animals. It's almost a miracle how a horse and saddle can achieve such an attitude adjustment in such a short time and dispel the confusion and clutter of our modern world.

Horseback, sitting in a worn saddle, gives soothing therapy. As far as I know, there is no other method that pays such high dividends. Pickups and four-wheelers can't compare to being horseback. Their noisy engines block nature's sounds and rewards. This saddle I sit in is a true friend and always provides comfort when I need it the most. It never lets me down.

Contact Ralph Galeano at horsemanship@horsemanship.com or www.horsemanship.com.

Risk & Profit Conference early registration deadline coming up

Aug. 15 is the early registration deadline for Kansas State University's annual Risk & Profit Conference, which will be Aug. 21-22 at the K-State Alumni Center in Manhattan. University of Illinois professor of agricultural economics, Scott Irwin, will give the keynote address, "Grain Markets and the RFS (Renewable Fuel Standards): All Eyes on the EPA."

Northwest Kansas farmer Terry Kastens, who is a K-State emeritus professor of agricultural economics, will present "A Conversation with a Kansas Producer" after the Wednesday evening meal. Conference participants will be able to attend eight of the 20 break-

out sessions, which include:

- Short-dated corn and soybean options;
- Inefficient Commodity and Equity Markets and Why Most Economists Drive Dodge Neons;
- The Farm Bill and Crop Insurance;
- Tackling Big Issues in the U.S. Cattle Industry: An Interactive Clicker Session;
- Strategic Risk Management;
- Are the Most Profitable Farms Consistently the Most Profitable?;
- There is More to an Estate Plan Than a Will or Trust; and
- Rural Grocery Initiative.

The fee for the full conference is \$210 per person if paid by Aug. 15, and \$230 after that date. The rate for a second person from the same farm or business is \$190 for the full conference (by Aug. 15). The fee includes access to all sessions, four meals, a CD of all conference proceedings and parking. Partial conference rates are available for those who can only attend one day.

More information, including online registration, is available at www.agmanager.info/events/risk_profit/2013/default.asp.

Information also is available by contacting Llewelyn at rvl@k-state.edu or 785-532-1504.

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KDA Ag Marketing Program team seeking advisory board members

The Kansas Department of Agriculture's (KDA) Agricultural Advocacy, Marketing and Outreach team (marketing program team) is seeking talented Kansans to serve on the program's newly created advisory board. Any interested Kansan who currently resides in the state is eligible to apply.

The mission of the KDA marketing program team is to serve all Kansans through innovative programming and deliver solutions designed to create an environment that facilitates growth and expansion in agriculture while increasing pride in and awareness of the state's largest industry – agriculture. Since the program's transfer from the Kansas Department of Commerce to KDA, via an executive reorganization order in 2011, the program's team has grown to include nine full-time team members in four subdivisions including, international agricultural market development, agriculture business development, From the Land of Kansas and communications.

Highlights of the pro-

gram's accomplishments include:

Leading eighteen international trade missions (12 outbound and six inbound) in 2012;

Developing a series of licensing guidelines to aid existing and prospective agribusinesses in navigating state regulatory requirements;

Rebranding and launching the state's agricultural and food trademark program, From the Land of Kansas; and

Raising more than 75,000 meals for food insecure Kansans through the first-ever statewide food drive in celebration of Kansas Agriculture Day on March 19, 2013.

The advisory board will advise the team on a diverse array of initiatives, including the From the Land of Kansas state food and agricultural trademark program, international agricultural development, agriculture business development and agricultural education.

"I am proud of the foundational work the marketing program team has accomplished since coming

back to the Kansas Department of Agriculture in 2011," said Secretary of Agriculture Dale Rodman. "As we move forward, we need innovative agricultural leaders to work alongside us and offer feedback and directions in how KDA can better cater to the agribusiness and marketing needs of Kansas."

The marketing program team is seeking nine to 12 members for the advisory board with experience in at least one of the following sectors: livestock industry, commodity production, specialty crop production, local foods or farmers' markets, restaurant and food service industry, value-added agriculture, agricultural education, rural economic development, food processing, finance and banking, agricultural cooperatives and marketing/economics. Members will be appointed by Rodman to either a two-year or four-year term.

All interested persons can apply to serve on the advisory board by submitting a resume, cover letter/statement of interest and tax clearance confirma-

tion PDF via email to the marketing program team manager J.J. Jones. The online tax clearance form is submitted electronically through the Kansas Department of Revenue. Individuals who submit the form will receive email notification with a link to a downloadable PDF, certifying good standing. Please download and email the PDF, in addition to the resume and cover letter, to Jones. Applications will be accepted until September 1, 2013. All questions should be directed to Jones either via email or phone at (785) 296-3737.

For more information about the marketing team, please visit the KDA website.



Carly Rothfuss was tapped as reserve champion and Cheyenne Ferguson as grand champion in the horse showmanship category at the Geary County Free Fair.

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ANTIQUE LEVEL AUCTION

SATURDAY, AUGUST 24 — 10:00 AM
Auction will be held at the Helvering Center 111 S. 8th in
MARYSVILLE, KANSAS

Selling will 600+ levels; 18" Williamsburg; 30" Stratton; 6" SW Stanley #39 1/2; 10" rose wood brass John Currie & Co; 4" wood/brass Stanley 381 1/2; 12" cast iron Stanley #36; 8" iron SW Stanley machinist eclipse; 20" wood/brass Stanley #93; 30" wood/brass Stratton; 9" metallic machinist Stanley #34; 24" wood/brass Goodell & Pratt; 24" Oak Leaf H-O; 18" cast iron Miller Falls; 18" cast iron Davis patent M.W.

Robinson Co #8; #31 pocket hexagon; 30" wood/brass Keen Kutter KK50; 18" cast iron The L.S.S.; 24" cast iron Stanley #237; 27" Universal Boring Machine machinist; 26" wood/brass Stratton Bros #11; 18" cast iron Goodell-Pratt; 12" cast iron machinist L.S. Starrett; Winchester; Keen Kutter; Stanley's; Elliot-Lucas; Woods; Miller Falls; Disston; Lambert Milliken & Stackpole;

LSS Co.; John Rabone & Sons; Disston & Morss; Jordan Germany; Baker McMillen; Disston & Morss; Richards & Conover; machine gun level; Swift & Anderson; Sargent; Stabila; Eclipse; Glenn Allen & Co; Goodell Pratt; E.A. Stevens; J. W. Harmonist; Standard Eclipse; The Oak Leaf; L.S. Starrett; Baker McMillen; Bedortha Bros; American; J. Rabone & Sons; some tools and collectables.

Note: Carl has collected for many years. There are many rare and unusual levels. We will be open for viewing on Friday afternoon and evening until 7:00 p.m. Check our web site for pictures and list at www.thummelauction.com.

CARL LYTLE
Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC
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80 ACRES

REAL ESTATE AUCTION

BERM HOME

WESTERN JACKSON COUNTY

SATURDAY, AUGUST 24 — 10:00 AM
611 178th Road — EMMETT, KANSAS

80 Acres with house & detached garage/shop E 1/2 SE 1/4 12-8-12, Jackson County. Brome grass pasture, partially terraced with nice size pond, berm style 2 BR home with 936 sq ft built in 1992, needs some work but has potential. Detached garage/shop includes finished area with pool table, furnace, AC & 1/2 bath. Auction at property SW corner 178th & B Rd.

