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New regulations will help integrate use of small unmanned aerial aircraft into precision agriculture

By Steve Watson

There is good news for those in agriculture eager to take advantage of new technology in the form of small unmanned aircraft systems (sUAS), also known popularly as drones.

On June 21, the Department of Transportation's Federal Aviation Administration released its final regulations governing commercial sUAS, said Ray Asebedo, Kansas State University agronomy assistant professor of precision agriculture.

Changes in these new regulations will help integrate sUAS into the national airspace, while lessening the previous stringent qualifications for sUAS operations, Asebedo said. This will lead to more people being able to operate sUAS, and help increase technological advancements in agriculture.

The new regulations are known as Part 107 of the Federal Aviation Regulations, said Richard Brown, sUAS technologist and pilot in K-State's agronomy department, and Andrew Newsum, agronomy graduate student in the precision agriculture program.

"They will govern any sUAS under 55 pounds and take effect in late August. Part 107 regulates operational requirements, pilot and aircraft certifications," Brown said.



The use of small unmanned aerial aircraft is expected to increase as new regulations lessen the required qualifications. Precision agriculture is one of the applications to benefit from the new guidelines.

Courtesy photo

Brown summarized some of the most significant of the new FAA regulations on sUAS commercial use:

Operational requirements

Flight operations are only allowed during twilight and daylight hours. This is defined as the time between 30 minutes before sunrise to 30 minutes after sunset. Flights during twilight hours are

only allowed if the aircraft has operational anti-collision lights.

Flights must be conducted below 400 feet above ground level and the aircraft cannot reach speed in excess of 100 mph. The aircraft must be in line of sight at all times, without the aid of binoculars or similar devices, and must yield to other aircraft.

The aircraft is not allowed to operate directly over people not involved in the operation. If operating above people not involved in the operation, those people must be in a covered structure or in a covered vehicle.

The aircraft can be flown in class G airspace without contacting air traffic control. If the aircraft is going to be operated in B, C, D or E air-

space, prior permission must be received by air traffic control. The aircraft can only be operated from a moving vehicle in a sparsely populated area.

Pilot certification

To operate a sUAS the pilot must have a "remote pilot in command" certificate or be under the supervision of someone that has a remote pilot's certificate. To

receive a remote pilot's certificate, an applicant must be at least 16 years old and have passed an initial aeronautical knowledge test at an FAA-approved knowledge testing center.

Those who currently hold a Part 61 pilot's license and have a current biannual flight review will only need to take a short online sUAS specific training and test.

Part 107 requires all sUAS to be registered with the FAA. Like conventional manned aircraft, the FAA requires that sUAS be in suitable condition to maintain safe flight. However, unlike conventional manned aircraft, the FAA does not require that sUAS comply with federal airworthiness standards.

Instead the remote pilot in command is the sole person responsible for assuring that the sUAS is operational condition. The remote pilot in command is also responsible for reporting any accidents that result in damages more than \$500 to any property other than the sUAS within 10 days of the accident. This brief overview is not intended to fully cover all sUAS regulations, Brown said. To read more about Part 107 sUAS regulations see: www.faa.gov/uas/media/RIN_2120-AJ60_Clean_Signed.pdf

Consumer trends headline beef conference

By Miranda Reiman

"The prosperity of this entire industry lies with the consumer."

Ag economist Ted Schroeder made that statement during the recent Beef Improvement Federation meetings in Manhattan, Kan., June 15-17, but it

summed up the theme of the opening session.

Schroeder and fellow Kansas State University ag economist Glynn Tonsor kicked off the conference, talking about beef demand in the next two decades.

Tonsor pointed out four competitive advantages the U.S. and Canada have over trading partners:

- Trust that the product is safe and correctly identified
- A grain-finishing system that supports high-quality production
- Solid infrastructure, including transportation and research expertise
- Property rights and business practices that encourage investment

"We are not a low-cost producer," Tonsor said, and we have fierce competition. Countries like Australia and Brazil are "not standing still waiting for us to get our act together," he continued, suggesting that market opportunities will "pass us by if we don't improve on communication, coordination, signaling." Not only will the demographics of our domestic consumers change in the

next few decades, to include more Hispanics and other backgrounds, but beef's core customer base will in-

creasingly rely more on exports.

"Global is where our major growth potential

rests," Schroeder said. It's more important than ever to focus on trade negotiations and overcoming trade barri-

ers.

"The goal is to create value for everyone," said

Continued on page 3

Keep on keepin' on



While some portions of the state received enough rain to bring harvest to a temporary halt, others had the hot dry weather needed to keep them in the field. This combine was rolling west of Bennington on Highway 18.

Photo by Kevin Macy



Sweet success

By John Schrageck,
Kansas Farm Bureau

Now that gardens across Kansas are bearing vegetables, it's time to taste, enjoy and appreciate the fruits of our labor.

Just a few short weeks ago, many folks walked out to their machine sheds or garage and plucked a spade out of one of the dark corners or cranked up the turf tiller and headed for the garden. Springtime on the farm or in town always means preparing the soil, planting seeds and growing food.

Going into the first week of July, most Kansans are experiencing the dog-days of summer - you know, blistering heat, strong southerly winds and little, if any, moisture. And this summer is no different. In eastern Kansas, dryland corn has already experienced extreme heat, especially for June. By the afternoon, leaves sport that blue cast that signals stress and a need for rain. Soybeans continue to hang in there.

Some areas in southwestern Kansas are bogged down in wheat harvest be-

cause of too much moisture. Just depends on where you live.

Still for those Kansans lucky enough to toil in their own gardens, some are already picking tomatoes and cucumbers by the armfuls. Lettuce and radishes remain in the mix as well.

Growing up in the late '50s and early '60s, fresh produce wasn't as abundant in the grocery store as it is today. Knox Market, located on old Highway 24 on the west edge of Hoxie, did boast cantaloupes and watermelons trucked in from western Colorado and New Mexico.

During this period, most families grew their own. Many couldn't afford to go to the store and buy their fresh fruits and vegetables.

Today, while most people can afford to buy their produce from the local grocery

store, some still prefer to grow their own.

You just can't beat a fresh ear of corn, picked in the early morning and served slathered with butter for lunch or dinner. The kernels taste as sweet as candy. Yep, tomatoes, cucumbers, cantaloupes and watermelons all taste better when they're "fresh picked."

Also, there is nothing more satisfying than to walk out to your own garden, pick a couple of tomatoes and head for the kitchen. Once inside, wash and cut the red delight, sprinkle on a little salt and pepper. Umm they're so good.

People are discovering once again, or in most cases for the first time, how good foods taste fresh right out of the soil.

If you don't believe me, just bite into a fresh carrot, radish or slice up a cool, refreshing cucumber and slip it into your mouth. The proof is in the tasting.

Some of us were born with a sweet tooth. I'm one of them. Fresh fruit, ice cream and chocolates are my favorites. If you've ever picked fresh strawberries and sprinkled them on a heaping bowl of vanilla ice cream, you know you've just experienced a little bit of heaven right here on earth.

Sometimes popping a few fresh ones right from the vine and into your mouth is even better.

For those concerned about saving energy, eating fruits and vegetables fresh off the tree or out of the garden could be another option. Once you acquire a taste for fresh produce, you may never go back to cooking fruits and vegetables again.

So the next time you're out working in your garden this summer and the sweat begins to drip down your face and into your eyes, think about all those wonderful fresh strawberries,

tomatoes, peppers and cucumbers you'll soon eat on your own dinner table. When you harvest the fruits of your labor, you'll know it is worth it.

John Schrageck 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.

NAWG supports Senate GMO labeling agreement

Senate Agriculture Committee chairman Pat Roberts and Ranking Member Debbie Stabenow have released a long-awaited GMO labeling agreement.

NAWG applauds the bipartisan efforts to secure a national standard that preempts a state-by-state patchwork, thereby avoiding a conflict of regulatory laws between states. NAWG supports the proposed bill, which allows for a variety of labeling options which do not vilify biotechnology.

"GMOs have been scientifically proven to be safe for human consumption and there is no nutritional difference," says NAWG president Gordon Stoner. "It is vital that a patchwork of state laws not jeopardize access to safe, sustainably produced food; this national standard will assure food security for generations to come."

NAWG encourages the Senate to pass the bill as soon as possible before the coming recess.



Once again I am a week off with my column. I guess it all goes along with the day late, a dollar short. A day late I will buy, but I am way more than a dollar short. In any case, I missed getting this column written before the July 4 holiday, but even as the smoke from the fireworks settles and all of the dogs are just coming out of hiding, I want to share my thoughts on our celebration of Independence Day.

July 4 is one of my favorite holidays for two reasons. First, I am a native of Wamego and we do the 4th in a big way. The parade and fireworks are the highlight of the summer. If you don't know what I am talking about, you need to come to Wamego for the 4th of July and experience it. Words cannot describe the experience. I also think the 4th is special because it is a standalone holiday. We are a long way from the nearest holiday on either side of the 4th and that makes it special too.

However, we also need to make the 4th special because of what it stands for. It is the day we celebrate our beginning as a nation. From a fledgling colony that rebelled in a wilderness to the greatest nation our world has ever known, what we as a nation have done is quite remarkable. We should be proud of all that we are, all that we have done and (I hope) all that we will do.

A lot of great men and women have sacrificed so much for what we have. We have the highest standard of living, the most freedoms and the greatest rights of any nation at any time on earth. That is something that should not be taken lightly or for granted. We, as citizens of the United States, have more opportunities and possibilities than any other human on earth and we should be so thankful that we were lucky enough to be a citizen of this great nation.

Yes, I know there are many things going on that make us wonder. We see and hear bad news every day and it seems like maybe things are not so good. I do think we are at a crossroad in this great nation, a time where we must take a hard look at ourselves. Have we become complacent, have we matured to the point that we have lost our edge and that we take what we have for grant-

ed? I hope not.

We are facing one of the most important elections we have ever seen. Yes, I am sure there were other times in our history that we faced hard times, tough decisions just like we are now. We came through those times stronger and tougher and I hope that is the outcome of this election. I am not endorsing any candidate, calling for any change, that is for each of us to decide and vote for what we think is best. What I am saying is that we must each get involved, become informed and make a decision. Recent voter turnout is pitiful, less than half of the citizens of this country exercise the right to vote.

A heavy price has been paid for the rights and freedoms we celebrate each 4th of July and I am quite sure many people take them for granted. We are not a nation of entitlement and handouts, but many of us fall into that trap and the result is not good for our long-term health as a nation. Rather, when we are at our best, we are a nation of hard work, innovation and determination. We are leaders of industry and on the cutting edge of technology.

We are not a people ruled by a government but a government ruled by the people. We should not look to our government to guide us through trouble, we should guide our government. Our government was set up to provide protection and infrastructure to allow each one of us the freedom to become successful. Success is not a right, it is something we must earn. That is what we should be celebrating this 4th of July. We should be celebrating a nation where each person decides their own path and is in control of their own success. That is what makes us great.

I cannot wait for the parade and the fireworks. Both serve as a great reminder of just how good we have it here in the United States. We do live in the greatest nation on earth and that is something we should celebrate each day. I believe that we will continue to be the greatest nation on earth as long as we never forget the sacrifices and hard work this nation is built upon and continue to sacrifice and work hard to keep it that way.

COWPOKES®

By Ace Reid



"Durin' the drought this country sure looked hard."



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Consumer trends headline beef conference

Continued from page 1

John Stika, president of Certified Angus Beef LLC, He addressed the crowd on "The Consumer-driven Food Business."

That's the only way beef-eaters will buy more at a higher price. Something they've proven they will do if the perceived value, in the "price-value relationship," is solid. Stika shared Certified Angus Beef® (CAB®) brand demand as a case study. It's increased 98.1% since 2009, at the same

time USDA Choice demand decreased. The price side of the equation was steep when compared to other proteins, but "taste-driven consumers" still chose beef, he said.

"During the worst economy and a tighter cow herd, premium products continued to grow," Stika said.

In 2015, beef prices were 57% higher than pork and 207% higher than chicken.

"If we expect consumers to buy our product, we have to up our game," he said.

That includes continuing to engage consumers, not just with a good story, but by verifying that story.

Brad Morgan, Performance Food Group, said building relationships is key for his company. "Our customers really and truly want to know, 'Do you have our back?'" he said.

Among the most powerful groups to have an impact on beef are moms, millennials, and meat lovers. Moms control \$20 trillion in buying power while meat lovers un-

derstand beef and are squarely focused on quality, Morgan said.

"They will open their wallets to pay for the best," his slide noted.

"Millennials, whether you appreciate them or not, they like beef. They just want to know more about it," Morgan said.

In addition to a story, the product must live up to it, and Keith Belk, Colorado State University meat scientist, talked about traits cattlemen should focus on to be

sure it does.

His presentation noted tenderness as the most important measure in eating satisfaction, but "several studies have shown that when tenderness reaches an acceptable level, flavor becomes the most important driver."

The No. 1 thing producers have done in response to the call for improved quality is "turn the cattle black," Belk said, asking the beef community to do even more. He suggested looking

into the microbiome, or the animal and the bacteria that naturally live on it, to develop future tools.

"We need to learn to take advantage and capitalize on that," Belk said.

Beef quality has improved, and we are "in the most consumer-centric times we've seen," Stika said. It comes down to this advice he shared: "We need to change our perspective from, 'I'm in the cow business,' to 'I'm in the food business.'"

During National Pollinator Festival, USDA announces key measures to improve pollinator health

During National Pollinator Week and in advance of the U.S. Department of Agriculture's (USDA) seventh annual Pollinator Week Festival, the USDA is announcing two initiatives in support of the President's National Strategy to Promote the Health of Honeybees and Other Pollinators, announced just over one year ago. A review of USDA's most popular conservation program found that farmers and ranchers across the country are creating at least 15 million acres of healthy forage and habitat for pollinators, and the department has also entered into a new partnership with leading honey bee organizations that will help to ensure future conservation projects continue to provide benefits to these important species.