For more details, map & photos visit our website at www.pearlrealestate.org

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Dennis L. Rezac, Auctioneer, 785-456-4187
Mike Pearl, Broker, 785-256-5174

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<p>CONTINUOUS PANELS</p> <table style="width: 100%;"> <tr><td>4 bar 1 1/4" 14 ga 20'</td><td>\$62.00</td></tr> <tr><td>5 bar 1 1/4" 14 ga 20'</td><td>\$76.00</td></tr> <tr><td>6 bar 1 1/4" 14 ga 20'</td><td>\$85.00</td></tr> <tr><td>7 bar 1 1/4" 14 ga 20'</td><td>\$99.00</td></tr> <tr><td>4 bar 1 5/16" 11 ga 21'</td><td>\$85.00</td></tr> <tr><td>5 bar 1 5/16" 11 ga 21'</td><td>\$105.00</td></tr> <tr><td>6 bar 1 5/16" 11 ga 21'</td><td>\$119.00</td></tr> <tr><td>7 bar 1 5/16" 11 ga 21'</td><td>\$132.00</td></tr> </table> <p><i>Call about custom panels and pre-cut post</i></p> <p>BALE FEEDERS</p> <table style="width: 100%;"> <tr><td>Horse feeder heavy duty</td><td>\$425.00</td></tr> <tr><td>Single bale heavy duty</td><td>\$550.00</td></tr> <tr><td>Single bale hay saver</td><td>\$750.00</td></tr> <tr><td>Double bale heavy duty</td><td>\$950.00</td></tr> <tr><td>Double bale hay saver</td><td>\$1150.00</td></tr> </table> <p>BALE SPEARS</p> <table style="width: 100%;"> <tr><td>Skidsteer mount 2 spear</td><td>\$575.00</td></tr> <tr><td>Skidsteer mount 4 spear</td><td>\$850.00</td></tr> <tr><td>Loader mount 2 spear</td><td>\$725.00</td></tr> <tr><td>3 point mount 2 spear</td><td>\$575.00</td></tr> <tr><td>Axial Bale unroller 3pt</td><td>\$1600.00</td></tr> <tr><td>Twin arm bale unroller</td><td>\$1200.00</td></tr> </table> <p><i>Call us about any custom spears or unrollers to suit your feeding needs.</i></p> <p>FEED BUNK PANELS</p> <table style="width: 100%;"> <tr><td>21' long X 3' wide</td><td>\$115.00</td></tr> </table> <p>PORTABLE FEED BUNK PANELS</p> <table style="width: 100%;"> <tr><td>10' long X 5' tall</td><td>\$225.00</td></tr> </table>	4 bar 1 1/4" 14 ga 20'	\$62.00	5 bar 1 1/4" 14 ga 20'	\$76.00	6 bar 1 1/4" 14 ga 20'	\$85.00	7 bar 1 1/4" 14 ga 20'	\$99.00	4 bar 1 5/16" 11 ga 21'	\$85.00	5 bar 1 5/16" 11 ga 21'	\$105.00	6 bar 1 5/16" 11 ga 21'	\$119.00	7 bar 1 5/16" 11 ga 21'	\$132.00	Horse feeder heavy duty	\$425.00	Single bale heavy duty	\$550.00	Single bale hay saver	\$750.00	Double bale heavy duty	\$950.00	Double bale hay saver	\$1150.00	Skidsteer mount 2 spear	\$575.00	Skidsteer mount 4 spear	\$850.00	Loader mount 2 spear	\$725.00	3 point mount 2 spear	\$575.00	Axial Bale unroller 3pt	\$1600.00	Twin arm bale unroller	\$1200.00	21' long X 3' wide	\$115.00	10' long X 5' tall	\$225.00	<p>PORTABLE PANELS</p> <table style="width: 100%;"> <tr><td>10' Standard panel</td><td>\$89.00</td></tr> <tr><td>10' Heavy duty panel</td><td>\$99.00</td></tr> <tr><td>10' bow gate</td><td>\$199.00</td></tr> <tr><td>4' walk through gate</td><td>\$119.00</td></tr> <tr><td>3' alleyway frames</td><td>\$60.00</td></tr> </table> <p>PANEL TRAILER SETS</p> <table style="width: 100%;"> <tr><td>40 piece – standard</td><td>\$4695.00</td></tr> <tr><td>40 piece - heavy duty</td><td>\$4995.00</td></tr> </table> <p><i>All panels are painted. Call for custom sizes.</i></p> <p>FEED BUNKS BIG PIPE FEED BUNKS</p> <table style="width: 100%;"> <tr><td>20' Closed end</td><td>\$525.00</td></tr> <tr><td>20' Open end</td><td>\$475.00</td></tr> </table> <p>SILAGE AND GROUND HAY FEEDERS</p> <table style="width: 100%;"> <tr><td>20' L X 4'W x 2'D</td><td>\$825.00</td></tr> </table> <p><i>Call about custom sizes or custom feeders.</i></p> <p>BALE FEEDER TRAILERS</p> <table style="width: 100%;"> <tr><td>20' single axle</td><td>\$4750.00</td></tr> <tr><td>Silage pans</td><td>\$450.00</td></tr> <tr><td>24' single axle</td><td>\$5250.00</td></tr> <tr><td>Silage pans</td><td>\$575.00</td></tr> <tr><td>32' Tandem axle</td><td>\$7150.00</td></tr> <tr><td>Silage pans</td><td>\$950.00</td></tr> </table> <p><i>Call about custom options to your feeder trailer.</i></p>	10' Standard panel	\$89.00	10' Heavy duty panel	\$99.00	10' bow gate	\$199.00	4' walk through gate	\$119.00	3' alleyway frames	\$60.00	40 piece – standard	\$4695.00	40 piece - heavy duty	\$4995.00	20' Closed end	\$525.00	20' Open end	\$475.00	20' L X 4'W x 2'D	\$825.00	20' single axle	\$4750.00	Silage pans	\$450.00	24' single axle	\$5250.00	Silage pans	\$575.00	32' Tandem axle	\$7150.00	Silage pans	\$950.00
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Red meat exports hit 2013 highs in June

Exports of U.S. beef and pork enjoyed their best month of the year in June, rising both in volume and value over 2012 levels, while lamb exports continued their steady increase, according to statistics released by USDA and compiled by the U.S. Meat Export Federation (USMEF).

Pork exports in June increased 2.4 percent in volume to 169,098 metric tons while edging a fraction higher in value to \$469.7 million. Beef exports fared even better, rising 8 percent in volume to 101,720 metric tons and 21 percent in value to \$562.3 million.

Lamb exports also continued to grow, jumping 29 percent in volume to 1,423 metric tons and nearly 4 percent in value to \$2.5 million.

“There is no question that challenges persist, such as the continued closure of the Russian market, but we are seeing positive signs from key markets, including Japan and Mexico, that are vital trading partners for our industry,” said Philip Seng, USMEF president and CEO.

Another positive growth metric in June was the per-head export value recorded for both beef and pork. Beef export value was a record \$260.21 per head of fed

slaughter, a \$56.31 increase over June of 2012. For pork, the per-head export value was \$57.27 in June versus \$54.78 last year.

Top performing beef export markets in June (by volume) were Japan (+66 percent), Hong Kong (+156 percent), Mexico (+14 percent), Taiwan (+400 percent) and Central/South America (+62 percent; growth mainly to Peru and Chile). The absence of exports to Russia continues to be felt, as the 5,903 metric tons of beef exported there last June made it the No. 6 market for U.S. beef.

“We are focused on the markets where we can take advantage of opportunities, such as expanded access for U.S. beef in Japan, the rebound in Taiwan and continued growth of the Hong Kong and Central/South America markets,” said Seng. “At the same time, we continue relationship-building in Russia for when that market reopens, and stand ready to capitalize on the growing demand for high-quality beef in China when access can be restored for the first time since 2003.”

Pork exports to Mexico increased 20 percent in June, pushing the first-half total nearly even with last year’s record pace. Other

top pork export growth markets in June (by volume) were Japan (+4 percent), China/Hong Kong (+15 percent), Central/South America (+54 percent; mainly to Colombia, Honduras and Chile), the ASEAN (+26 percent; mainly to the Philippines), Caribbean (+36 percent; mainly to the Dominican Republic) and Taiwan (+67 percent).

“The rebound in Mexico is particularly gratifying,” said Seng. “An abundance of domestic pork in Mexico affected demand in the first quarter and the Russia closure had a negative impact on the prices paid for hams and other cuts sold to processors in Mexico. But we are focusing on this market with a pork imaging campaign that is getting positive reviews from importers and consumers alike.”

Strong buying from Mexico likely helped propel heavy hams to over 90 cents per pound by early June, a 22 percent increase compared to last year’s prices. But access to Russia will be-

come increasingly critical as we move into seasonally larger pork production.