"Pollinators are small but mighty creatures who need our help as much as we need theirs, and that is why USDA is dedicating resources from all corners of our department to boost their habitat and better understand how to protect them," said Agriculture Secretary Vilsack. "In addition to creating healthy habitat and food for pollinators through our conservation work, USDA research is leading to breakthroughs in pollinator survival that may reverse the declines we've seen over the past few decades. We look forward to continued collaboration with America's beekeepers and honey producers to ensure this work is meaningful and effective."

USDA has signed a Mem-

orandum of Understanding with two honey bee organizations, the American Honey Producers Association and the American Beekeeping Federation, to facilitate an ongoing partnership that will ensure USDA's conservation initiatives are as advantageous as possible to pollinators and that beekeepers understand how they can benefit from USDA's conservation and safety net programs. For several years, USDA's Farm Service Agency (FSA) and Natural Resources Conservation Service (NRCS) have worked closely with these groups and others to help improve habitat for honeybees and other pollinators in various conservation programs. The National Strategy emphasized the need for public-private partnerships like this one to expediently expand pollinator-health initiatives to achieve the scale necessary to make meaningful and long-term improvements.

FSA also plays a critical role in the delivery of programs that provide a safety net for beekeepers who experience losses due to natural disasters, and the agency administers the Emergency Assistance for Livestock, Honeybees and Farm-Raised Fish Program, which provides assistance for the loss of honeybee colonies, in excess of normal mortality, due to Colony Collapse Disorder or other natural causes. These groups have helped to ensure that these safety net programs work well, and they have helped focus re-

search to learn more about

the impacts of USDA programs and make continuous improvements. This MOU creates a framework to ensure ongoing, meaningful information sharing to help beekeepers and honey bees into the future.

In addition to this MOU, a thorough review of USDA's Conservation Reserve Program (CRP) has revealed that farmers and ranchers across the country have created more than 15 million acres of healthy habitat and forage for pollinators through the Conservation Reserve Program. Of these, 269,000 acres are enrolled in a pollinator-specific initiative, but these creatures are also helped by several other CRP initiatives on private land that provide wildflowers, shrubs, and safe nesting sites through measures that are intended to improve water quality or create bird habitat.

The National Strategy called for seven million acres of land to be enhanced or restored for pollinators. Since then, USDA has more than tripled the acreage enrolled in CRP's pollinator initiative, through which USDA helps to cover the cost of planting pollinator-friendly wildflowers, legumes and shrubs, and USDA has increased the limit on this initiative in response to landowner demand so that more acres can be enrolled in the future.

USDA conducted the high-level review of existing conservation practices and other studies by the U.S. Geological Survey and

universities to determine which voluntary conservation practices benefit pollinators. FSA continues to work with USGS to assess which strategies work best to support pollinator health, and future studies may indicate that additional acres also can be considered pollinator friendly.

In its 30th year, CRP provides incentives to farmers and ranchers with the cost of establishing long-term, resource-conserving plant species, such as approved grasses or trees (known as "covers") to control soil erosion, improve water quality and develop wildlife habitats on marginally productive agricultural lands. This helps to combat global climate change and provides resiliency to future weather changes. This analysis shows that among its many other benefits, CRP also is extraordinarily beneficial to protecting and promoting pollinator species, from honeybees to monarchs, that are essential to agricultural health.

In addition to CRP, other conservation programs like NRCS' Environmental Quality Incentives Program and Conservation Stewardship Program have enabled landowners to make pollinator-friendly improvements on working lands. This voluntary conservation work also strengthens agricultural operations, supports other beneficial insects and wildlife and helps to sustain natural resources. More than three dozen NRCS conservation

practices, such as prescribed grazing and cover crops, can provide direct benefits to pollinators. In recent years, NRCS has launched targeted efforts to help honey bees and monarch butterflies to accelerate efforts to create habitat.

USDA's research and outreach agencies are working in other ways to contribute to the President's National Strategy to Promote the Health of Honeybees and Other Pollinators. For example, the U.S. Forest Service is also conducting research on pollinators while restoring and improving pollinator habitat on national forests and grasslands. Over the past six years, the USDA's Agricultural Research Service has invested more than \$82 million in cutting-edge pollinator research and over the

past decade has published nearly 200 journal articles about pollinators. USDA's People's Garden Initiative has launched a number of efforts to expand pollinator public education programs, including a bee cam that gives real time insight into the 80,000 bees who live on the roof of USDA's headquarters and pollinate the surrounding landscape.

This fact sheet contains more information about USDA's work to keep pollinators buzzing and contributing to a diverse domestic and global food supply.

To learn more about FSA's conservation programs, visit www.fsa.usda.gov/conservation or contact a local FSA county office. To find your local FSA county office, visit <http://offices.usda.gov>.

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Our Daily Bread

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

Margie Wohler, Randolph, Wins G&G Recipe Contest And Prize

Winner Margie Wohler, Randolph: "How is this for a cool salad! Is pretty to put lettuce leaves in small glass dishes and then the salad for a luncheon."

HAWAIIAN CHICKEN SALAD

2 1/2 cups diced cooked chicken
20-ounce can pineapple tidbits, drained
1 cup seedless red grapes, halved
3/4 cup sliced celery
3/4 cup mayonnaise
1/2 teaspoon salt
1/4 teaspoon pepper
1 cup navel orange segments
3/4 cup sliced firm bananas
1/3 cup salted peanuts

In a bowl combine the first seven ingredients. Fold in oranges. Cover and refrigerate until chilled. Just before serving, fold in bananas and sprinkle with peanuts. Yield: 8 servings.

Mary Rogers, Topeka:
EASY MEATBALLS

1 pound ground beef
3/4 cup dry bread crumbs
1/2 cup water
1 egg
1 teaspoon salt
1 teaspoon black pepper
28-ounce jar spaghetti sauce
1/3 cup grated Parmesan cheese
1 cup shredded mozzarella cheese, optional

In a large bowl combine ground beef, bread crumbs, water, egg, salt and pepper; mix well. Form the mixture into 15 meatballs and place in a microwave-safe 9-by-13-

inch baking dish. In a bowl combine the spaghetti sauce and Parmesan cheese; pour over the meatballs. Cover with plastic wrap and microwave at 70 percent for 12 minutes or until the meatballs are completely cooked through. Remove the wrap and sprinkle with mozzarella cheese, if desired. Microwave for an additional 1 1/2 minutes or until the cheese is melted.

Kellee George, Lawrence:
CORN & ZUCCHINI SAUTE
1/2 stick butter
1/2 cup diced white onion

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The winner each week is selected from the recipes printed.

Send us your favorite recipe. It may be a main dish, leftover, salad, side dish, dessert, or whatever you have.

1. Check your recipe carefully to make certain all ingredients are accurate and instructions are clear.

OR e-mail at:
auctions@agpress.com

2 cups chopped zucchini
3 ears corn cut off cob
1/2 teaspoon salt
1/2 teaspoon pepper

Heat butter in a large skillet over medium heat until foamy and lightly browned, 1 to 2 minutes. Cook onion, stirring occasionally, until tender and translucent, about 5 minutes. Add zucchini and cook stirring occasionally until crisp-tender about 5 minutes. Add corn, salt and pepper and cook, stirring occasionally, until corn is tender, about 3 minutes.

Lydia J. Miller, Westphalia: "Reminds me of hot cider, although it has fewer calories and no added sugar. Delicious served with warm biscuit or scone."

KRISTA'S SPICED TEA

3 cups boiling water
3 cinnamon flavored tea bags
1/3 cup light orange juice
1 teaspoon lemon juice
1/3 cup Splenda granulated sweetener

1. Steep tea bags in water for 5 minutes. Remove bags and discard.

2. Add orange juice, lemon juice and sweetener.

3. Stir & serve.

Variation: serve cold with ice.

Another one from Lydia J. Miller, Westphalia:

ZUCCHINI STUFFING

CASSEROLE

4 medium zucchini, sliced 1/2-inch thick
6 tablespoons butter or oleo
3/4 cup shredded carrots
1/2 cup sour cream
1/2 cup chopped onions
2 1/4 cups herbed stuffing mix
1 can condensed cream of chicken soup, undiluted

Cook zucchini in boiling, salted water until just tender; drain. In a saucepan melt 4 tablespoons oleo. Add

carrots and onion; saute until tender. Remove from heat; stir in 1 1/2 cups stuffing cubes, soup and sour cream. Gently stir in zucchini. Spoon into 1 1/2-quart casserole. Melt remaining 2 tablespoons oleo. Add remaining stuffing cubes to oleo and toss gently. Sprinkle on casserole. Bake at 350 degrees for 30 to 40 minutes.

Millie Conger, Tecumseh, shares the following recipes:

EASY SUMMER CAKE

1 angel food cake
1 package lemon gelatin
1 carton Cool Whip
1 package instant lemon pudding

Slice cake into 12 slices. Use 9-by-13-inch pan. Lay slices in pan to cover bottom. Dissolve gelatin in 1 cup boiling water. Add 1/2 cup cold water. Let this mixture set a few minutes to cool down some. Pour over the slices of cake so it can soak in. Make pudding according to directions on package. Fold Cool Whip into pudding. Spread over gelatin-cake.

NOTE: You can use any flavor gelatin and pudding.

FARMERS BREAKFAST CASSEROLE

3 cups frozen hashbrowns
3/4 cup Monterey Jack shredded cheese
1 cup cubed cooked ham
1/4 cup green onion, chopped
4 well-beaten eggs
1 can evaporated milk
1/4 teaspoon salt
1/4 teaspoon pepper

Grease a 2-quart casserole. Arrange potatoes on bottom. Sprinkle with cheese, ham and onion. Combine eggs, milk, salt and pepper. Pour mixture over top. Refrigerate overnight. Bake at 350 degrees for 40-50 minutes or until set. Let rest 5 minutes before serving.

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Leftover Makeovers and Refrigerator Reboots

By Cindy Williams
Meadowlark Extension District

Food and Nutrition

The U.S. Department of Agriculture (USDA) estimates about 90 billion pounds of edible food goes uneaten each year in homes and away-from-home eating places. This is equal to 123 times the weight of the Empire State Building and costs consumers about \$370 per person each year.

Here is a breakdown from USDA on how much food is wasted from each food grouping per person yearly:

* Grains: \$22.00

* Fruits: \$45.00

* Protein Foods (meats, poultry, fish, eggs and nuts): \$140.00

* Vegetables: \$66.00

* Dairy: \$60.00

* Added Fat and Sugar: \$37.00

Got some leftovers languishing in your refrigerator? Or perhaps little bits of foods that are almost past prime time to eat. Read on if their next stop is likely to be the trash can.

Give new life to still edible foods with the following gallery of delicious ideas. As a general rule, use leftovers within three to four days.

Meats, Vegetables, Pasta: Search your fridge for foods that can be combined into a soup. Add extra cooked pasta or rice at the end, so it heats through but doesn't become mushy from overcooking. Keep some chicken stock or canned, diced tomatoes on hand for a quick soup base.

Fruit, Yogurt: Chop and combine those last pieces of fruit. Flavored or plain yogurt perhaps sweetened with a little honey and a splash of vanilla makes a tasty dressing. Other possible add-ins include the remainder of that package of nuts and those final bits of dried fruit.

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Spice up Summer Meals with Salsa

By Barbara L. Ames
Wildcat District Extension
Family and Consumer
Sciences Agent

Are you looking for new ways to enjoy the delicious produce that's available this summer? Salsas, Spanish for the word "sauce," are low in calories, full of flavor, and available with a variety of ingredients, from tomatoes, jalapenos and habaneras to mangoes, pineapples, strawberries and even beans. A great way to celebrate delicious summer produce is by experimenting with different salsa recipes. Salsas can be scrambled in eggs, dished as a garnish for chicken and fish, or served as an ice cream topping. Salsas are enjoyed for their intense flavors and colors. Check out the following tips for sensational salsas.

Add taste without adding lots of calories.

A combination of tomatoes, onions and peppers can add zest to chips. A mixture of fruit, herbs, onion, and pepper added to meat or fish can add unique flavors to dishes. There are a variety of salsa options for different preferences and dishes such as spicy, hot, sweet, savory, herbal and aromatic.

Salsa ingredients and preparation tips.

Keep cut fruits, such as apples, pears, bananas and peaches, from turning brown by coating them with an acidic juice such as lemon, orange or pineapple juice. Or, use a commercial produce protector and follow the manufacturer's directions. Cover and refrigerate cut fruit and veggies until ready to serve. Most salsas taste best if refrigerated for about an hour before serving to let flavors blend.

Serve salsa safely.

Perishable foods like dips, salsas, and cut fruit and vegetables should not sit at room temperature for more than two hours. If you will be serving items such as these for a longer period than this, set out a smaller bowl and then replace it with another one when it is empty. Do not add fresh dip or salsa to dip or salsa that has been sitting out. Refrigerate and use up any that

has not been served within three to four days of preparation.

Salsa canning basics.

Canning your own salsa recipe or changing the proportions of ingredients in a tested salsa recipe can be unsafe. The types and amounts of ingredients used, as well as the preparation method, are important considerations in how a salsa is canned. Improperly canned salsas or other tomato-pepper combinations have been implicated in more than one outbreak of botulism poisoning. If you don't have a tested recipe or proper canning equipment, you might try freezing your salsa. Be aware there may be changes in texture and flavor after freezing and thawing, so try freezing a small amount the first time. Herbs and spices may taste better if they are added fresh just before serving. If you are new to canning or need a refresher course, check out resources and information at: <http://www.rrc.k-state.edu/preservation/index.html>.

Salsa is great for snacks and entrées, but it can also be used in desserts and baked goods. The choices are truly endless with the different combinations of fruits, vegetables, and herbs and spices. So experiment a little ... spice up your summer meals and snacks with salsa.

Adapted from Lisa Franzen-Castle, PhD, RD, University of Nebraska-Lincoln Extension Nutrition Specialist. Healthy Bites Newsletter, <http://food.unl.edu/healthy-bites-may-na>



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tional-salsa-month, May 2016.

For more information about this topic or other topics, contact the Wildcat Extension District offices at: Crawford County, 620-724-8233; Labette County, 620-784-5337; Montgomery County, 620-331-2690; Pittsburg Office, Expanded Food and Nutrition Education (EFNEP), 620-232-1930. Wildcat District Extension is on the web at <http://www.wildcatdistrict.ksu.edu>. Or, like our Facebook page at facebook.com/wildcat.extension.district.

Mango Tango Black Bean Salsa

16 servings

Mangos are high in both Vitamin A, which is crucial for our vision, and Vitamin C, which helps heal and repair body tissues and keep our immune system strong.

1 mango
15-ounce can black beans, drained & rinsed
7-ounce can whole kernel corn with peppers, drained
1/4 cup onion, finely chopped
1/4 cup fresh cilantro, coarsely chopped
2 tablespoons lime juice
1 teaspoon garlic salt
1/4 teaspoon ground cumin

Wash and peel the mango then cut in half length-wise. Throw away the seed. Cut into 1/4-inch cubes.

In a medium bowl, combine all ingredients and mix well. Refrigerate until ready to use. Serve with tortilla chips.

Nutrition Information

per Serving: Calories 30, Total Fat 0 g (0% DV), Saturated Fat 0 g (0% DV), Cholesterol 0 mg (0% DV), Sodium 250 mg (11% DV), Total Carbohydrate 7 g (2% DV), Dietary Fiber 2 g (7% DV), Sugars 3 g, Protein 1 g, Vitamin A 2%, Vitamin C 8%, Calcium 2%, Iron 1%.

Source: University of Nebraska Lincoln Extension

Fruit Salsa with Cinnamon Chips

Makes 8 servings

1 cup chopped fresh strawberries or 1 (10-ounce) package frozen strawberries

1 apple, cored & chopped
2 kiwi, peeled & chopped
1/2 cup crushed pineapple, drained
2 tablespoons pineapple juice
8 (8-inch) flour tortillas
2 teaspoons water
2 teaspoons cinnamon
3/4 cup sugar

Directions for Salsa:
Chop strawberries, apple and kiwi and combine in a bowl. Add drained crushed pineapple and 2 tablespoons pineapple juice to chopped fruit. Chill.

Directions for Cinnamon Chips:

Sprinkle tortillas with water or spray with water. Sprinkle each tortilla with the cinnamon and sugar mixture. Cut each tortilla in 8 wedges and place on baking sheet. Bake at 350 degrees for 6 minutes. Cool on rack and store cinnamon chips in an airtight container.

Source: University of Nebraska Lincoln Extension

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Reheating Food: Does It Make It Safe?

If you reheat food that was forgotten on the counter overnight or was left out all day, will it be safe to eat? Two hours is the MAXIMUM time perishable foods should be at room temperature (ONE HOUR at temperatures 90 degrees F. and higher). This INCLUDES the time they're on the table during your meal. Just ONE bacterium, doubling every 20 minutes, can grow to over 2,097,152 bacteria in 7 hours!

Perishable foods include: Meat, poultry, seafood and tofu (bean curd); dairy products; cooked pasta, rice and vegetables; and fresh, peeled and/or cut fruits and vegetables.

Reheating foods may not make it safe. If food is left out too long, some bacteria, such as staphylococcus aureus (staph), can form a heat-resistant toxin that cooking can't destroy.

One of the most common sources of staph bacteria is the human body. Even healthy people carry staph. According to the U.S. Food and Drug Administration, staph bacteria are present in the nasal passages and throats and on the hair and skin of 50 percent or more of healthy individuals. Staph bacteria are found in facial blemishes, cuts and lesions.

Most likely, the only way you'll know if a food contained staph bacteria is when someone gets sick.

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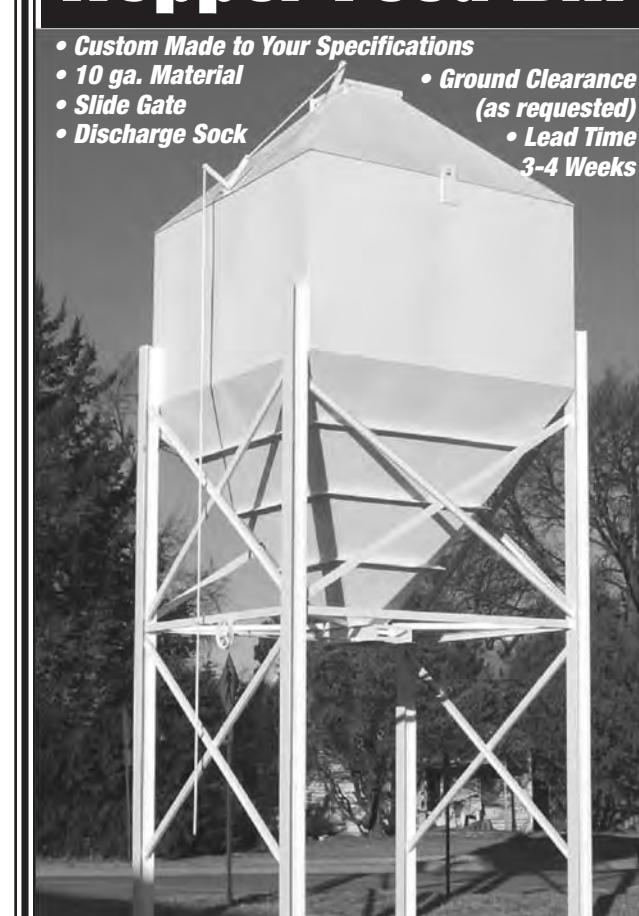
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THE WAY WEST

By Jim Gray

Tragedy on the Santa Fe Road

The Emporia News of July 12, 1862, was filled with reports of the war between Union and Confederate forces in Virginia. General McClellan's forces were repelled from the Rebel Capital of Richmond to make a stand at a place called Malvern Hill. A dispatch dated July 3, 1862, reported that despite withdrawing from its push to take Richmond the Union Army "had beat the enemy badly."

The battles in the east had their origins in Kansas years before as the territory struggled to achieve statehood. While tens of thousands of soldiers shed blood on the battlefields of the American Civil War, Kansans were trying to build communities in the shadow of the war.

With that in mind the same issue of *The News* related a particularly alarming report of a murder under the byline "Terrible Tragedy on the Santa Fe Road!" The trouble had begun earlier with stolen horses along a stretch of the Santa Fe Trail in the north-

ern part of Lyon County, just north of Emporia. Settlers were understandable anxious at the thought of a gang of horse thieves operating in their midst. At Rock Creek Crossing, Arthur Baker served as postmaster for Agnes City. Like so many prairie towns Agnes City existed mostly in the vision of its founder. Although Agnes City was a popular campsite on the Santa Fe Trail and with just the right bit of luck it might fulfill Arthur Baker's dream. Baker ran a store and blacksmith shop there. He fancied himself as an attorney and although he had not passed the bar, neighbors referred to him as Judge Baker.

When Baker discovered that several of his horses had been stolen he immediately set out to find them. About eighty miles west of Council Grove, which would place him at or near the crossing of the Little Arkansas River, he caught up to a Mexican driving his horses. How he overcame the horse thief was not related, however Baker did

succeed in returning to his store with the thief. A constable was placed in charge of the suspect and held at Baker's house.

In the meantime, Judge Baker let it be known that the Mexican was not the only thief in the country. An affidavit was filed implicating Jim and Bill Anderson, brothers and the sons of William C. Anderson, a former friend whose relationship with Judge Baker had turned sour. Accusing the Anderson boys of stealing horses did not improve the relationship.

At noon, Monday, May 12th, with a little whiskey under his belt the elder Anderson went to Baker's place, stepped in the door, and called upstairs saying he was going to shoot Baker. He had made threats before but this time Anderson was coming upstairs with a loaded gun in his hands. A shot rang out from the top of the stairs as Baker's bullet ripped through Anderson's chest, killing him instantly.

That night a crowd of people rushed into Baker's house and took the Mexican "and hung (him) to the nearest tree until dead." Young Bill Anderson, thinking that he was next, fled the neighborhood. Some said he went to Missouri.

Thursday evening, July 3rd, a man stopped by Baker's house saying that he needed some supplies from the store. Judge Baker and his brother-in-law, George Secor were used to strangers passing through and proceeded to the store

as they had done so many times before. But, just as they reached the door four men charged them with guns blazing. Baker and Secor were hit, but not out of the fight. Baker fired back, hitting one of the attackers in the leg. Inside the store, the two wounded men sought refuge through a trap door in the floor behind the counter. The *News* reported that "Baker fell into the cellar in an expiring condition... The cutthroats... closed the door and piled boxes and barrels upon it and set them on fire." With the burning building falling in about them Baker murmured to his brother-in-law, "I am going." When all seemed lost Secor remembered a back window through which he feebly made his escape. He lived long enough to tell the tale before he breathed his last breath the next day.

The "cut-throats" rode east along the Santa Fe Trail, robbing and "committing depredations... at every point which they passed." The "Tragedy on the Santa Fe Road" was just the beginning for young Bill Anderson whose treacherous ways would earn him the name, "Bloody Bill," one of the most feared names to be found on The Way West.

"The Cowboy," Jim Gray is author of the book *Desperate Seed: Ellsworth Kansas on the Violent Frontier*, Executive Director of the National Drovers Hall of Fame, and Trail Boss of THE Texas Longhorn Cattle Drive/Chisholm Trail '17. Contact Kansas Cowboy, P.O. Box 62, Ellsworth, KS 67439. Phone 785-531-2058 or kansascowboy@kans.com

Future Angus stockmen to attend AI school

Future Angus Stockmen, offered through the American Angus Association, strives to equip the beef industry's future generations with the tools and knowledge they need to be successful. This year, the program partnered with Select Sires to sponsor one Future Angus Stockmen participant to attend artificial insemination (AI) school.

"At Select Sires, we look forward to supporting a Future Angus Stockmen participant in attending an AI school of their choice, and contributing to their future goals and quality of their cow herd," says Brian House, vice president, beef program and product manager for Select Sires.

Benjamin Hicks, Carrollton, Ga., was selected as the recipient, and says they currently use AI in their operation and it is important for him to better understand the technology.

"AI is crucial to our operation," says Hicks, who serves as herdsman at MM Cattle Co. "In my own herd, AI will allow me to selectively breed my cattle, so I can produce better quality calves to market to consumers. Through breeding selection, I will be able to not only enhance my own personal herd, but also the entire herd I care for at MM Cattle Co."

Future Angus Stockmen is aimed toward college-age or recent graduates who want to raise high quality

Angus-based commercial cattle. The program offers educational opportunities that teach participants how to thrive in the cattle industry, social networking to connect them with fellow producers, and leadership development to instill an entrepreneurial spirit and drive to improve their businesses.

Association director of commercial programs Ginette Gottswiller says programs such as Future Angus Stockmen allow young producers the opportunity to find out how certain tools can help their operation.

"We want our young producers to be successful," Gottswiller says. "In today's high input world with volatile markets it is very important for beginning ranchers to understand data can help improve a thin margin. We hope Future Angus Stockmen participants realize the value Angus genetics and the Association's comprehensive database provides to the industry."

Future Angus Stockmen provides young producers, like Hicks, an opportunity to expand their knowledge of the breed and the tools available to move their operation forward. He says their goal at MM Cattle Co. is to produce affordable and sound breeding sires for producers nationwide.

"I plan to keep growing my own herd and at the same time offer top quality cattle to buyers," Hicks says. "I hope to one day operate a purebred registered-Angus herd."

For more information or to get involved in the Future Angus Stockmen program, go online or contact the Association's commercial programs department.

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AROUND KANSAS



The mornings are delicious.

The cool breeze comes in from the wheat field. The barn cats are clamoring for breakfast. Some of them rub against my leg and others stop and hiss; no matter how many times I feed them they

remain suspicious. The horses graze lazily and Minnie and Pearl, the mule team, perk up as soon as they see me in hopes of carrots.

The farmhouse was built in 1911, a Sears and Roebuck kit from the days when

you could, and did, order anything and everything from a catalog. The paint is peeling and the porches are sagging. It needs some attention, but she is beautiful, maybe more so because of her age.

There is a wheat field to the south, pasture to the east and north, corn to the west, and I swear, you can see all the way to Mongolia. The sunrises and sunsets are works of art, making evening as delicious as morning.

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efficiency.

"It takes care of one of the major inefficiencies of a typical sprinkler package, where you have all the soil surface wetted and generally wet the crop canopy," Rogers said. "The water on the surface is exposed to higher evaporation rates and reduces your irrigation efficiency. That's the advantage of the (mobile irrigation) system; we're trying to get higher efficiency by reducing the evaporation losses."

Because of the interest in this technology, three demonstration farms have been established to observe it under field conditions. The Kansas Department of Agriculture and the Kansas Water Office, in developing a 50-year water vision plan for the state, have expressed support for the field trials. Funding has come from industry and private organizations, as well as the U.S. Department of Agriculture and the Kansas Water Office.

"Part of that (water vi-

sion) plan was to establish some sites to demonstrate new and improved irrigation technology," Rogers said. "So it seemed like a natural fit with producer interest and the Kansas Department of Agriculture interest to look at what we might do to help further improve irrigation efficiency."

The researchers plan to analyze the potential benefits, which are usually measured in yield increases or improvements in water productivity versus the cost of increased management, which is required to install and operate these systems, according to Rogers.

"We already talked about the benefits of potentially increasing irrigation efficiency, but it does come at a cost of some other management issues you have to overcome," he said. "These require the crops to be planted in a circle versus straight rows; you have a lot more hardware out there, which requires more costs and a bit more management."



Burns Steer 1584 won grand champion steer at the 2016 Kansas Junior Angus Association Preview Show, June 3-4 in Hutchinson. Morgan Woodbury, Quenemo, owns the May 2015 son of Dameron C-5 American Classic. Jeff Jackson, Walnut Springs, Texas, evaluated the 90 entries. *Photo by Jeff Mafi, American Angus Association*

Therefore, mobile drip irrigation can be custom designed for each location in the field, he said, and producers could realize uniform water applications at each line. While customization may appeal to today's producers, the real advantage of the system is its potential to increase water ef-

fectiveness.