For the year, U.S. beef exports are down 1 percent in volume at 542,560 metric tons but 6 percent higher in value at \$2.83 billion. Total beef exports (muscle cuts plus variety meat) accounted for 13.6 percent of U.S. beef production in June, up from 12 percent last year. For the year they account for 12.4 percent of production, about the same as last year.

June beef muscle cut exports accounted for 11 percent of production (up from 10 percent in June 2012). For the first half of the year, exports accounted for 9.6 percent of beef muscle cut production, about the same as last year.

Pork exports for the first half of 2013 are down 7 percent in volume and value to 1.05 million metric tons valued at \$2.94 billion. Total pork exports (muscle cuts plus variety meat) accounted for 28 percent of total U.S. pork production in

June versus 26 percent last year. For the year they equate to 26 percent of production versus 28 percent in 2012.

June pork muscle cut exports accounted for 24 percent of production (up from 23 percent in June 2012). For the first half, exports accounted for 21.7 percent of muscle cut production,

down from 24 percent last year.

Lamb exports continue to be led by Mexico and Canada. For the year, total lamb exports are up 17 percent in volume to 7,263 metric tons valued at \$15.7 million, a 25 percent jump.

Complete export results for U.S. beef, pork and lamb are available online.



Grand champion dairy and reserve champion dairy showmanship was awarded to Cierra Hicks at the Geary County Free Fair.

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AUCTION

SATURDAY, AUGUST 17 — 10:00 AM
FRANK N. BILLS LIVING TRUST, SELLER
2651 100TH ST., EUREKA, KS

DIRECTIONS: From Eureka, Ks, 2 miles east on HWY 54 to HWY 99, 4.5 miles south to 100th, 11 miles east to the auction location.

TRACTORS JD 7810 4x4 2756 hrs. * JD 7820 4x4 w/746 loader & grapple 10,145 hrs. * Allis 7060 Tractor for Parts * Belarus 945 Tractor 4x4 Cab Turbo, w/Allied 595 loader & grapple. **TRUCKS:** 1995 Ford F350 pickup 4x4, Duals, Deweze bed, 2000lb MBark Cake Feeder w/hydraulic motor * IHC S1900 Henderson Chief Bulk Feed Truck. **IRRIGATION EQUIPMENT:** 2 JD Irrigation Pumps 4-5 Liter Diesel Like New 3 Traveling Guns – 1-5” 2-4” Irrigation hose. **CATTLE & FARM EQUIPMENT:** 1993 Trailman 7x12 Livestock Trailer * Bumper Rotomix 524-158 Feed Wagon 7T * Rotomix 414-14B Mixer Wagon 4T * NH Haybuster 1100 tub grinder w/bale retriever * 2” & 3” steel pipe – 6 bundles – 20’ * 40 gauge Lincoln Pipeliner Welder * Flying W hydraulic chute * Big Valley portable squeeze chute * Big Valley portable calf cradle * Feed supplement Tank New 2013 Henke 2204 Feed Wagon * Industrial Air Compressor on Trailer * **LOADER:** Cat 950 Loader Rubber Tired #96219 Cat 950 Loader Rubber Tired for Parts Fiat 745 Loader for Parts. **SEMEN** 6 Compartment Semen Tank * App. 100 Straws Gardner Bull Semen. **BE PROMPT NO SMALL ITEMS**
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SUNDGREN REALTY INC.
Joe Sundgren, Broker, 316-377-7112
Jeremy Sundgren, 316-377-0013 Rick Remsberg, 316-321-7112

TOOL AUCTION

SATURDAY, AUGUST 17 — 10:00 AM
Auction will be held in Kenwood Hall at the Saline Co.
Expo 900 Greeley in **SALINA, KANSAS**

TOOLS
Mac 1500 13 drawer tool chest; Mac 1510 12 drawer top tool box; Mac 2 door back add on; Mac side add on; Mac 20,000 lb. air over hyd pump new; 6’ 2 door fire proof cabinet on wheels; Craftsman 1.6 hp 33 gal upright air compressor; Coleman 5000 watt generator; Craftsman miter saw; power washer; Craftsman 3 drawer tool boxes; Sockets of all kinds & sizes; angle head, fitting, stubby, end & combination wrenches; hyd jacks up to 30 ton; air tools; Craftsman air tool kit; Mac radiator pressure tester; tap & die sets; calipers; pliers of all types; screw drivers; squares; levels; nut drivers; impact screw drivers; alan wrenches; flaring tools; hose cutter; punches; chisels; pipe wrenches; chain wrenches; Crescents; Mac pop riveter; 100 lb. propane bottle; pickup tool box; SY 8000 fork lift jack; LARGE assortment of other tools.

See last week’s Grass & Grain for listings or check our web site for pictures at www.thummelauction.com

DON SAWIN
Auction Conducted By:
THUMMEL REAL ESTATE & AUCTION LLC
785-738-0067 or 785-738-5933

AUCTION

SATURDAY, AUGUST 17 — 10:00 AM
10848 N.W. 13th Street, — TOPEKA, KANSAS (Valencia)
Directions: I-70 west to exit 350 (Valencia Rd.) North 1 mile to 13th St. Watch for signs.

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See last week’s Grass & Grain for listings & For full list & pictures go to: www.raineauction.com
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AUCTIONEERS: Bill Raine, Steve Murray
785-256-4439 or 785-633-4610

LAND AUCTION

TUESDAY, SEPTEMBER 17 — 10:00 AM
80 ACRES NEMAHA COUNTY FARMLAND

The Willows Restaurant — **SENECA, KS**
West ½ South East ¼ Sec. 34 Twp 03 Rng. 12 east of the 6th P.M. Consists of approx. 80 acres; cropland, CRP, waterways and wildlife habitat. Property is located from the intersections of Hwy 36 & Hwy 63 just east of Seneca Ks. Go 7 miles south on Hwy 63 to 96th rd. then 1 ¼ miles west on 96th rd. This is the south east corner of the property that will be selling. This property lies on the north side of the road **watch for the signs.**

JOSEPH TAPPEHORN ESTATE, SELLERS
For more information & terms & possession see upcoming issues of Grass & Grain or go to www.MidwestLandandHome.Com

Mark Uhlik, Broker / Auctioneer 785-325-2740
www.MidwestLandandHome.com

LAND AUCTION

SATURDAY, SEPTEMBER 14 — 10:00 AM
160+ ACRES NEMAHA COUNTY FARMLAND

Community Center, 1116 Main Street — **SABETHA, KS**
Description: An approx. 160 acre tract in the north half of sec. 11 Twp 2S Rng. 14E. Commonly known as Lot 3 Bingman addition to the city of Sabetha Ks. This tract consists of approx. 160 acres of that approximately 147 acres is cropland the balance being waterways and hay meadow. This farm is gently rolling with primarily Pawnee and Wymore type of soils. The waterways are wide and conducive to making hay. The conservation work is all done and this farm is in compliance with all NRCS requirements. This farm is fully based. This property is just west of the city of Sabetha Kansas and is well kept and pride of ownership is evident. This tract has a good asphalt road along the west side “W” road.

Directions: The property is located 2 miles west of the intersection of Oregon Rd and Ks hwy. 75, then 571.48 ft south on “W” rd. This is the Northwest corner of the property that will be selling. The family is retaining approximately 13 acres in the north west corner of the existing property.

Terms & Possession: 10% down day of the sale, balance due on or before Oct. 16th 2013. Seller to pay 2013 taxes. Seller will also retain landlords share of crops and rents. The buyer will receive 51% of the mineral rights seller to retain 49% of the mineral rights. Mineral rights are intact. Title insurance, escrow and closing costs to be split equally between buyer and seller. Possession on Closing, subject to tenants rights. The tenant will be allowed to harvest the existing crops after harvest the current lease has been terminated. This property to be sold as-is. All inspections should be made prior to the day of the sale. This is a cash sale and will not be subject to financing, have your financing arrangements made prior to sale day. Midwest Land and Home is acting as a transaction broker and does not represent either party. All information has come from reliable sources; potential bidders are encouraged to verify all information independently. All announcements made the day of sale will take precedence over any other information. Nemaha county abstract and title will be the escrow and closing agent.