Club!). For birdwatchers, Kansas is heaven. A great place to start is Kirwin National Wildlife Refuge.

According to their website, Kirwin Refuge was established to conserve, maintain, and manage wildlife and habitat for migratory birds. The nearly 11-thousand-acre refuge is located in the rolling hills and narrow valley of the North Fork of the Solomon River in Phillips County.

The Refuge lies in an area where the tall grass prairies of the east meet the short grass plains of the west. As a result of this merging of prairies and plains, grasses and wildlife common to both habitats are found on the Refuge. Over

10,000 migrating waterfowl can be seen on the Refuge during fall through early winter. Other migratory birds, including the endangered whooping crane, can be found on the Refuge.

Since the emphasis is on migratory birds. The Refuge provides food, shelter, and nesting areas for migratory birds. Depending on reservoir water levels, Refuge staff use a variety of management practices. Corn, wheat, and milo are grown through a cooperative farming program with a portion of the crop left in the field to provide food for migrating waterfowl and resident wildlife.

To minimize disturbance to wildlife and to comply

with federal laws, policies and regulations, many activities, like camping and water sports, are prohibited on the Refuge.

The list of don'ts is long because the number of birds depending on this site is so long. Respect the property and its purpose, take the kids and do some amazing bird gazing!

Deb Goodrich is the cohost of Around Kansas, the Wednesday feature of AGam and airs throughout the state and is archived online at aroundkansas.com. For story ideas, comments, or advertising information, contact her at author.debgoodrich@gmail.com.

From the field: mobile drip irrigation aims to use water more efficiently

Using water efficiently is at the forefront of many agricultural producers' minds, and the advent of mobile drip irrigation aims to create a more resourceful way to water crops. Danny Rogers, professor of biological and agricultural engineering at Kansas State University, and other researchers are analyzing the technology and looking at ways to improve it in new field trials throughout Kansas.

Other researchers on the project are located in Garden City, and include Isaya Kisekka and Jonathan Aguilar, both water resource specialists for K-State Research and Extension.

"Mobile drip irrigation is the marriage of center pivot technology and micro-irrigation technology," said Rogers, a K-State Research and Extension irrigation engineer. "In this case, we have specially designed drip lines that then are attached to the platform of the center pivot, and they're basically drug in a circle on the surface."

"The water then is applied in narrow strips on the surface to wet a small portion of the area," Rogers added. "You can control the amount of water by the length of the line, so you can customize as you move out from the center of a pivot to apply more and more water."

Therefore, mobile drip irrigation can be custom designed for each location in the field, he said, and producers could realize uniform water applications at each line. While customization may appeal to today's producers, the real advantage of the system is its potential to increase water ef-

iciency.

The researchers plan to analyze the potential benefits, which are usually measured in yield increases or improvements in water productivity versus the cost of increased management, which is required to install and operate these systems, according to Rogers.

"We already talked about the benefits of potentially increasing irrigation efficiency, but it does come at a cost of some other management issues you have to overcome," he said. "These require the crops to be planted in a circle versus straight rows; you have a lot more hardware out there, which requires more costs and a bit more management."

With further mobile drip irrigation research, he said, findings will hopefully show how producers can improve or maintain full yield potential with more efficient water usage. Reducing water usage would decrease overall water costs.

"We'll be observing these same fields over time, in the three- to five-year time range," Rogers said. "That helps us see whether

the performance is stable under a variety of climatic conditions."

For more information about K-State Research and Extension and its work on the state's water challenges, log on to <https://www.ksre.k-state.edu/agriculture/water/>. More information about water technology research in response to the Kansas 50-year Water Vision plan can be found in a recent

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Page 8

Grass & Grain, July 5, 2016

Grocers modify options to attract millennials

The NPD Group released a new report, "A Generational Study: The Evolution

of Eating," which highlights how supermarkets are changing their foodservice offerings by adding restaurant-quality, chef-driven menus and better in-store experiences to attract the millennial demographic. According to the report, in-store dining and take-out of prepared foods from grocers has grown nearly 30 percent since 2008 and accounted for 2.4 billion food-service visits and \$10 billion of consumer spending in 2015. Over 40 percent of the U.S. population pur-

chases prepared food options from grocery stores. Since millennials have a history of frequenting grocery stores less than other age groups, stores have been working to attract them and are gaining traction.

"Millennials' interest in the benefits and experience supermarket foodservice offers will continue to be strong over the next several years," says David Portalatin, vice president, industry analysis at NPD Group. "This forecast bodes well

for food manufacturers and retailers who have their fingers on the pulse of what drives this generational

group. Give the millennials what they want—fresh, healthier fare and a decent price—and they will come."

To learn more about the report, visit <http://tinyurl.com/NPD-6-17-16>.

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PRCA Rodeo @ 8:00 p.m.

Saturday, July 9th:
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Events Sponsored By:

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There will also be 4-H & FFA Exhibitors!

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The wheat trucks line up at the Farmway Co-op elevator in Leonardville as harvest marches across Kansas.

Photo by Kevin Macy

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Red Hills rancher works to restore prairie grasslands

**By Sandra Murphy,
Communications Specialist
with the Lesser
Prairie-Chicken Initiative**

Under Ed Koger's care, the Hashknife Ranch is home to a thriving population of lesser prairie-chickens and a robust cattle operation. Koger's conservation ethic is rooted deep in the Kansas prairie. A fifth-generation Kansan, Koger recalls his maternal grandmother's words when he was a boy growing up in the Flint Hills. "She'd say, 'we don't own the land—it belongs to our Maker, and we need to take care of it and leave it better than we found it.'"

For more than 40 years, that principle has guided Koger's management of the Hashknife Ranch in the Red Hills of southwest Kansas. When Ed assumed operation of the Hashknife in 1974, he brought the Flint Hills fire culture with him. Knowing firsthand how fire improves grassland health and productivity, Ed pioneered prescribed burning in the Red Hills, where it was seldom if ever used for habitat management. Despite plenty of local skepticism, he began burning his pastures in 1977.

In the early 2000s, Koger shifted from burning whole pastures to burning only a portion of each pasture each year. This practice, known as "patch burn grazing," mimics historic dynamics in which the interaction of fire and grazing by large mammals — mainly bison — shaped prairie habitat.

Koger attributes the

health and resilience of the grasslands, wildlife, and cattle on his ranch to his burning practices. His overall management, which includes prescribed burning, improves soil health and nutrient cycling, increases native plant and wildlife diversity, reduces the risk of catastrophic wildfire, and increases drought resilience and carbon sequestration. These ecological benefits, in turn, yield higher quality forage and increased livestock utilization, which benefits Koger's ranching operation.

"As long as I incorporate fire in my management of the prairie on this ranch," he says, "I'm going to have more wildlife, and I'm going to produce more pounds of beef."

For as long as he's managed the Hashknife, Ed has managed for the wildlife species needing the most attention. As he puts it, "If I take care of that species, everything else will fall into place and take care of itself." On the Hashknife, the lesser prairie-chicken is that species.

"Back in the '70s, I had a few prairie-chickens—20 to 30 birds, maybe. When I started cutting the cedars aggressively and started burning, the numbers started going up. The more I cut and burned, the more chickens there were, along with quail, and grasshopper sparrows, and everything else."

Researchers from Kansas State University study the Hashknife's thriving lesser prairie-chicken population, helping build scientific understanding of this umbrella species. This knowledge directly informs the management strategies of the LPCI partnership, which works to restore lesser prairie-chicken populations.

tific understanding of this umbrella species. This knowledge directly informs the management strategies of the LPCI partnership, which works to restore lesser prairie-chicken populations.

Looking out across the ranch's rolling grasslands, Koger says, "I feel like the luckiest guy in the world that I get to take care of all this while I'm here." Lucky, too, for the rest of us, who benefit in so many ways from his remarkable stewardship.

LeDoux to perform at Santa Fe Trail Ranch Rodeo

The son of a country music icon who is now making a name of his own will perform at the Santa Fe Trail Ranch Rodeo on Friday, July 8. Ned LeDoux, son of the late Chris LeDoux, will take the stage Friday evening, performing many of his dad's songs as well as a few of his own.

Put on by the Morris County Youth Rodeo Association, the Ranch Rodeo is sanctioned by the Working Ranch Cowboys Association and will take place both Friday and Saturday night. There will be a junior ranch rodeo Saturday morning and the second night of rodeo action will take place that evening. Champion teams will qualify for the WRCA Finals in Amarillo in the fall.

This year will mark the 30th anniversary of the ranch rodeo at Council Grove, the oldest in the state. According to their website, the Morris County Kansas Youth Rodeo Association (MCYRA) exists to encourage youth involvement in horse-related activities, provide community recreation and offer unique entertainment. They hold three main events each year at the Morris County Rodeo Arena: the Santa Fe Trail Ranch Rodeo, Youth Rodeo and a Fall Ranch Rodeo. Money raised at these events go to fund scholarships for youth in the community who are involved with rodeo activities. For more information about the Santa Fe Trail Ranch Rodeo, visit www.mrcyouthrodeo.com.



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Beautiful secluded homestead with 40 acres including 10 acres of pasture and 8 tillable acres. Apricot, peach, pear and three types of apple (Honeycrisp, Fuji & Golden Delicious) trees. The property also boasts a heated 30x60 shop, a 60x40 pole barn, garden shed and a tennis court. The home has a spacious master suite on the main floor and many modern updates while still maintaining classic charm. There is a good well on the property and an electrical crossover generator. New water heater & sump pump installed May 2016

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Central Heights FFA member wins State Proficiency Award

A member of the Central Heights FFA chapter was recognized for having one of the best career development programs in the state at the 88th Kansas FFA State Convention, June 1-3, 2016, on the Kansas State University campus.

Cade Hibdon received a State FFA Proficiency Award in Diversified Livestock Production during the convention for outstanding accomplishments he has made in developing programs that will prepare him for a career in agriculture. This award is sponsored by McPherson County Feeders.

The proficiency award program recognizes students for exceptional accomplishments and excellence in a Supervised Agricultural Experience (SAE) program. This program allows students to set goals and gain real-world experience in a chosen area of the agriculture industry.

Hibdon has a combined entrepreneurship and placement SAE that focuses on his own commercial cow herd and ewe flock as well as working for Valleybrook Farms, a show pig and commercial hog operation. He owns 14 head of commercial crossbred cows, as well as 27 head of commercial ewes. He helps with general farm labor at Valleybrook. Hibdon has learned to keep records and make solid re-

placement animal decisions, and to understand different facets of the livestock industry. He plans to obtain a degree in agribusiness after graduation as well as owning his own farm and livestock operation.

Cade's parents are Darren and Julie Hibdon. His advisors are Aaron Cubit and Nathaniel McGee.

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Page 10

Grass & Grain, July 5, 2016

Harvest ahead of schedule, fall crops progressing

For the week ending June 26, 2016, temperatures were six to eight degrees above normal across most of the state, according to the USDA's National Agricultural Statistics Service. Rainfall amounts of one inch or more were reported in southern and central counties, with lesser amounts in the northeast and northwest. There were 5.9 days suitable for field-work. Topsoil moisture rated 6 percent very short, 24 short, 65 adequate, and 5 surplus. Subsoil moisture rated 3 percent very short, 20 short, 75 adequate, and 2 surplus.

Field Crops Report: Winter wheat condition rated 1 percent very poor, 7 poor, 28 fair, 48 good, and 16 excellent. Winter wheat harvested was 58 percent, well ahead of 37 last year, and

ahead of the five-year average of 50.

Corn condition rated 2 percent very poor, 6 poor, 27 fair, 58 good, and 7 excellent. Corn silking was 17 percent, ahead of 11 last year and 12 average.

Soybean condition rated 2 percent very poor, 6 poor, 33 fair, 55 good, and 4 excellent. Soybeans planted was 95 percent, ahead of 82 last year, and near 92 average. Emerged was 84 percent, ahead of 65 last year, and near 61 average.

Sorghum condition rated 0 percent very poor, 2 poor, 24 fair, 71 good, and 3 excellent. Sorghum planted was 94 percent, ahead of 88 last year, and near 91 average.

Headed was 9 percent, ahead of 0 both last year and average.

Cotton condition rated 0 percent very poor, 1 poor, 30

fair, 65 good and 4 excellent. Cotton planted was 80 percent, behind 86 last year and 95 average. Squaring was 13 percent, ahead of 4 last year, and near 10 average.

Sunflowers planted was 82 percent, ahead of 76 last year, and near 80 average. Emerged was 63 percent, ahead of 53 last year, and near 61 average.

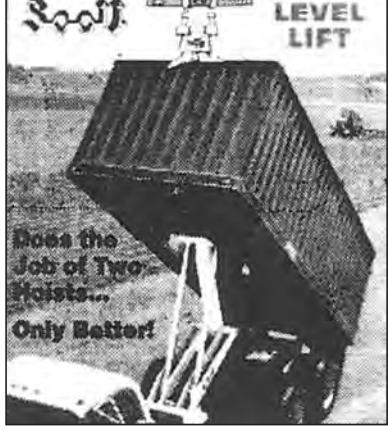
Alfalfa hay condition rated 1 percent very poor, 6 poor, 29 fair, 58 good, and 6 excellent. Alfalfa hay second cutting was 37 percent complete, ahead of 21 last year, but near 40 average.

Livestock, Pasture, and Range Report: Pasture and range conditions rated 0 percent very poor, 4 poor, 25 fair, 60 good, and 11 excellent.

Stock water supplies were 2 percent very short, 5 short, 90 adequate, and 3 surplus.

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Thursday, July 14th -

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URA Rodeo at 8:00 pm

Saturday, July 16th -

Livestock Sale at 4:00 pm

Saturday, July 16th -

Demolition Derby at 7:00 pm



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Carnival

Wednesday, Thursday, Friday & Saturday
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Extension Master Gardener volunteer meeting to be held August 1

Those interested in applying for the Extension Master Gardener Volunteer fall 2016 class are encouraged to attend an informational meeting on Monday, August 1, 2016, at 10:00 a.m. at the Sedgwick County Extension Center in 4-H Hall. Applications will be available at the event. The requirements and benefits of the program will be outlined and current Master Gardeners will share their experiences as volunteers. Master Gardener Volunteer Program trainees participate in an extensive training program through K-State Research & Extension. Volunteers for the Sedgwick County class must be residents of Sedgwick County, be available for daytime classes on Thursdays and be willing to volunteer for the Sedgwick County Extension Service within the community. Cost for the class is \$120.00 per person; need-based scholarships are available to defray part of the cost. Applications must be submitted or postmarked by August 5, 2016. The new training class of Extension Master Gardeners begins Thursday, September 22, 2016, and is held every Thursday through November 17, 2016, from 9:00 a.m. to 4:00 p.m. at the Extension Education Center (7001 W. 21st Street North). K-State Research & Extension in Sedgwick County is looking for volunteers who are able to devote 56 hours to classroom horticulture training combined with 48 hours of hands-on volunteer service while learning to become Extension Master Gardener volunteers. Extension Master Gardeners volunteer in the Sedgwick County community through the speakers' bureau, Extension Arboretum and Demonstration Gardens, youth gardening, phone hotline and plant clinic, hosting garden tours and more.

For more information contact Rebecca McMahon, Extension horticulture agent at (316) 660-0142 or visit: www.sedgwick.k-state.edu/gardening-lawn-care/master-gardener-volunteer-program/become-master-gardener.html.

Iowa State University vets find an easier way to collect diagnostic samples from pigs

Iowa State University veterinarians are refining a method of collecting diagnostic samples from swine that both pigs and producers are happy about - and all it requires is a little rope.

Jeff Zimmerman, a professor of veterinary diagnostic and production animal medicine, said taking individual blood samples from pigs to monitor infections imposes costs and time constraints on veterinarians and pork producers.

"The pigs aren't happy about collecting blood samples, and neither are the

people," Zimmerman said.

He and some of his ISU colleagues began their experiments to find an easier means of collecting samples by hanging ropes in pens of pigs. The pigs enthusiastically chewed on the rope, leaving an oral fluid sample in the process.

The researchers began the project in 2005 as part of their work on porcine reproductive and respiratory syndrome virus, one of the costliest diseases U.S. pork producers battle. Zimmerman said pigs instinctively chew on objects - including

ropes hanging in their pen - as a means of exploring their surroundings. But the researchers didn't know if the oral fluid samples left on the rope would allow them to track the infections they were interested in monitoring. As they refined the process, they learned that oral fluid samples can lead to diagnostic accuracy as good as - and usually better than - conventional surveillance techniques.

Zimmerman said oral fluid samples collected with rope can help veterinarians detect a wide variety of infections, including foot and mouth disease and classical swine fever. The technique is gaining wide acceptance among veterinarians and producers. The Iowa State University Veterinary Diagnostic Laboratory ran 10,268 oral fluid tests in 2010, but by 2015, that total jumped to 176,167. Producers in Europe, the Americas and Asia have also begun to collect oral fluid samples.

Zimmerman said testing oral samples saves producers money and avoids the difficulty of taking individual blood samples from pigs. He estimated the cost of testing for PRRS is between 3 to 12 cents per pig in the barn, depending on the kind of test used. By contrast, the cost of a PRRS virus outbreak in growing pigs can cost between \$7 and \$15 per pig.

The researchers have tested cotton, nylon and hemp ropes and found that cotton produces the best testing results. Growing pigs four weeks or older require no training for oral fluid collection, Zimmerman said. The rope proves irresistible to them due to their natural curiosity. For younger pigs, Zimmerman suggested that a rope be left on the floor of their pen for 30 minutes to allow the piglets to grow accustomed to it in a nonthreatening way before trying to collect samples.

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Kansas Cattlemen tour HydraBed facility during regional meeting

Members of the Kansas Cattlemen's Association (KCA) met at the HydraBed by Triple C, Inc. facilities in Sabetha for a guided plant tour on June 16, 2016. In addition to the tour, attendees took part in industry presentations and discussions that evening. The free and open to the public event included presentations by KCA, the Kansas Corporation Commission, and a free USA Beef BBQ dinner courtesy of the Triple C, Inc. staff.

The HydraBed facility was recently expanded to provide a smoother production cycle. Adding to the functionality is a new state-of-the-art painting bay and oven which provides a consistent and high-quality finish. The facility is capable of turning out a completed bale bed every one and a



KCA members recently toured Triple C, Inc. facilities in Sabetha.

Courtesy photo

half hours. In addition to producing the signature HydraBed truck beds, the facility also produces other products including the Hydra Feeder, Across the Bed Toolbox, Underbody Toolbox, Square Bale Flaker, and numerous other HydraBed accessories.

"HydraBed has been providing ranchers with bale beds and other quality products for over 30 years. The investments they have made into the new facility are testaments to their focus on producing a quality product, their commitment to the rural community of Sabetha, and their support of the independent cattlemen," stated Tyler Dupuy, KCA executive director.

Brent Scott, investigator from the Kansas Corporation Commission, provided a presentation covering

compliance with motor carrier equipment regulations. Although most agriculture-related machinery and equipment is exempt from the commercial carrier rules and regulations, equipment that is utilized as for-hire is not exempt. Working with inspectors to determine what it takes to be compliant is critical in preventing hefty fines and ensuring safety.

Proud sponsors of the meeting included HydraBed by Triple C, Inc., United Bank and Trust, Key Feeds, Heinen True Value Farm Supply, Midwest Crop Insurance, Livestock Nutrition Center, Stallbaumer Lumber and Hardware, Lang Diesel, Inc., Nemaha County Co-op, Holton Farm and Home, and Denison State Bank.

Rabobank Global Beef Quarterly Q2 2016: volatility challenges beef markets

The Rabobank global beef index ticked up in Q1 2016 after declining for much of 2015. However it shows signs of dropping again as softening prices in the U.S. and Canada battle strengthening prices in Australia and Brazil, according to the Rabobank Global Beef Quarterly Q2 2016.

"Volatility is a key theme across most markets at the moment," says Angus Gidley-Baird, Senior Animal Protein Analyst at Rabobank. "A range of factors are creating a degree of uncertainty, including the economy and exchange rates influencing Brazil, seasonal conditions impacting Australia, the economy impacting China, and market volatility impacting the U.S."

Brazil: continuing to increase exports

The low value of the real, high domestic prices and the slow economic conditions will continue to support increased Brazilian beef exports. Exports to China, which reopened in June 2015, totalled more than 70,000 tonnes from Jan-

uary to May, while exports to Saudi Arabia, another new market, are more than 11,000 tonnes in the first five months of 2016.

China: economy affecting consumption

China's slowing economy is affecting general beef consumption, but higher- and middle-income earners are supporting continued imports as they continue to seek quality beef products. Beef prices will remain stable in the coming quarter, as supply and demand are likely to be balanced.

Australia: cattle supplies remaining tight

Australian cattle supplies remain tight and prices strong. Australian cattle prices are expected to remain strong through Q3, given ongoing tight cattle supplies. Buoyed by recent rains, cattle prices have again risen to record levels in June.

U.S.: market disrupted by volatility

U.S. market volatility continues to be a market disrupter. The combination of marked week-to-week price volatility, and equal

volatility in the futures market, has made marketing decisions difficult to impossible.

Europe: calm in a sea of volatility

Europe is the most stable beef production region right

now, with prices strengthening slightly, supported by steady exports, in particular to Turkey, despite ample availability of beef and low prices of competitive proteins.



Taylor Nikkel, Maple Hill, won reserve champion Angus-based steer at the 2016 Kansas Junior Angus Association Preview Show, June 3-4 in Hutchinson.

Photo by Jeff Maf, American Angus Association



Kelsey Theis, Leavenworth, won champion Angus-based steer at the 2016 Kansas Junior Angus Association Preview Show, June 3-4 in Hutchinson.

Photo by Jeff Maf, American Angus Association

AUCTION

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HARVESTING EQUIP: '86 Case IH 1680 axial flow combine, 4925 hrs, Case 1020 25' flex header; '81 Gleaner L2 dsl combine, 2750 hrs; '76 Gleaner F, 17ft platform

PLANTING/TILLAGE: GP 30' SS gr drill, dry fert, Model 3S-3000: 2-Case IH 8x20 DD drills, liq fert, hitch; 2-Sunflower 23' flng disks, Model 1434; Wako 32' flex harrow; Blanchat 9x16-18 pull plow. Add'l tillage, planting, hay, misc parts. Major machinery sells at 10:30 am

Dennis & Sandy Pettigrew, Sellers

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Page 12

Grass & Grain, July 5, 2016

Compound could reduce ruminant methane emissions

A report published in the journal *Proceedings of the National Academy of Sciences* identifies a compound known as 3-nitrooxypropanol (3-NOP) that could reduce methane emissions in ruminant animals. The report also notes that 3-NOP could reduce the volume of feed energy currently being lost to methane emissions by converting that energy to growth. The researchers say use of 3-NOP could reduce cattle methane emissions by up to 30 percent.

To learn more, visit <http://tinyurl.com/3NOP-5-6-16>.

**GRASS
& GRAIN**

Dear Editor

The U.S. Department of Agriculture (USDA) Farm Service Agency (FSA) requires farmers and ranchers participating in our programs to submit an annual report on all cropland use on their farms. Crop insurance agents for providers approved by the USDA Risk Management Agency (RMA) also require these reports to ensure accuracy with your premiums and when you file claims.

Yet for years, farmers and ranchers have entered the same basic common information from their acreage reports at these two different places.

No longer. Now, farmers and ranchers can provide the common information from their acreage reports just once – either to FSA or to their crop insurance agent – and that common information will be securely and electronically shared with the other.

This new process is part of USDA's Acreage Crop Reporting Streamlining Initiative (ACRSI), an interagency collaboration to streamline

Letter to the Editor

the collection of common information to better serve our customers.

Over the past seven years, USDA implemented new ways to help farmers and ranchers conduct business with us more efficiently and effectively. Instead of farmers and ranchers juggling 54 acreage reporting dates for RMA that covered 122 crops, or 17 acreage reporting dates for FSA covering 273 crops, USDA established 15 common acreage reporting dates. These improvements, coupled with filing your common acreage report information in just one place, will not only save you time, but increase the accuracy in your crop reporting data.

More than 93 percent of all annual reported acres to FSA and RMA now are eligible for this common data reporting, and USDA is exploring adding more crops. Although you must still visit both offices to validate and sign their respective acreage reports, complete maps or provide program-specific information, the common data from your

first-filed acreage report will now be available to pre-populate and accelerate completion of the second report, eliminating redundant reporting. In the coming months and years, USDA will continue to build upon this framework. In fact, already we anticipate that some insurance providers will allow reporting to include precision agriculture geospatial data from a producer's planter along with regular crop and acreage information, and that third parties may begin designing electronic tools to assist with the reporting.

Since 2009, these are the types of targeted investments that USDA has made to help spur growth in the rural economy, make farming and ranching even better and help you achieve your personal version of the American dream. We hope you will explore participating this spring in our new streamlined acreage reporting initiative.

Respectfully submitted,
Adrian J. Polansky
Executive Director,
Kansas FSA

Area construction leader hits milestone: 102,000 buildings sold

Cleary Building Corp., the fastest-growing company in their industry, proudly announces the sale of its 102,000th building. The building was sold by Garden City building sales specialist Jeff DeWitt. The building was sold to the Seventh-Day Adventist Church in Dodge City. It will be used for church activities and functions.

With 102,000 buildings sold, Cleary Building Corp. has not lost sight of the customer service and quality craftsmanship that have been the threshold of their success. Each Cleary building is unique in its own right, customized to the client's needs with endless design possibilities and backed by the strongest warranties in the industry.

Local sales specialists are present from the beginning of the building project through the construction of each building. Every Cleary building is "Built With Pride Before The Shamrock Is Applied."

Cleary Building Corp. is a debt-free, family-owned company in business since 1978. The Corporate World Headquarters office and manufacturing plant are located in Verona, Wis. Additional manufacturing facilities are located in Grand Island, Neb. and Hazelton, Idaho. Cleary Building Corp. employs over 800 full-time employees throughout the United States. For more information about Cleary Building Corp., contact them at: (800) 373-5550 or visit ClearyBuilding.com.

NPPC not in favor of 'TTIP-lite'

While NPPC currently supports the deal, it is skeptical of progress being made on it based on the intransigence of the EU on various issues. NPPC is concerned about the many critical ideological rifts that remain on agriculture. While the EU is willing to eliminate tariffs on nearly all goods, for example, it announced publicly it is unwilling to eliminate them on beef, poultry and pork. It also is refusing to reconsider its stance on beef hormones and the feed additive ractopamine, which is used in beef and pork production.

NPPC wants in TTIP the same deal it has gotten in the 20 other free trade agreements the United States has concluded and in the TPP, which was recently finalized: elimination of tariff and non-tariff barriers on U.S. pork exports.

REYNOLDS AUCTION SERVICE ABILENE & CLAY CENTER RANDY REYNOLDS: 785.263.5627 landmanr@gmail.com

ESTATE AUCTION

SATURDAY, JULY 9 — 9:30 AM

AUCTION LOCATION: 106 Naroma Ct., ABILENE, KANSAS

VEHICLE (12 Noon), COLLECTABLE FURNITURE, COLLECTABLES, HOUSEHOLD ITEMS

See last week's Grass & Grain and For a complete listing & additional pictures go to kansasauctions.net

SELLER: DR. FRANK J. HOLTZ TRUST

Pinnacle Bank, Trustee

Dr. Holtz was a dentist & minister. He did lots of entertaining & traveling. Most items are high end. We will run 2 rings part of the day.

REYNOLDS AUCTION SERVICE ABILENE & CLAY CENTER RANDY REYNOLDS: 785.263.5627 landmanr@gmail.com

ESTATE AUCTION

SUNDAY, JULY 17 — 9:00 AM

1625 Stratford — LAWRENCE, KANSAS

2 blocks East of Iowa & Stratford! WATCH FOR SIGNS!