BINGMAN FAMILY FARMS LLC, SELLERS

Mark Uhlik, Broker / Auctioneer 785-325-2740
www.MidwestLandandHome.com

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LAND AUCTION

SATURDAY, SEPTEMBER 14 — 10:00 AM
400+ ACRES NEMAHA COUNTY FARMLAND

Community Center, 1116 Main Street — **SABETHA, KS**
Tract 1: SW ¼ Sec. 23 Twp.03 Rng. 14E. Less a small tract along the north edge. This tract consists of approximately 156 acres with approximately 128 of cropland the balance being waterways and farmstead. This farm is gently rolling with primarily Pawnee and Wymore type of soils. The conversation work is all done and this farm is in compliance with all NRCS requirements. The base acres are Wheat 33.1acres Corn 4.20acres Grain sorghum 74.20acres Soybeans 15.30acres. Fences are good. This farm has several buildings on it including a 51 x 68 general purpose barn, a steel bin with a concrete floor, a steel bin with a drying floor, and a newer 46 x 80 storage/ cattle/machine shed with an open face to the south. There is several hundred ft. of post & pipe corral type fence. This tract is on a good all weather road (116th & “W” Rds) this is the north west corner of the farm.

Tract 2: SE ¼ Sec. 23 Twp. 03 Rng. 14E. This tract consists of all hay meadows, ponds and draws. A sodbusters plan has been filed on this farm and approximately 90-100 acres could be converted to farm land according to the NRCS office. This farm is rolling in nature and has primarily Pawnee types of soils. There are approximately 5 ponds on this property and good fences. This would make a good crop farm, hay meadow or a combination of both with an excellent place to winter graze some cattle. This tract is on a good all weather road (116th & “X” Rds) this is the north east corner of the farm. Fences are good on this tract.

Tract 3: W ½ SW ¼ sec 24 Twp. 03 Rng. 14E. This tract consists of all hay meadows and trees. The soil types are conducive to crop production and approximately 50 acres could be converted to cropland. A sodbuster plan would have to be filed and applicable conservation work done. This farm also has about 25 acres of trees which would make some very good deer & turkey hunting or other outdoor pursuit. Fences are good on this tract. This tract is located along x Rd & 116th Rd. this is the North west corner of the property.

Tract 4: All of tracts 1-3 for a total of 400+ acres of mixed cropland, hay meadow, waterways, farmstead, and wildlife habitat.

Directions: From Sabetha Ks. - go 1 mile west on Oregon St. (184th Rd.) to “W” Rd. then south 7 ½ miles to 116th Rd. this is the north-west corner of the property. OR from US 75 & US 36 junction go 2 miles west to “W” Rd. then south 3 ½ miles to 116th Rd. this is the northwest corner of tract 1.

Terms & Possession: 10% down day of the sale, balance due on or before Oct. 16th 2013. Seller to pay 2013 taxes. Seller will also retain landlords share of crops and rents. The buyer will receive 51% of the mineral rights buyer to retain 49% of mineral rights. Mineral rights are intact. Title insurance, escrow and closing costs to be split equally between buyer and seller. Possession on Closing, subject to tenants rights. The tenant will be allowed to harvest the existing crops after harvest the current lease has been terminated. This property to be sold as-is. All inspections should be made prior to the day of the sale. This is a cash sale and will not be subject to financing, have your financing arrangements made prior to sale day. Midwest Land and Home is acting as a transaction broker and does not represent either party. All information has come from reliable sources; potential bidders are encouraged to verify all information independently. All announcements made the day of sale will take precedence over any other information. Nemaha county abstract and title will be the escrow and closing agent.

BINGMAN FAMILY FARMS LLC, SELLERS

Mark Uhlik, Broker / Auctioneer 785-325-2740
www.MidwestLandandHome.com

Researchers refining data on Ogallala Aquifer

(AP) – In a dark, dank room on Kansas University's west campus, you can find some of the best-kept, hard-won and most thoroughly analyzed mud in the state of Kansas.

The room houses row after row of meter-long tubes, which resemble the long fluorescent light bulbs of office buildings, but they are a translucent, super-hard plastic, fatter than bulbs, and the stuff inside has known only the dark of underground, until now.

Each tube holds a meter-long piece of a sample from the sediment below Harvey County in central Kansas. Each tells a small part of the story of not only geologic history but also, scientists hope, the future of the subterranean water system on which the region's economy, farmers and communities depend.

The filling in some tubes is so fine and sandy it looks as if it was taken from a beach. And in some sense, it was. Ancestral rivers to modern river systems in central and western Kansas dumped the sand onto the plains hundreds of thousands or even millions of years ago.

Greg Ludvigson, a sedimentary geologist with the Kansas Geological Survey, points to a tube holding a heavy granular sand, with bright auburn grains mixed in with browns and grays. "That's almost something you could put in an aquarium," Ludvigson said.

Fish might like that sort of sediment, but humans do, too, whether they realize it or not. Water moves more easily through grainy sediment, which makes the wells above it more productive.

It takes a geologist to glean much knowledge from mud, sand and rock. Two years into a five-year project, Ludvigson and the survey team can already tell us more than we have ever known about the layers of earth that house aquifers in the state.

This vertically preserved sample of sediment, which the team calls a "core" sample, was taken from the Ogallala Aquifer, a massive underground water system stretching from Nebraska to Texas.

The Ogallala is hugely important to the economy and communities of the Midwest. Farmers have long tapped it to irrigate their crops. As corn, a very water-needy crop, has gained popularity among farmers because of its market value, the Ogallala has been under more pressure than ever.

In 2012 the aquifer's water tables in Kansas dropped by three and a half feet, the second highest dip on record. With the depletion rate so much higher than what nature can replenish through the precipitation cycle, parts of the aquifer could be tapped out in fewer than 25 years.

But such projections are not as precise as they could

be. They are based on a limited understanding of the sediment that houses the underground reservoir. Ludvigson notes that previous studies have used techniques that smash up the sediment in the process of extracting it. Extrapolating from broken sediment yields results with high margins of error. And that adds vagueness to those very important projections about the Ogallala's ability to produce water.

That's where Ludvigson and the Kansas Geological Survey team come in. Using two drills, they have been able to extract preserved core samples from central and southwestern Kansas. The drills, great gear-filled mechanical beasts that vaguely resemble oil rigs, were imported from Europe because the technology isn't produced anywhere in the U.S. To give you an idea of the kind of sophisticated technology needed to get a core sample, one of the drills uses sonic vibrations to help cut through the deepest layers of sediment, which helps keep them intact.

The difficulty and expense of doing this is why it hasn't been done before. It's also why our understanding of the Ogallala and other aquifers in the plains region

is so incomplete. As Ludvigson puts it, "The point of doing a core sample is to stop guessing and start knowing."

Extracting core samples is a time-, labor- and money-intensive endeavor. The team began drilling the Harvey sample in 2011 and has come away with 98 meters, with 100 feet of harder rock left to go. They have a multi-million-dollar budget, cobbled together from the survey's budget plus grants from the U.S. Geological Survey, the U.S. Bureau of Reclamation, the National Science Foundation and the Kansas Water Office. All of that to produce five or six core samples, which Ludvigson says is a pretty good start.

Drilling is not where the labor and expense end. From there, the team has, as Ludvigson says, "thrown the kitchen sink" at the samples it has collected. They ran the sediment through a battery of tests to analyze everything they could think of and afford: isotope records, calcium carbonates, gamma radiation and signs of weathering during the sediment's life.

From all these tests, researchers can learn about the layers of earth, where they came from and how old they are, as well as the com-

position down to the finest detail. All this goes to providing an incredibly precise description of the sediment's layers that researchers can then compare to samples from other areas.

Already, the team has made important findings about the state's aquifer system. Along with the Harvey sample, the team extracted most of a core from Haskell County in southwestern Kansas, an area most had assumed was part of the Ogallala, though an especially low-flowing section of it.