VEHICLE
1994 Ford Tempo GL Car, Auto, 2.3L, 2 door, One Owner with ONLY 29K, new tires.

John Van Koert Drexel "Profile" Mid-Century Modern Furniture

9 piece Dining Room Suite: 2 china cabinets, dining room table, 6 matching chairs; 4 piece Living Room Set: shelf, coffee table, large & small side tables; 7 piece Bedroom Set: bed, dresser, side tables, nightstand, chest drawers.

COLLECTIBLES, HOUSEHOLD, MISC.
J&P Coats "Spool Cotton" spool sewing cabinet; 1800s Wooden Spinning Wheel; Oak Secretary Bookcase (Remarkable Piece!); Oak High-Boy chest & dresser (both have mirrors); Oak Wish-Bone dresser; Vintage wicker loveseat; Oak Spindle Sewing Rocker; Oak dropleaf table; Maple round table; set 8 wooden vintage round chairs; Oak cane chairs; Hump Back trunks; US Navy trunks; Oak coat rack; Metal bed; Ethan Allen 5 piece bookshelves w/matching desk & dresser; leather chair with ottoman; 20th Century Baldwin Acrosonic Piano w/bench; 60+ Pieces of Gorham Rondo Pattern Sterling Silver Dinnerware; several other Sterling Dinnerware pieces; "Ad Astra" KS Capitol 22" Statue by Richard Bergen 95/100; Robert Green Watercolor on Paper "Landscape"; Judi Geer Kellas Watercolor on Paper "Floral Still Life"; other pictures/print; Oak mantle clock; Seth Thomas mantle clock; 5 gallon water crock; dough crock bowls. **Jayhawk Items:** brass paperweight, Sedan, KS paperweight, cookbooks, figurines; Lawrence items; BF Goodrich rubber tire ashtray; Pillsbury Doughboy cookie jar; cast-iron vintage truck; American Keystone Lawrence, KS wooden Model T or A; 1920s Mulberry Van Briggle rabbit & vase; LLADRO figurines. **Vintage Hummels:** Hasenvater Playmates, 63 Singing Lesson, 141 Appletree Girl, Dererste Einkauf Sister, 337 Cinderella; West Germany

AUCTION NOTE: Lenoir is a 60+ year resident of Lawrence & her Auction will contain many Vintage Collectibles as well as Name Brand Modern items! This is a truly remarkable auction! Plenty of shade! Be courteous to the neighbors when parking! Very large auction! Concessions by Happy Trails Chuckwagon

SELLER: LENOIR EKDAHL LIVING ESTATE

Please visit us online www.KansasAuctions.net/elston for pics!

Auctioneers: ELSTON AUCTIONS • 785-594-0505, 785-218-7851

"Serving Your Auction Needs Since 1994"

Recently, the National Pork Producers Council (NPPC) joined 36 other food and agriculture groups on a letter urging U.S. Trade Representative Michael Froman and U.S. Secretary of Agriculture Tom Vilsack to resolve outstanding European Union (EU) market access issues before concluding the Transatlantic Trade and Investment Partnership (TTIP) negotiations this year.

The groups asked the of-

ficials to push for elimination of tariff and non-tariff barriers on agriculture exports.

"If the issues our organizations have identified as serious barriers to our exports to the EU cannot be resolved satisfactorily before the end of the year, we urge you not to proceed with a "TTIP-lite" agreement, which, for the U.S. food and agricultural sector, would do much more harm than good," the letter stated.

The groups asked the of-

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ESTATE AUCTION

SATURDAY, JULY 9 — 9:00 AM

Guns & Vehicles sell at 10:00 am!

Directions: From East side of Marion, KS at E. Main St. & Eisenhower Dr., go East on KS-256 for 2 mi. to US-77-S, turn South & go 5 mi. to 140th St., then West on 140th St. for approx. 0.2 mi. to a long driveway on the North side of the road. Auction site is not visible from the county road. Watch for signs.

Auctioneers Note: Steve was a lifetime member of Marion County & for years he met people from all over the country as a hunting guide. He enjoyed teaching kids about hunting & fishing, was always willing to help someone out, & was super proud of his kids & grandkids. You will also notice that he was an avid collector of many things. Don't miss this opportunity to purchase some of the items that Steve had collected over a lifetime. This is not a full listing; it will be a large auction & we will run 2 rings throughout the day, so bring a friend to help bid!

Guns: (There will be 49 guns offered for sale.) Remington Wingmaster 870; Winchester model 100 243-WIN semi auto; J Stevens 22 LR lever action w/sling; Ruger 22 cal single six revolver w/box; Ruger 357 mag lever action w/sling; Browning Bar II Safari 270 semi auto w/ 3x-9x Redfield scope compensator. **Vehicles:** 1998 Ford Expedition; 1976 Penton Motorcycle Enduro, plus many more vehicles; Newmann Boat SN# 720670 w/Evinrude 70 outboard. **Ammo, Knives & Reloading Supplies:** WW2 Katana style Sword; WW2 Officers Style Sword; **Outdoor & Hunting Décor, Taxidermy Items:** Mountain Lion mount; bobcats; many more; White Tail shoulder Mounts; (14;10;13; & 10 pt.) Antler Racks; Cedar Log furniture; much more; **Antiques and Collectibles:** Oak Murphy bed w/ beveled mirror; oak secretary; Curved glass china cabinet; oak claw foot China cabinet; Quilt; Pictures and Prints; Crock; so much more; **Household & Appliances:** Enhanced Vision Magnifier; Refrigerator; Newer Haier Chest Freezer; Philips Flat Screen 32" TV; Much More; **Tools, Shop Items & Equipment:** Just a sampling of the items offered in this auction. View at GriffinRealEstateAuction.com; or call for a mailing.

ESTATE OF STEVE HETT
This is only a partial listing. See full listing @:
www.GriffinRealEstateAuction.com

Call for inspection or more information:

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Broker/Auctioneer
Cell: 620-343-0473

CHUCK MAGGARD
Sales/Auctioneer
Cell: 620-794-8824

305 Broadway
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In Office: Nancy Griffin, Heidi Maggard
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Kansas
REALESTATE AUCTION

UPCOMING AUCTION

628.7 ACRES

Rice Co. - 3 tracts, 318 ac. Cropland & Grass
Ellsworth Co. - 1 tract, 310.7 ac. Grassland

THURSDAY, JULY 14 — 2:00 PM
Lyons State Bank-Community Room, 104 E. Ave. North
LYONS, KANSAS

Property of THE FAMILY OF THE LATE HAROLD NICHOLS & MILDRED SHUMWAY

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Kansas
REALESTATE AUCTION

Farm Credit System leaders say 'keep crop insurance whole'

In the midst of an economic downturn all across farm country, two leaders in the Farm Credit System (FCS) are speaking out about the importance of crop insurance for farmers during these times.

In an interview with Agri-Pulse, new CEO and president of the Farm Credit Council, Todd Van Hoose said, "crop insurance is absolutely essential and... is probably the backbone of the risk management strategy of most farmers in America today."

While Scotty Elston, the Chief Credit Officer at AgTexas Farm Credit in Lubbock, Texas, recently wrote in a *Southwest Farm Press* editorial that crop insurance "can literally

make the difference between farming another year or losing so much a farmer must call it quits."

That's because farming is a capital-intensive business and many farmers borrow more in one year than most Americans borrow in a lifetime. Crop insurance provides security for both the farmer and the lender.

"From a lending perspective, crop insurance provides a guarantee of a minimum income for a lender to rely on to repay loans should a farmer lose a crop," stated Elston. "This insurance guarantee makes it much easier for producers to obtain the financing they need to farm."

Considering that the FCS holds nearly 41 percent of the

farm sector's total debt and has the largest share of farm real estate loans, according to a Congressional Research Services report, the role of crop insurance helps enable sound lending practices and ensures farmers have a dependable source of credit. All of these factors are crucial as producers struggle with depressed commodity prices, high input costs, and falling farmland values.

"The important message we can talk about is, keep crop insurance whole," said Van Hoose. "It is worth the investment of the federal government in helping farmers manage the risk."

Weather watcher alert: Kansas weather data system expands

They may look like something ET put together to phone home, but the surprisingly sturdy weather stations being installed around Kansas quietly detect and record precipitation, air temperature, soil temperature, relative humidity, wind direction and speed, and solar radiation.

The stations are part of Kansas Mesonet, an expanding network of weather stations that collect data for Kansas State University. New stations have been added in Kearny County (Lakin), Morton County (Richfield), Seward County, but near Satanta, which is in Haskell County, and

Sumner County, but near Viola, which is in Sedgwick County. These are in addition to 51 existing stations.

The data collected is available to the public online at <http://mesonet.k-state.edu/>. The information can be useful for science teachers, construction companies, farmers, gardeners,

and anyone who is curious about the weather in their location or across the state.

Kansas Mesonet is located within the K-State Department of Agronomy and is part of K-State Research and Extension. It is also part of the Weather Data Library and State Climate Office with automated data

extending back as far as 1985. Paper records also go back into the 1800s.

"Adding new weather stations helps us give Kansas citizens and others an ever more complete picture of weather, including trends, across the state," said Chip Redmond, K-State assistant scientist

and Kansas Mesonet manager. "We appreciate everyone in the communities who work with us to pursue funding, assist with logistics, host a station and help with maintaining them. It requires a unified effort to make these stations possible."

Bison producers help celebrate National Mammal designation

Private bison producers were well-represented recently as nearly 30 ranchers joined with Interior Secretary Sally Jewell, congressional leaders, conservationists, and tribal representatives at a special celebration at the Smithsonian Institution National Museum of the American Indian in Washington, D.C. to celebrate the bison's designation as America's National Mammal.

Three bison business leaders were among the speakers addressing the roughly 150 individuals who gathered to celebrate the enactment of the National Bison Legacy Act.

Roy Liedtke, president of the National Bison Association, said, "A combination of conservation leaders and individual ranchers pulled bison back from the brink of extinction in the late 1800s. We are pleased that ranch-

ers, conservationists and tribal leaders today are continuing to work together to restore bison on rangelands and pastures across the country."

Dick Gehring of Kansas represented the National Buffalo Foundation and several bison businesses sponsoring the special reception, and said, "We in the foundation are proud to be a part of the coalition to see that the animal we love was named as the national mammal." He also reported that the

foundation is sponsoring a traveling bison history exhibit that will be appearing at museums around the country.

Dr. David Hunter of Turner Enterprises, Inc., represented Ted Turner, owner of the world's largest bison herd, at the event. Hunter said, "He is proud of the fact that he helped restore the North American bison herds." He noted that Turner has helped introduce many consumers to bison meat through the

chain of Ted's Montana Grill that Turner launched with George McKerrow in 2002.

The celebration underscored the guiding principles that bison represent as Americans honor this national symbol: unity, resilience and healthy landscapes and communities. The event also highlighted

the diverse interests supporting bison, represented by the more than 60 organizations, tribes, conservation groups and businesses of the Vote Bison Coalition, led by the Inter Tribal Buffalo Council (ITBC), National Bison Association (NBA), and Wildlife Conservation Society (WCS).



Cody Brown, Dwight, exhibited the champion steer, at the recent Kansas Junior Hereford Show held in Abilene. Pictured with Brown is Judge Dustin Adherin, Garden City and the Kansas Hereford Queen Brianne Nelsen of Fredonia.



Kati Fehlman, Junction City, exhibited the Grand Champion Bull at the recent Kansas Junior Hereford Association state show in Abilene. With Fehlman is Judge Dustin Adherin, Garden City, and the 2016 Kansas Hereford Queen Brianne Nelsen, Fredonia.

AUCTION

SATURDAY, JULY 16 — 9:00 AM

Offering for sale at Public Auction, located at 540 S. Main, GALVA, KS

FURNITURE, LAMPS & PICTURES

Oak lighted china cabinet; Walnut china hutch; Oak Rockers; parlor tables; coffee table; desks; cushioned chair; Mickey Mouse headboard; Walnut tilt top pedestal table; wooden shelving; glass display cases; dresser base; marble top wash stand; painted dresser; child's rocker; peg board displays; numerous chairs; sofa; TV's; smoke stand; end tables; wicker; office chairs; wooden cubby display; metal shelving; file cabinets; 100 yr. old gold framed mirror; Gone With the Wind lamps; stain glass lamp shades; Tiffany lamp; Summit Hurricane lamps; crystal lamp; figurine lamps; oil lamps; numerous table lamps; floor lamp; swag lamps; mini lamps; mineral oil lamps; Victorian shades & lamps; TV lamps; fixtures; K.C. MO Country Club Plaza pictures, J.R. Hamil; Jan Hagara numbered pictures; oil painting; numerous old pictures; mirrors; school wall map.

ANTIQUE & COLLECTIBLE ITEMS

Roseville, Hull, Dryden & Haeger pottery; celluloid dresser set; Fenton; Shawnee; cast iron banks & items; numerous metal signs; Hummel items; Mickey Mouse items; dolls; jew-

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TERMS: Cash day of sale. Statements made day of sale take precedence over advertised statements.

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UPCOMING WEIGAND LAND AUCTIONS

395.1 ± Acres HUNTING/RECREATIONAL Land

Saturday, July 9th @ 11:00 a.m.

Auction held on-site at 1140 Road 8, Cedar Vale, KS in Chautauqua County. Large WATERSHED with fishing dock, HUNTING CABIN, pasture meadows, multiple ponds, heavy timber, rock formations, creek, equipment sheds, a tornado shelter, TROPHY DEER, turkey & beautiful scenic views. Truly a once-in-a-lifetime opportunity to purchase some of the best recreational land in Kansas!

397.74 ± Acres HUNTING & CROPLAND

GREAT HUNTING - PRODUCTIVE CROPLAND - PONDS - HEAVY TIMBER - CREEK - PASTURE - QUALITY SOILS - DEER & TURKEY

Saturday, July 23rd @ 10:00 a.m.

Offered in Two Tracts! Located NW of Holton, KS in Nemaha County. Auction held at the American Legion Building, 334 2nd St., Wetmore, KS.
TRACT 1: 158.37 ± acres. Great hunting, cropland, timber, pasture, creek and pond.
TRACT 2: 239.37 ± acres. Pond, great hunting, heavy timber, pasture, hay meadows.