But the survey team found a problem with that assumption. Their samples found that the age of that sediment was tens of millions of years older than everyone thought, meaning that it probably couldn't have been formed at the same time as the Ogallala. By getting a precise gauge on the core's age, the team

found that the sediment from Haskell might belong to a completely different water system, the White River Group that extends to Nebraska.

These are all fairly big discoveries in the world of geology and hydrology. More modest discoveries found through comparing samples can yield a more detailed picture of the sedimentary makeup of the aquifers under the plains and how it all connects. That information can then be used to make more accurate and specific predictions about the Ogallala and aquifers under the Great Plains.

The promise of the research is that it can be of direct use to water managers and farmers in central and western Kansas. Understanding the Ogallala more deeply can lead to better decisions about pumping from it. Or so Ludvigson and his fellow geologists hope.

REAL ESTATE AUCTION
SATURDAY, SEPTEMBER 14 — 10:00 AM
266 ACRES M/L, MARSHALL COUNTY
 Location: 1672 Tumbleweed Rd, Frankfort KS.- 4.5 miles west of Frankfort on Tumbleweed Rd.
 SE ¼ 10-4-8 & NE ¼ lying South of creek 10-4-8 Marshall Co. KS 118.5 ac. DCP cropland, 8.7 acres CRP, remainder clean grass & farmstead. Clean, good laying farm.
Watch upcoming issues of Grass & Grain for more info or go to website!
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115+/- ACRES BUTLER COUNTY LAND
WITH MODULAR HOME ON BASEMENT
AUCTION
THURSDAY, AUGUST 22 — 6:30 PM
 9449 NE 140TH St — CASSODAY, KS 66642
 OPEN HOUSE: Tuesday, August 13 • 5-7 p.m.
 • Approx 20 acres w/2001 model modular home and brome
 • Approx 95 acres native pasture • Pond • Factory Built Outbuilding
 Legal Description: S 28 T23 R07E, NW/4 EXC NW/4 NW/4 Less ROW
 For directions, pictures & complete information go to:
www.swensonauktion.com

 Auctioneer: Greg Farber
 316-776-1302

LAND AUCTION
FRIDAY, AUGUST 30 — 2:00 PM
152 Acres Marion County, KS Land
(offered in 2 Tracts)
*****TRACT 1 INCLUDES OIL/GAS PRODUCTION*****
 Sale held at Marion City Building Basement - 203 N. 3rd St. MARION, KANSAS
TRACT 1: 80 Acres — all grassland — WITH OIL/GAS PRODUCTION
LEGAL DESCRIPTION: E/2 SE/4 14-19-4, Marion Co., KS
LAND LOCATION: From Junction Hwys 56/77/150, 2 miles East of Marion, KS. Go 1 mile East on Hwy 150, then 2 miles North on Wag-on-wheel Road.
LAND DESCRIPTION: All grassland — A nice tract of fenced native grass with rolling terrain & pond. An old farmstead site has the remnants of an old stone barn & granary. A water well offers a year round fresh water source in addition to the pond. An accessible location just ¾ mile from Hwy 77 & 2 miles from Hwy 150.
TAXES: \$125.34
*****OIL & GAS PRODUCTION:** The sale of this 80 Acres will include all mineral rights with the land, which currently is producing Oil & Gas from 2 wells. Shawmar Oil & Gas Company is the producing company. The land owners income from the royalties have averaged approximately \$1500/year for the last 3 years.
Hedge your investments against high energy costs by buying land with current oil & gas production!!
TRACT 2: 72 Acres — Cropland & Grassland
LEGAL DESCRIPTION: S/2 SW/4 12-20-3, Marion Co., KS — less the Railroad
LAND LOCATION: From Marion, (west edge) 1 mile West on 190th (Old 56) then 2 miles South on Quail Creek Road.
LAND DESCRIPTION: The combination of cropland, grassland & woods offer a diverse range of uses for this farm. Approximately 35.57 Acres is cultivated land, (currently wheat ground). The balance is grassland, mostly native grass with a 3.5 Acre field of brome grass. Additionally, there are several acres of trees & woods along the various ridges, draws & hillsides & also along the existing railroad right of way which offer excellent deer & game bird hunting. Gravel roads bound the West & South sides that lend this land to providing numerous possible building sites at an isolated yet accessible location within a few miles of town.
TAXES: \$181.78
TERMS: Earnest money deposit in the sum of \$15,000.00 per tract due day of sale, payable to Hannaforb Title Co. The balance will be due in full on or before September 30, 2013. Title insurance cost will be equally divided between buyer and seller. Taxes will be prorated to date of closing. All financing arrangements and/or inspections must be made prior to the auction. The property is being sold in an 'as is' condition and is not subject to financing or appraisal. All information is gathered from Marion Co. sources and is deemed reliable but not guaranteed. Statements made day of sale take precedence over any advertisements, printed material or previous statements. Leppke, Inc. is agent of the Seller.
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LEPPKE REALTY & AUCTION * 620-947-3995
 LYLE LEPPKE: 620-382-5204; ROGER HIEBERT: 620-382-2963
www.leppke.com

MOVING AUCTION
SUNDAY, AUGUST 18 — 10:00 AM
306 Main — PERRY, KS
Chevrolet Blazer; Building; Guns; Furniture; Collectibles; Household & Much More!!
SELLER: VICCI ERWIN
Please visit us online at www.KansasAuctions.net/elston for pictures & full listings!!
Auctioneers:
 Mark Elston & Wayne Wischropp
 (785-594-0505) (785-218-7851)

MACHINERY AUCTION
SATURDAY, AUGUST 17 — 10:30 AM
LOCATION: Holton Livestock Exchange, Inc., HOLTON, KS
Directions: 1/2 Mile East Of Holton, Kansas On K16 Hwy
Holton Is 30 Miles North Of Topeka, Ks On 75 Hwy
TRACTORS
 2008 JD 7930 MFWD Row Crop Tractor, Triple Link Suspension, IVT Transmission, (4) Deluxe Remotes, Large Hyd Pump, 540/1000 PTO, (4) 480/80R46 Rear Radial Tires, (2) R20/90R30 Front Tires, Front Fenders, (16) Front Weights, 1000 Lbs Each Rear Tire, Buddy Seat, Excellent Condition, 2700 Hrs, SN#RW7930D008175
 1995 Case IH 9230 4WD, (8) Nearly New 18.4R42 Radials, 12 Speed Power Shift, No 3 Pt, No PTO, (3) Rear Remotes, 7000 Hrs, SN#JEE0032849
COMBINE & ATTACHMENTS
 2005 Gleaner R55 Field Star Ready Combine, 4WD, Chopper, 2500 Engine Hours, 1899 Separator Hours, Cummins Diesel
 Gleaner 8000, 8 Row, 30 Inch Corn Head, Poly Snouts, Header Height Sensing, Good Chains and Sprockets, SN#830RHM27134
 Gleaner 500, 18' Flex Header, Clear View Real, Good Condition, SN#18FRNH84500
FIELD EQUIPMENT
 2009 Kinze 3660 16/31 Split Row Planter, with Mounted In Row Liquid Fertilizer, Hyd Driven, No Till Coulters, Vision 7 Monitor, 2 Pt Hook Up, Corn and Bean Meters, SN# 660093; Kinze 3650 12/23 Split Row Planter, with Mounted In Row Liquid Fertilizer/ Ground Driven Pump, Corn and Bean Meters, KPMII Monitor SN#655132; Sunflower 1433 25' Tandem Disk, Walking Tandems on Wings and Center Frame, Good Blades, SN#1499-228; 2010 JD 2210 31'6" Field Cultivator, Permalock Sweeps, Walking Tandems on Center Frame and Wing Frames, 4 Bar Coil Tine Harrow, SN#N02201L010489; Blue Jet Landwalker NH3 and Liquid Fertilizer Combination
 Applicator, 18" Centers, Raven Controller, 500 Gal Liquid Tank; IH 4800 23' Field Cultivator w/3 bar Harrow; BMB Earth Brute 10' Hyd Blade, SN#HG-1644; BMB 6 Row 30" Danish Tine Cultivator; White Farm Equipment 379 6 Row 30" No Till Cultivator SN#350109; Glenco 9 Shank Disk Chisel, Pull Type, Straight Blades on Front Gang IH 501 14' Plow Disk; JD 350 Manure Spreader, Fiberglass Floor and HD Chain.
TRUCKS & TRAILERS
 (2) 1995 IH 9400 Road Tractors, N14 Cummins Engines, 10 Sp, Spicer Transmission, White In Color, Jake Brakes, Sleeper Cabs, Nice Condition with Good Rubber, 039335 Has 611,000 Miles, 039336 Has 700,000 Miles; (2) 2000 Wilson 41' Raised Hopper Grain Trailers, Steel Wheels, SS Corners, Front & Rear Ladders, Spring Ride, Black Sides, Shurlock Rollover Tarps, 1 Owner; Hobbs 42' Drop Deck Trailer, Air Ride, All Steel Frame; 1979 GMC 7000 Sierra Grain Truck, Drag Axle, 366 Motor, 5x2 Speed, 11RX22 Tires, Parkhurst 22' Steel Grain Bed, with Shurlock Rollover Tarp, 105,000 Miles; Westfield Endgate Hyd Fill Auger; 1984 Chevy 20 3/4 Ton Feed Truck, 4x4, 4 Sp, Bar-6 Cake Feeder, Hyd Bale Spear, 144,000 Miles.
HAY EQUIPMENT
 2008 AGCO 9330 Swather w/9120 14' Header, Steel Crimpers, 453 Hrs, Excellent Condition, SN#HT08145; JD 224T Square Bale, Twine Tie with Multi Luber, SN# 012049E.
SKID LOADER & ATTACHMENTS
 2000 Bobcat 773 with Smooth Bucket, 954 Hrs, Diesel, Good Condition SN#517622191; Bobcat Tooth Bucket; Hyd Post Hole Digger w/12 & 18" Bits; Dymax Bale Spear.
Everything on this auction has been well cared for, with most equipment always shedded. There will be no other items on this auction other than what is listed on this ad. PLEASE BE ON TIME, AS THIS WILL NOT BE A LONG AUCTION.
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 Dan Harris, Auctioneer 785-364-7137
 Larry Harris, Auctioneer 785-249-4236
 Clerk & Cashiers Cindy Grollmes • www.holtonlivestock.com



Auction Sales Scheduled

August 13 — Marion County land at Burns for Laverne R. Ammeter Estate. Auctioneers: Van Schmidt Auction.

August 13 — Pottawatomie County real estate & home, personal property at Westmoreland for Ruby & Rocky Zeller. Auctioneers: Gannon Real Estate & Auctions.

August 13 — Pottawatomie County land (auction held at) Wamego for Dale Reves. Auctioneers: Crossroads Real Estate & Auction, LLC.

August 14 — Combines, headers, tractors, balers, trucks, trailers, tillage & livestock equipment online (www.bigiron.com). Auctioneers: Stock Auction Co.

August 14 — Lane County acreage near Dighton for Alice M. Blakely Estate, Max Blakely, Glenda M. Roane, Jimmie L. Blakely, Terry F. Blakely, Lila D. Wilson, Judy L. Bleumer. Auctioneers: Berning Auctions.

August 15 — Commercial amusement equipment at Topeka for KDOR seized property. Auctioneers: Totally Auction, Jeff Ruckert.

August 15 — Firearms at McPherson for KDOWPT seized firearms. Auctioneers: United Country Eric Blomquist.

August 15 — Chase County Flint Hills acreage in 2 tracts at Cottonwood Falls for William Bergh. Auctioneers: Griffin Real Estate & Auction Service, LC.

August 16 — Real estate, home at Manhattan. Auc-

tioneers: United Country, Ruckert Realty & Auction.

August 16 — Marion County land at Marion for Life Estate of Wilfred Boettcher. Auctioneers: Leppke Realty & Auction.

August 16 — Greenwood County, Kansas land (9,162 acres) held at Eureka for Frank N. Bills Living Trust. Auctioneers: Sundgren Realty, Inc.

August 17 — Tractors, trucks, irrigation equipment, cattle & farm equipment, loader at Eureka for Frank N. Bills Living Trust. Auctioneers: Sundgren Realty, Inc.

August 16 & 17 — Furniture, antique furniture, antiques, collectibles, general household at Clay Center for Frances Selig. Contact Stephanie Avery.

August 17 — Tractors, combine & attachments, field equipment, trucks, trailers, hay equipment, skid loader & attachments at Holton for Dean & David Hug. Auctioneers: Harris Auction Service.

August 17 — Tools at Salina for Don Sawin. Auctioneers: Thummel Real Estate & Auction, LLC.

August 17 — Antiques, collectibles, arrowhead collection, jugs, crocks at Waterville for Rosamond Hula Estate. Auctioneers: Don Prell Realty & Auction.

August 17 — Equipment, tools & misc. at Junction City for Luis S. Sierra Estate. Auctioneers: Brown Real Estate & Auction Service, LLC.

August 17 — Ranch style home, Harley Davidson, car, truck, riding lawn

mower, appliances, furniture, household, tools & misc. at St. Marys for Edward Carl Dekat Estate. Auctioneers: Gannon Real Estate & Auctions.

August 17 — Household, antique furniture, tools & antiques at Topeka for Arlene & Jack Fredricks. Auctioneers: Raine Auction Service.

August 17 — 2 real estate auctions (first one at Ottawa; second one at Fontana). Auctioneers: Crossroads Real Estate & Auction, LLC.

August 17 — Hunting/recreational land & personal property at Pretty Prairie. Auctioneers: United Country National Realty & Auction.

August 17 — Farm machinery, construction, tools, building materials & more consignments at Spring Hill. Auctioneers: Southern Johnson County Auction Service.

August 18 — Furniture, guns, collectibles at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

August 18 — Blazer, building, guns, furniture, collectibles, household & much more at Perry for Vicci Erwin. Auctioneers: Mark Elston & Wayne Wischropp.

August 18 — Real estate, vehicles, household & tools at Linn for the Delbert

Rule Estate. Auctioneers: Raymond Bott Realty & Auction.

August 19 — 3 bedroom mobile home at Manhattan for Betty Roudybush. Auctioneers: Gannon Real Estate & Auctions.

August 21 — Combines, forage harvesters, headers, grain carts, tractors, trucks, air seeders, drills, tillage, livestock & harvest equipment online at (www.bigiron.com). Auctioneers: Stock Auction Co.

August 22 — Tractors, combines, corn & grain heads & trailers, loaders, construction, trucks, trailers, planters, drills, tillage, augers, wagons & grinders, hay equipment & misc. at Cornlea, Nebraska. Auctioneers: Michael Wegener Implement, Inc.

August 22 — Butler County land with modular home at Cassoday. Auctioneers: Swenson Real Estate & Auction Service, Inc.

August 23 & 24 — Furniture, antique furniture, antiques, collectibles, general household at Clay Center for Don Bureman. Contact Stephanie Avery.

August 24 — Real estate (house & acreage), mower, automobile, boat, guns & bayonets, furniture, appliances, tools & misc. at Junction City for Donald J. & Dee Campbell. Auctioneers: Brown Real Estate & Auction Service, LLC.

August 24 — 600+ Levels, some tools & collectibles at Marysville for Carl Lytle. Auctioneers: Thum-

mel Real Estate & Auction, LLC.

August 24 — Lyon County land, home & outbuildings, automobiles, utility vehicle, skid steer, farm equipment, trucks, trailers, outdoor & shop items, furniture & household at Emporia for James L. Ankrom Estate. Auctioneers: Hancock Auction & Real Estate.

August 24 — Antique furniture, antique loom, tools, antiques & collectibles at Silver Lake for Sue & Willy Workman. Auctioneers: Gannon Real Estate & Auctions.

August 24 — Depot cart, vintage box wagon, pickups, tractor, vintage tractors & vintage tractor parts, flatbed & gooseneck trailers, generator, gun, farm equipment, vintage implements, riding mower, lawn & garden, appliances, shop & tools, toy tractor & implement collection & more at Kincaid for Neil Holloway. Auctioneers: Marty Read Auction Service.