See Auction Flyers, Videos & Photos: www.WeigandAuctions.com

Call Auctioneers John Rupp, ALC, Jake Steven, or Terry Rupp, ALC at 316-262-6400.
J.P. Weigand & Sons Auctions
Wichita, Kansas

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Page 14

Grass & Grain, July 5, 2016



Auction Sales Scheduled

check out the on-line schedule at www.grassandgrain.com

July 7, 8 & 9 — (7th: antiques, collectibles, household tools, mower, pickup, 2BR home; 8th: dishes, antique furniture, collectibles, farm toys, coins, stamps; 9th: Farm equipment & collectibles, 114 acres m/l farmland) held at Westphalia for Evelyn G. Brooks Estate. Auctioneers: Kurtz Auction & Realty Service.

July 9 — 1950 Crosley Fire Truck, 1951 Crosley Super Sport, lawn equipment, handicap scooter, appliances, furniture, costume jewelry, oak wall phone, salt & pepper shakers, household, coins at Topeka for items of the late Dean Snapp. Auctioneers:

COMMERCIAL BUILDING & PERSONAL PROPERTY (Formerly Bergstrom's Heartland Plants)

AUCTION SATURDAY, JULY 9, 2016

REAL ESTATE TO SELL AT 10:00 A.M., PERSONAL PROPERTY TO FOLLOW.

307 NE 14th — ABILENE, KANSAS

A Stuppy Classic 2000 combination building/greenhouse built in 1996. The back half of the Stuppy Classic 2000 combo is a 30' x 72' (approx. 2232 sq ft) greenhouse seamlessly connected to the front by an 8" gutter. 20' x 40' freestanding Stuppy greenhouse.

Personal Property Items: Checkout counter, Shelving & Display Units, Misc.

COMMERCIAL BUILDING & PERSONAL PROPERTY (Formerly Bergstrom Greenhouse & Nursery)

SATURDAY, JULY 16, 2016

REAL ESTATE TO SELL AT 10:00 A.M., PERSONAL PROPERTY TO FOLLOW.

503 W Court St — CLAY CENTER, KANSAS

Real Estate: Office/Showroom; Campbell O'Brien Greenhouse; Stuppy Greenhouse; Stuppy Classic 2000; Double car garage with shop area; Two - Stuppy Greenhouses; Ground-to-ground Greenhouse; "Gutter" house dual greenhouse.

Personal Property Items: '82 Chevy Utilimaster box van, Schaben 50 Gal Industrial Sprayer (GX160 Honda 5.5 gas powered, 82" Boom), Nations 6'x15' Enclosed Trlr, 22" Self-Propelled Mower.

See 6-21-16 Grass & Grain for complete information or go to www.MidwestLandandHome.com



Mark Uhlk — Broker/Auctioneer 785-325-2740

Greg Askren, Listing Agent/Auctioneer 785-243-8775

www.MidwestLandandHome.com

DENNIS KING ESTATE as HIGH PERFORMANCE CAMS BUSINESS LIQUIDATION AUCTION

SATURDAY, JULY 9, 2016 — 10:00 AM

1018A W. Elm Street — SALINA, KANSAS

AUCTIONEER'S NOTE: Dennis was in business many years making performance engines and parts for car enthusiasts from hobbyist through NASCAR racing equipment. This is an auction for the estate to liquidate the equipment and new parts remaining of the shop's inventory along with his personal car and pickup.

INDUSTRIAL EQUIPMENT

Peterson Machine Tool camshaft grinder 3-phase * Storm Vulcan mod.75 camshaft grinder 230/460v 3-phase * 100's of camshaft grinding master plates * diamond cutting wheels including new in box * Storm Vulcan crank grinder & polisher * Sioux valve grinder w/bench * valve seat grinding equipment * Tradesman Pro 17" 16-speed floor drill press * Van Norman Machine Co. head seat grinder on bench * head grinder top side * (2) spring press testers * crank belt polisher * cam dialysis unit — inputs readings into computer * rocker arm cleaner/polisher * CG87 Kansas Instruments grinder * All Electric & Equipment rod heater * 20-ton press to remove piston pins * Winona Van Norman head surfacer * Kansas Instruments honing machine * Leeson boring bar w/block holding table * other boring bar * acid dip cleaner with 3 tanks * Peterson Machine Tool parts washer spray booth * Pe-

terson Machine Tool power washer in cabinet * industrial vertical air compressor w/Leeson 5hp 208/220v 1ph motor & 80 gallon tank * new barrel acid solvent * Goodson small parts tumbler * Carolina parts washer on solvent barrel * metal working lathe * Speedway Series horizontal band saw.

POWER TOOLS

Coleman Powermate direct drive vertical air compressor 5hp 110v 27 gallon * Powermate Quick Fix wire feed welder * Lincoln Electric SP-135 Plus welder * asstd bench grinders & wire wheels * belt & disk sanders * Shop Vac * 16-ton hydraulic pipe bender * Master 70,000 BTU space heater.

ENGINE HOISTS & STANDS

(2) Engine hoists * Ex-Cel engine stand * AC Delco 1000# engine stand * Central engine stand * other engine stands * freight cart w/hydraulic lift * freight dolly 3.5 ton floor jack.

TOOLBOXES & HAND TOOLS

Waterloo stacked top & bottom

box * Craftsman stacked top & bottom box * US General stacked top, mid, bottom box * screwdriver sets new in pkg * depth gauges sets * drawer of micrometers * drawer of mixed sockets * drawer of Craftsman screwdrivers * (3) welding arrow magnets * asstd large hand tools * wire brushes, dial indicators * mixed sockets on rails * installation tools * thread repair kits * punches & chisels * taps & dies.

CAR & PICKUP

1981 Camaro, no engine, being converted to race car * racing frame for car * Ford 9" rear end * tunnel rams * seats, tires, wheels, wheelie bars * Chevrolet S-10 pickup.

NEW PRODUCT

Several shelving units of new engine parts.

MISCELLANEOUS

Acer computer * other computer * Black & Decker mini frige * autographed racing pictures * gas & water cans * ladders * creeper * water cooler * folding saw horses * paints, oils, finishes

UPCOMING AUCTION

80 ACRES, FARM EQUIPMENT, GUNS, ANTIQUES, PERSONAL PROPERTY AUCTION

Saturday, July 23, 2016 at 9:00 am • 1141 Jeep Rd, Abilene, KS

View Full Sale Bill on our web site.

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For Latest Update & Pictures
go to website:

www.soldbywilson.com

Any announcement made the day of sale takes precedence over any printed matter.

Bergstrom's Heartland Plants. Auctioneers: Midwest Land & Home.

July 9 — 56 +/- acres tillable & high quality hunting ground held at Carbondale. Auctioneers: Crossroads Real Estate & Auction, LLC.

July 10 — Antique furniture, furniture, china, glassware, lamps, collectibles, old magazines, metal detector at Rossville for area collector & items of the late Irene Campbell. Auctioneers: Gannon Real Estate & Auctions.

July 10 — Collectible signs & advertising, antiques & misc. collectibles, 1954 Seeburg 100A juke box, 1928 Glasscock Coca-Cola cooler, household & misc. at Wakefield. Auctioneers: Temaat Auctions.

July 10 — Fishing & hunting items, advertising, furniture, quilts & collectibles at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

July 10 — Tractor, farm equipment, trucks, cars, tools & misc. at Russell for Elmer Maier. Auctioneers: Rohleder Auction & Realty.

July 10 — Well-Kept mobile home park on 3 acres +/-; 1988 Cadillac El Dorado, shed, scooter, furniture, household at Westmoreland for Rollin' Wheels, Vic & Doris Poteet. Auctioneers: Gannon Real Estate & Auctions.

July 11 — Tractors, truck, harvesting equipment, planting & tillage, lots of farm equipment at Wellington for Dennis & Sandy Pettigrew. Auctioneers: Theurer Auction/Realty.

July 11 — Stationary engines & tools, household & collectibles at Salina for Phyllis & Dale Hoover. Auctioneers: Thummel Real Estate & Auction, LLC.

July 11 — 2008 Corvette, pickup, machine shop equipment at Salina for Dennis King Estate. Auctioneers: Wilson Realty & Auction Service.

July 11 — Farm machinery, grain bins, livestock equip., lawn mower, automobiles, boat, tools, yard supplies, household, gun, bicycles, collectibles & misc. at Bremen for James & Phyllis Hoestje. Auctioneers: Donald Prell Realty & Auction.

July 11 — 395.1 m/l acres Chautauqua County hunting & recreational land held at Cedar Vale. Auctioneers: JP Weigand & Sons, Inc.

July 11 — Commercial building & personal property at Abilene for formerly

neous, collectibles at Osage City for Trey & Jane Williams' Smith. Auctioneers: Wischropp Auctions.

July 14 — 628.7 acres - 3 tracts, 318 ac. Rice County cropland & grass; 1 tract, 310.7 ac. Ellsworth County grassland held at Lyons for property of the family of the late Harold Nichols & Mildred Shumway. Auctioneers: Griffin Real Estate & Auction Service, LC.

July 15 & 16 (7-15): Butler County land & ranch dispersal; 7-16: farm equipment dispersal at Augusta for Larry & Judy Jackson. Auctioneers: Chuck Korte Real Estate & Auction Service, Inc.

July 16 — Tractor, farm equipment, trucks, cars, tools & misc. at Russell for Elmer Maier. Auctioneers: Rohleder Auction & Realty.

July 16 — Well-Kept mobile home park on 3 acres +/-; 1988 Cadillac El Dorado, shed, scooter, furniture, household at Westmoreland for Rollin' Wheels, Vic & Doris Poteet. Auctioneers: Gannon Real Estate & Auctions.

July 16 — Antiques, unique farm-related antiques, collectibles & more at Chapman for Dewain Krinhop. Auctioneers: Reynolds Auction Service.

July 16 — Furniture, lamps, pictures, antique & collectible items at Galva for Galva Emporium Mall, Jerry & Vicki Round. Auctioneers: Van Schmidt.

July 16 — Commercial building & personal property at Clay Center for formerly Bergstrom Greenhouse & Nursery. Auctioneers: Midwest Land & Home.

July 17 — Vehicle, John Van Koert Drexel "Profile" Mid-Century modern furniture, collectibles, Jayhawk items, vintage Hummels, crystal, household & misc. at Lawrence for Lenoir Ekdaahl Living Estate. Auctioneers: Elston Auctions.

July 17 — 320 acres McPherson County land, 2 lakes, pasture, timber, springs, rolling hills, walnut trees, wildlife, live water held at Lindsborg for Premier Grandchildren's Trust. Auctioneers: Sundgren Realty Inc., land brokers.

July 14 — 3BR 1BA home on corner lot at Topeka for Jewett Family Trust, Pearl "Peggy" Jewett. Auctioneers: Gannon Real Estate & Auctions.

July 14 — 159 +/- acres in Richfield. Auctioneers: McCurdy Auction, LLC.

July 14 — Quality furniture, household items, miscella-

neous, collectibles at Osage City for Trey & Jane Williams' Smith. Auctioneers: Wischropp Auctions.

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July 17 — Farm & Industrial consignments at Beatrice. Auctioneers: Rottinghaus Auction.

August 6 — Farm equipment held at Wilson for Robert & Joan Malir. Auctioneers: Omli & Associates, Inc.

August 6 — Two farms (120+ acres cropland; 21 acres cropland) held near Morrowville for the Estate of Robert Burton. Auctioneers: Raymond Bott Realty & Auction.

August 13 — Commercial building & personal property held at Greenleaf for formerly Bright Beginnings Daycare/Greenleaf School. Auctioneers: Midwest Land & Home, Mark Uhlk.

August 18 — Tractors, harvesting equipment, trucks, hay & livestock equipment, farm equipment, tanks, shop, antiques & misc. at Lyons for Kenny & Judy Malone. Auctioneers: Carr Auction & Real Estate, Inc.

LAND AUCTION

WEDNESDAY, JULY 13 — 6:00 PM

AUCTION LOCATION: J.O. Sundstrom Conference Center, 102 N Main Street, LINDSBORG KANSAS

PREMER GRANDCHILDREN'S TRUST, SELLER

320 ACRES MCPHERSON CO. KS LAND * 2 LAKES * PASTURE * TIMBER * SPRINGS * ROLLING HILLS * 100s OF WALNUT TREES * ABUNDANT WILDLIFE * LIVE WATER

LAND LOCATION: From HWY I-35 near Lindsborg, East on Smokey Valley Rd 8 1/2 miles to 25th Ave., North 2 miles to Wells Fargo Rd, West 1 mile to the property.

WWW.SUNDGREN.COM

SUNDGREN REALTY INC. * LAND BROKERS

JOE SUNDGREN, BROKER 316-377-7112

JEREMY SUNDGREN 316-377-0013

AUCTION MONDAY, JULY 11 — 4:00 PM

Auction will be at 1314 Funston, SALINA, KANSAS

STATIONARY ENGINES & TOOLS

Engines inc.: 4 hp. Cushman Cub (74942); 3 hp JD (326549); Fairbanks Z style D; 4 Maytag engines single & double; Miller Matic 35 wire welder; Lincoln 220 welder; Snap-on stack tool box; Atlas jig saw;

KFB Masters program offers inside look at farming

How does that juicy steak make it to my grocery store? What about that fluffy flour I use for my summer desserts? Learn the answer to these questions and more when you participate in Kansas Farm Bureau's Masters program.

The program, now in its 18th year, offers an up-close and personal look at life on Kansas farms with six educational capsules. Participants will learn about the fundamentals of this ever-changing industry while traveling around the Wheat State.

The experience is open to anyone with an interest in learning more about agriculture, says Charlie Sargent, director of the program.

"We welcome applications from anyone. It could

be a teacher, a preacher, a banker, a reporter or anybody, yes even a farmer or rancher," says Sargent. "All of us can learn and share

our insights with others."