August 24 — WESTERN Jackson County real estate, brome grass, berm home, garage, shop at Emmett for Billy & Betty Sauvage. Auctioneers: Pearl Real Estate & Appraisal Service.

August 24 — Tools at Salina. Auctioneers: Lonnie Wil-

son Auctions.

August 25 — Gun safe, guns, Fenton glass, antiques, collectibles, household & yard & garden items at Manhattan for 2 area estates. Auctioneers: Gannon Real Estate & Auctions.

August 25 — Coins, Toys, Collectibles & misc. at Lawrence for Merlin & Bev Johnson. Auctioneers: Mark Elston & Wayne Wischropp.

August 25 — Furniture, sewing items, collectibles at Salina for Shirley Wolf Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

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

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

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

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

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After having this auction for 27 years you need to get items on this auction before the State of Kansas puts property tax back on farm machinery!

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HUNTING/RECREATIONAL LAND & PERSONAL PROPERTY AUCTION

SATURDAY, AUGUST 17 — 10:00 AM

Auction Location On-Site: Sun City Road 1/2 Mile E of Valley Pride Road — PRETTY PRAIRIE, KS

60 Acres m/Hunting Trophy-Stream, Pond, Food Plots & Hunting Shack

Land to sell promptly at 10 am. Legal Description: N1/2 NW1/4 Except the W20AC & Exc Rd Row Section 11 Township 26 Range 06W. 2012 Taxes \$149.27. Mineral Rights Not Included. 10% Buyers Premium

Personal Property to include: Guns, Farm & Dairy Equipment, Tractors, Tools, Mowers, Lumber, Camping Gear, Furniture, Household Items, Upright Arcade Games, Golf Cart, 1993 Dodge Dakota Pick-up and much more!

For details/photos visit website: **www.UCNRA.com**

United Country National Realty & Auction

Rita Vogt, Sales Associate Direct: 620.200.7269

Bill Eberhardt, Auctioneer Direct: 316.655.3690

ANTIQUE AUCTION

SUNDAY, AUGUST 18 — 10:00 AM

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

FURNITURE

Oak 2 door bookcase; Mission oak umbrella stand; Peerless Dye roll top dye cabinet; Diamond Dye cabinet; 2 walnut marble top dressers w/hankie drawers; burled walnut commode; 4 drawer desk top spool cabinet on legs; walnut Davenport desk; 20's dressing vanity; 20's Strand mahogany phonograph; camel back truck; pine chimney cupboard; pine corner chimney cupboard; tiger oak vanity; oak plant stands; ice cream table & 2 chairs.

GUNS & COLLECTIBLES

Cyconic Advertising brass Box 8228 cigar cutter very unusual; "Remington" Marlin Fire Arms Co picture; "Remington" winter print; "Jerry Thomas" Monumental Journey; Sandzen 17" x 14" Birch & Pine litho (signed With Best Wishes To John Darling 1925); collection Cupid pictures; Edison table cylinder phonograph; New Haven wall clock; Gilbert mantel clock; hand cigar cutter; store tobacco cutter; General Lee cast iron door stop; Book of Knowledge mechanical banks; cast iron bull dog door stop; Over-

land Jr. wagon; Revolvers inc.: Colt Peace Keeper 45, Colt 31 cal, Colt Frontier Six 45, Colt Address Sams 45, Stevens A & T 22 boot pistol, Sharps 4 barrel 22 boot derringer, WWII Liberator pistol; H & R US model 1873 45-70 Cavalry carbine rifle; 45 ammo; Hudson Bay sword; 18" bone handle knife; American Classic 1377 pellet gun; hand made branding iron; Buddy L 20" tin dump truck; collector steam tractors & engines; electric trains; Tonka construction toys; doll collection; comic books; 50's Monark ladies turquoise bike; baseball & football cards; salt dip collection; Bavaria Austria dresser set; Bohemian glass; Roseville 463; Hull Art vases; perfume bottles; pressed glass; Scotty dog collection; 1937 Dionne quintuplets & 1946 Will Rogers calendars; Precious Moments; Pfaltzgraff; fishing reels; bamboo poles; decoys; Marlow woodcuts; linens; mirrors; purse collection; Coke ice chest; Joe Camel neon light; Ohio Tool chisel; modern tools inc.; Makita table saw; assortment hand tools.

See last week's Grass & Grain for listings or check our web site for pictures at **www.thummelauction.com**

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SATURDAY, AUGUST 17, 2013

ON SITE: 917 N. Hickory **OTTAWA, KANSAS** 66067 **10:00 AM**

LEGAL: LOT 17 AND 19, BLOCK 1, BOWLES, SHELTON & TOPPING'S ADDITION TO THE CITY OF OTTAWA, FRANKLIN COUNTY, KANSAS

Tons of potential packed into this 725 sq ft, 2 bedroom, 1 bath

OPEN HOUSE FOR BOTH PROPERTIES: Sunday, July 28 from 3-4:30 PM

LEGAL: LOTS 7 AND TEN, BLOCK 15, IN THE CITY OF FONTANA, MIAMI COUNTY, KS

ON SITE: 123 S. Merrill **FONTANA, KANSAS** 66026 • **2:00 PM**

Ranch style dwelling with 4 bedrooms, 2 baths & a detached garage

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September 7 — Modern furniture & antiques at Maple Hill for Kent Raine. Raine Auction Service.

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

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

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

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

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

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

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

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

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

September 17 — Nemaha County farmland at

Seneca for Joseph Tappenhorn Estate. Auctioneers: Midwest Land & Home, Mark Uhlik.

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

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

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

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

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

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

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

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

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

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

Mechanic becomes next generation to join family farm

Continued from page 1

helping him become more of a people person centered on teambuilding around a common interest.

"Typically, I kept to myself," he said. "But when I started in FFA my eighth grade year, it was something I loved. I met my FFA advisor, and he wanted me to join the middle school green hand program. It took off from there."

His leadership skills continue today on the farm and through community involvement in organizations such as the local FFA alumni board.

"The teamwork and connections (from FFA) were something that no one could take away and you couldn't learn it anywhere else," Gierhan said. "I keep in touch with a lot of really good friends that I met through my FFA experience."

In addition to his involvement on the family farm through high school, Gierhan built his knowledge base by working with other farmers. He also gained basic skills as a mechanic.

"I started working for a local farmer and welded for four years through high school. It gave me lots of practice learning about upkeep, improvements and maintenance," Gierhan said.

Due to his interest in mechanics, Gierhan attended a John Deere training program through Southeast Community College in Nebraska.

"I received a scholarship for most of the cost of the new, top-of-the-line tools, and it also helped cover most of the tuition," he said. "I was sponsored by a local dealership, Concordia Tractor Incorporated (CTI) with a two-part internship. I graduated on June 7, 2012."

Now working at CTI in Clay Center, Gierhan enjoys the challenge of serving a whole community of farmers to fix and improve their equipment.

"I love it," he said. "It's nice because I am still involved in agriculture, but I'm off the farm a bit to see the other side of working. My dad and grandpa always told me I would be a mechanic someday because all of the little tractors I would

take apart to make them better like gluing a nail on the bucket of a toy tractor to make a hay spear. I was always messing around with something."

Never giving up his irresistible draw to return to the family farm, Gierhan continues to deepen his responsibilities with multiple roles.

"After working at John Deere, I come home to work more," he said. "I am starting to pick up more and more decision making on the farm. For example, we got a different tractor, a John Deere 7430. My grandpa ran what he thought was the best tractor, a 4020, but after many years of discussion we finally decided that it was time to get something a little newer and a little larger, something that could handle more jobs yet gives us more comfortable working conditions."

Gierhan is also doing more with the purebred Angus cattle herd.

"We're now up to 92 cow-calf pairs and 13 bulls, with all but one home-raised. I'm into tracking bloodlines and artificial insemination," he said. "We still make a lot

of group decisions with my grandpa, dad, myself and my younger brother, Ryan, who is at K-State studying agronomy. My father and grandfather are trying to get the next generation in place."

Noting the challenges in farming, Gierhan found typical setbacks to overcome.

"The struggles are the weather and finances — as most farmers will tell you," Gierhan said. "Another limiting factor is time, with work and everything else going on. I often don't get a whole lot of seat time in the fields. I cherish every little bit that I do get."

However, the benefits outweigh the struggles, he said.

"There is nothing like it," Gierhan said. "You spend so much time out getting to think about life. The best part is the harvest. Seeing so many people work together at one time is amazing. Last year, I took time off work because I didn't want to miss out. Getting to come home to a hot meal from your mom or grandma is also great. For me, farming is the best life and only life I hope to live."

USDA approves CP25 emergency haying and grazing

The U.S. Department of Agriculture (USDA) announced that it will allow emergency haying and grazing on Conservation Reserve Program (CRP) CP25 acreage in order to provide additional relief to Kansas livestock producers still struggling as the historic drought continues to persist in Kansas.

"As I travel throughout Kansas, I continue to see the devastating impact the ongoing drought is having on producers and communi-

ties," Sen. Jerry Moran said. "Western Kansas has not experienced relief from the recent rains in other parts of the state, and farmers and ranchers continue to struggle. USDA's decision to allow haying and grazing on CP25 acreage is welcome news and will provide much-needed relief to livestock operations from exceedingly dry conditions."

Multiple years of historic drought have depleted forage supplies and affected the growth of hay and pas-

ture across Kansas. Kansas has more than 840,000 acres currently enrolled in CP25, the majority of which are within the drought region. Many Kansas livestock producers have worked closely with Farm Service Agency (FSA) county directors and utilized CP25 to enhance environmental benefits. USDA authorized this same land to be used for emergency haying and grazing in 2012 and extreme drought conditions have made the authorization necessary again this year.

Emergency haying is authorized for a single period through Aug. 31, 2013. Emergency grazing is authorized for a single period through Sept. 30, 2013. In order to utilize the acreage the producer must file a request

with their local FSA office. The request will then be reviewed and, if approved, a 10 percent reduction in the CRP payment will be taken.

In July, Moran joined U.S. Sen. Pat Roberts in sending a letter to U.S. Secretary of Agriculture Tom Vilsack, calling for emergency haying and grazing of CRP lands to help livestock producers suffering from sustained and critical drought.

Moran is a member of the Senate Appropriations Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies.

For further information about CRP program benefits and regulations, go online to www.fsa.usda.gov/crp.

NCGA membership now tops 40,000

Membership in the National Corn Growers Association now surpasses the 40,000 mark, the organization announced recently, signaling deep and continued support for the 56-year-old national agriculture association. As of July 31, membership in NCGA stands at 40,157.

"We're thrilled at what this new milestone means and we salute the hard work of our membership recruiters, state and national staff, and all who have helped build this into such a respected and strong grassroots association," said NCGA president Pam Johnson, a farmer in Floyd,

Iowa. "At a time when many associations struggle to maintain strong member numbers and there are so many pressing issues on the table, our growing membership means a louder voice in our nation's capital, standing up for corn farmers throughout our nation."

Johnson credits the rise to the importance of some seriously debated issues in Washington, especially the delayed farm bill and attacks on the Renewable Fuel Standard for ethanol, which represents an important market for corn farmers. At the same time it fights for ethanol, with programs like American Ethanol

Racing and Fuels America, NCGA involvement in other ag programs, such as the U.S. Farmers and Ranchers Alliance, Common Ground and the new GMO Answers, help drive home how important feed-and-food issues are to its grower membership.

"Our members see what we're doing and recognize the importance of our work, while at the same time enjoying a wide array of benefits that make membership really worthwhile," Johnson said. "Just one example: Our National Corn Yield Contest continues to grow in popularity after nearly a half-century of ex-

istence. And new programs we've helped start and run, like the National Agricultural Genotyping Center, will help ensure we're growing markets as well as membership interest."

Founded in 1957, NCGA represents not only dues-paying farmer-members nationwide, but also the interests of more than 300,000 growers who contribute through corn checkoff programs in their states. NCGA and its 48 affiliated state associations and checkoff organizations work together to create and increase opportunities for their members and their industry.

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Do you love old tractors? New app celebrates vintage iron

Now vintage tractor enthusiasts can test their tractor trivia skills, enjoy stories of classic machines and more, on the go, with a new free smartphone and tablet app from nationally known farm broadcaster Max Armstrong. The interactive “Max Armstrong’s Tractor App” is available for iPhone, iPad and Android phones and tablets. Users will hear Armstrong’s distinctive voice inviting them to the app version of his popular TV segment “Max’s Tractor Shed,” to play “Tractor Trivia” and “What Engine is This?” games, and tune in to his daily Midwest Digest reports on Farm Progress America Radio. They can also download ringtones featuring Armstrong’s voice.

Armstrong, who owns a pair of restored vintage Farmall tractors, is excited to share his passion for iron

old and new through the app. He has reported often on the technology agricultural producers use to help them farm more efficiently, to better market their crops and to care for our environment. Providing the free tractor app to growers adds a little levity to the mix.

“I don’t think it hurts to have some fun in this magnificent industry that feeds us all,” Armstrong says. “We know that our farmers are always challenged by a variety of factors, but I am often reminded of the great sense of humor of my farmer friends, and I know they and others will love this app.” Armstrong commissioned Martinez Creative Group of St. Charles, Ill., to develop the app, with the support of sponsors Great Lakes® Hybrids and Genuity®. “Great Lakes Hybrids is excited to work with Max to launch this creative and

fun app that blends the heritage of vintage tractors with today’s agricultural news, using the latest in mobile technology,” says Doug Little, Brand Manager at Great Lakes Hybrids general manager.

Max Armstrong’s Tractor App is available for free download from iTunes for iPhone and iPad and from Google Play for Android smartphones and tablets. As part of the launch of the app, Armstrong also appears in his own music video featuring vintage tractors and a catchy song using his recorded phrases from the app. “Tractor Boy” has had more than 8,000 views on YouTube, and the song is available for download on iTunes, Google Play and as an Amazon MP3. More information at www.TheTractor Boy.com and www.Tractor GirlRecords.com.



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FRIDAY, AUGUST 23, 2013

6:00-7:00 a.m.WIBW Live Radio Broadcast

7:30 a.m.Free Breakfast

8:15 a.m.Beef Producers Seminar

9:00 a.m.Begin Flint Hills Beef Fest

Barbecue Cookoff Registration

10 a.m.-12 p.m.Practical Range Plant Tour

6:00 p.m.Ranch Feed

7:00 p.m.Ranch Rodeo

8:00 p.m.The Good Sam Club Bar-B-Que Band

SATURDAY, AUGUST 24, 2013

7:00 a.m.Registration 5K Rand Land Trust Run/Walk

8:00 a.m.5K Ranch Land Trust Run/Walk (5K located at The Orchard)

9:00 a.m.Registration Kids Tractor Pull

10:00 a.m.Ranch Horse Competition

10:00 a.m. - 2:00 p.m.Pony Wagon Rides

Trade Show w/demonstrations by Chef Gary Hild (Bowyer Building)

10:00 a.m.Kids Pedal Tractor Pull

11:00 a.m. - 1:00 p.m. Free Hamburgers & Cokes (while they last)

11:00 a.m.Barbecue Judging Begins

11:00 a.m.Hay Toss

1:00 p.m.Cow Patty Toss

3:30 p.m. (Approx.)BBQ Awards

5:30 p.m.Awards Banquet

6:30 p.m.Steak Dinner

7:30 p.m.Damian Mason, Ag Humorist

8:30 p.m. - 11:30 p.m. Six Market Blvd w/Ryan Manuel (Bowyer Building)

SUNDAY, AUGUST 25, 2013

9:00 a.m.Golf Tournament (Emporia Municipal Golf Course)

10:00 a.m.Team Roping

Unless otherwise noted, all events will take place on the Lyon County Fairgrounds Hwy. 50 & Industrial Road, Emporia, KS

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