For more information, call Charlie at (785) 587-6112, email sargent@kfb.org or find the online

application at www.kfb.org/Get-Involved/The-Masters. The application deadline is mid-July.

Be on the lookout for grey leaf spot in corn

Corn development is rapidly progressing in the district. And so has the development of the disease, grey leaf spot, in the state. Frequent rains in May and early June allowed gray leaf spot to get off to a quick start, similar to last year. This is a fairly common disease corn growers deal with and it is one to not ignore. Last year, statewide yield losses to gray leaf spot were estimated to be 3%. This calculates to a loss of 17 million bushels or about 4.5 bushels for every acre of corn grown in the state. It is critical to understand your variety susceptibility and make the most efficient fungicide application, if necessary.

Corn will soon arrive at the critical juncture for making fungicide application decisions for gray leaf spot management. The single best time to apply a fungicide to corn for gray leaf spot control is from VT to R1. If a fungicide was applied earlier, near V7 - V8, it did not hold up against late season pressure. Those who choose to put a fungicide down with the last herbicide treatment will most likely have to apply again at VT - R1 if they later find gray leaf spot pressure. Begin scouting for gray leaf spot in corn about two weeks before expected tassel emergence. Gray leaf spot is characterized by rectangular lesions that are 1-2" in length and cover the entire area between the leaf veins. Early lesions are small, necrotic spots with yellow halos that gradually expand to full-sized lesions.

To determine if your field is at risk for gray leaf spot, consider the following:

- Susceptibility level of corn hybrid. Seed companies typically provide information on the susceptibility of their hybrids to gray leaf spot in their catalogs. In general, hybrids that are more susceptible to fungal foliar diseases will have a greater response to a foliar fungicide.

- Previous crop. Because gray leaf spot survives in corn residue, the risk of disease increases when corn is planted back into a field that was in corn the previous year.

- Weather. Rainy and/or humid weather generally is most favorable to gray leaf spot. In growing seasons when these conditions prevail, the risk for disease development increases.

- Field history. Some field locations may have a history of high foliar disease severity. Fields in river bottoms or low areas or surrounded by trees may be more prone to having gray leaf spot.

Treatment thresholds for

a susceptible hybrid is when the disease is found on the third leaf below the ear or higher and on 50 percent of the plants. For intermediate hybrids, treat if disease symptoms are present on the third leaf below the ear or higher and on 50 percent of the plants examined, if the field is in an area with a history of foliar disease problems, if the previous crop was corn, if there is 35 percent or more surface residue, and if the weather is warm and humid. If you have a resistant hybrid, fungicide applications generally are not recommended.

If you have further questions as you scout your corn fields, please feel free to contact the River Valley Extension Office.



COIN AUCTION

SATURDAY, JULY 9 — 10:00 AM
American Legion Post 14, 3408 W. 6th Street
LAWRENCE, KANSAS 66049

325 Lots – 50 Gold Coins and Over 200 Silver Dollars,
Most are MS-Quality w/Over 100 Graded.
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50+ Gold Coins, incl. 5 \$20 St. Gaudens PCGS MS-61 and MS-65, 5 \$10 Liberty Head Gold Pieces, Rare 1868 Fractional California Gold Piece PCGS MS-66, Rare 1857/0 Horseman \$10 California Gold Rush Commemorative PCGS Deep Cameo Proof, \$50 American Buffalo MS-69, plus \$5, \$2 1/2 and \$1 Slabbed and MS-Quality Gold Coins; Over 200 Morgan Dollars, Most are MS-Quality, 86 Morgans are Graded, 1884-CC GSA, and 2 Rolls of Morgans; 20 Peace Dollars; 2 Rolls of 2005 Silver Eagles; MS-66 Walking Liberty Half Dollars; Jackie Robinson Silver Rounds and Other Silver; Several Mint Sets; and Much More.

RICHARD FOLKS ESTATE

D & L Auctions • Lawrence, Kansas • 785-766-5630
Auctioneers: Doug Riat

Slow holiday week for U.S. pork, beef exports

U.S. pork exports for the week of May 27-June 2 (which included the Memorial Day holiday) totaled 17,000 metric tons (mt), down 23 percent from the previous week and from the previous four-week average. Exports increased to Colombia (440 mt, +3 percent), but decreased to all other top destinations including Mexico (5,080 mt, -25 percent), Japan (3,130 mt, -23 percent), China (3,010 mt, -32 percent), South Korea (1,510 mt, -19 percent), Canada (1,230 mt, -5 percent), Australia (850 mt, -19 percent) and Hong Kong (710 mt, -20 percent).

Pork net sales were 16,700 mt, down 24 percent from the previous week but 8 percent above the previous four-week average. Increased sales to China (7,100 mt, +21 percent) and the second week in a row of higher sales following four slow weeks), Japan (3,190 mt, +7 percent), Hong Kong (2,370 mt, +42 percent), Canada (1,330 mt, +50 percent) and Colombia (210 mt, +2 percent) more than offset slower sales to Mexico (1,540 mt, -68 percent), Korea (240 mt, -79 percent) and Australia (130 mt, -77 percent).

U.S. beef exports totaled 12,300 mt, down 6 percent from the previous week and from the previous four-week average. Exports increased to Taiwan (920 mt, +25 percent), but decreased to other primary destinations including Japan (4,420 mt, -5 percent), Korea (2,620 mt, -10 percent), Mexico (1,490 mt, -17 percent), Canada (1,240 mt, -7 percent) and Hong Kong (960 mt, -14 percent).

Beef net sales were 12,600 mt, up 25 percent from the previous week but 5 percent below the previous four-week average. Increased sales to Japan (5,310 mt, +41 percent), Canada (1,670 mt, +83 percent) and Mexico (1,330 mt, +16 percent) were outweighed by slower sales to Korea (2,780 mt, -32 percent), Hong Kong (550 mt, -64 percent) and Taiwan (510 mt, -57 percent).

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- Follow the email link and You are Ready to BID & BUY!



If you have any concerns or trouble registering, please call Grass & Grain 785-539-7558 for assistance!

AUCTION

SATURDAY, JULY 9 — 9:30 AM

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

FARM TOYS, DOLLS & COLLECTIBLES

100's of farm toys inc.: Case 1200 4x4 on plaque special edition (#3 & #13); large collection of 1/16 tractors many IHC & Case; large collection pewter all in boxes; 1/43 series ZJD001-ZLD071; large collection of tractors; Mr. & Mrs Santa Clause; ornaments; matched set Case buckles "LA-830"; match set Farmall buckles "M-F20" Pewter Nashville Limited Edition; brass Nashville Edition; Gold Plated Nashville Limited Edition; many other buckles; Scale Models: 1915 Case steam engine; 1914 IH 8-16 Mogul; 1912 IH steam engine; 1916 IH 10-20 Mogul; 12-25 Mogul; Case 20-40; McCormick 10-20; 1916 Case gas tractor; Case steam engine w/canopy; 1919 Case 15-27; 190 International 8-16; 1923 McCormick Deering 15-30; Case buckboard wagon; IH buckboard wagon; painted signs & memo-

rabilia; 19' x 15' Eagle plaque's painted & brass; 150 anniversary commemorative brass eagle; many motor truck banks special editions w/serial numbers; many airplane banks; 1/28 scale McCormick threshers; 1/32 scale Case steam engines special edition 1/chrome, 1/brass; 1/8 scale Farmall M w/fenders; 1/16 F-10 farmhand (John Deere, Allis, Oliver, Massey); Cockshutt museum sets: (1987 #2, 1989 #4, 1990 #5); New Holland TR96 special edition combine; Case IH quad tract signature series tractor; many special edition series NIB; Tonka & Structo trucks; many bags marbles NIB; trains; Case patches; IHC tractor & implement manuals; 1957 IHC self washer cream separator; separator parts; Harley motorcycle toys; M & M toys; Large collection of Barbie dolls; many 1966; large collection of other Barbie dolls & collectables; Barbie Coke; many other dolls; doll

NOTE: This is a very large collection. Dwight was a IH dealer and collected toys for many years. Bonnie has a very large collection of dolls and kitchen items. We may run 2 auctions part of the day with farm tractors & dolls. Check our website for pictures at www.thummelauction.com.

DWIGHT & BONNIE DONLEY

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

AUCTION

SUNDAY, JULY 10 — 10:00 AM

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

Fishing inc.: 50 reels (Pflueger, South Bend, Shakespeare, Meisselbach, Heddon, Penn, Garcia, Airex, H & I, Eagle claw, Ocean City, other); 200+ lures (Heddon, South Bend, Pflueger, Creek Club, Bomber, Bobbie Bair, Paw Paw, other); fly rods (bamboo, Winchester missing tip, Pflueger, Heddon, South Bend, Shakespeare, Phillipson, other); rods (Bristol metal telescoping, graphite, wood, ocean, mt tubes, covers, boxes); minnow buckets; dip nets; wooden creels; fishing books; 12 tackle boxes; assortment line bobbers, hooks, jigs, rubber worms, other; Champion outboard motor 1 1/2 hp; older trolling motor; **Hunting** inc.: vintage wood ammo boxes Winchester & other; Redding powder & bullet scale w/box; Winchester hatchet; decoys papier mache & wooden; 2 BB guns; 70+ knives (Columbia River nib, Remington, Spyderco, other); belt buckles inc.; 35 Hesston 1975 up; **Advertising** inc.: Timken Roller Bearing tin sing; thermometers (John Bloom, Red Cloud, E P

sortment Disney games; 11 Argo 40's tin litho cars; Blue Bonnett Sue doll; 1940 Shirley Temple books; Kellogg wall telephone; picnic basket; china tea cups; cast iron lion & cat banks; child popcorn popper; Kodak movie projector; Brownie camera; lantern; table lamps; auto oil lamp; boat signal lantern; Griswold cast iron pot; tennis racket; 4 gal Red Wing crocks; crock jugs & bowls; wooden golf clubs; White Mountain ice cream freezer; song book rack; leather leggings; assortment kitchen items (dishes, egg beaters, cookie cutters, other items); valentines; ice tongs; perfume bottles; dresser jars; Westinghouse fan; Singer sewing machine base & top; comic books (Dick Tracy, Little Lulu, Western, Black Hawk, other); Hallmark mini ornaments & display; assortment of glass inc.: cake plates, bowls, other; 5 cent peanut machine; scales; service station water can; hat boxes; VHS tapes Disney, military; hand tools; Nordic Track exercise machine; shop vac.

Note: This is a private collection, the owners are moving out of the area. Check our web site for pictures at www.thummelauction.com.

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

Page 16

Grass & Grain, July 5, 2016



BAXTER BLACK

ON THE EDGE OF COMMON SENSE

21st Century Citizen Soldiers

The term "citizen soldier" applies to an army composed of ordinary citizens rather than professional soldiers, like Vietnam War enlistees and draftees that served their two years and were released to go back to their previous life. It also applies to the National Guard.

There is another group of citizens that I think deserves a similar recognition: the many thousands of citizens who work for the private contractors in the Mideast fighting the War on Terror. Granted, they get paid more but they receive no medals for bravery, not

much recognition for their service, no veteran's benefits, yet they are indispensable to any victory we might achieve.

The reason they are needed is because America's armed forces have shrunk to their smallest number in modern history. Less than 1% of our population volunteers to serve. In our small church, in our small town, we always seem to have a handful of young men working 'overseas' for private contractors. Some have a military background and some don't.

The most prominent description of the service of-

fered by private contractors is "providing security."

Which, of course, is what military soldiers do. These unsung citizen soldiers are used by our government to fill the 'soldier gap.' Their contributions range from combat in the field, transport, construction, high technology, personnel, command and control and training U.S. and allied military soldiers.

At this stage of the War on Terror, the use of UAVs (Unmanned Aerial Vehicles, drones to us civilians) has become critical. Young men from my little town, my little church, sign up with the private contractors, go to training school and then ship off to the battlefields of Afghanistan or Iraq. Back home we recognize them for their service. We pray for them. We help their wives and children to endure. And we wait.

Once "in country," many are spread out into UAV compounds, bases and facil-

ties like forts in the old west. The UAV program is saving uncountable lives. Its impact is enormous. The presence of our citizen soldiers in the War on Terror has become essential and, under the circumstances, irreplaceable. And in spite of dwindling enlistment, fuzzy policies and distractions like Iran and illegal aliens, America remains the strongest force for good in the world. The War on Terror since 9-11 has sapped our country. Election after election, conference after conference, plan after plan, bad guy after bad guy, bomb after bomb, we continue to defend ourselves from a group of people who hate us because of our religion, our success and our freedom. Not a single politician, military general or news commentator has the right to throw stones at those who are trying to deal with the radical Islamic threat. Talk is cheap; ask anyone in the bunkers of

Afghanistan.

That's what this courageous group of 21st century citizen soldiers are doing. They are manning the drones that are saving inestimatable lives, protecting our troops and sacrificing years of their own personal life for the safety of the rest of us.

This 4th of July it is time we as a nation should recognize these citizen soldiers, our neighbors, from our little towns, from our little churches, from our own families, who are guarding our shores. "O'er the ramparts we watch them so gallantly serving..." God Bless them all.



Wesley Denton, Blue Rapids, exhibited the Reserve Champion Steer, at the recent Kansas Junior Hereford Show held in Abilene. Pictured with Denton is Judge Dustin Adherin, Garden City, and the Kansas Hereford Queen Brianne Nelsen of Fredonia.

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WTAMU cattle cloning research results released

Scientists at West Texas A&M University (WTAMU) recently announced the results of a collaborative research project on cattle cloning and beef efficiency that has been in the works since 2012. Researchers successfully cloned a bull (Alpha) from the carcass of a steer that graded Prime, Yield Grade 1, as well as three heifers (Gammas 1, 2 and 3) from one heifer carcass that graded the same. According to the scientists, such a rating is only achieved by about 0.03 percent of all beef carcasses.

Scientists bred the clones through embryo transfer, and the 13 resulting offspring are the first bovine offspring ever produced by cattle from two cloned carcasses. The re-

sults of the study analyzed the carcasses of seven of these offspring that were harvested. All seven steers produced a yield grade of 1 or 2 and all had a quality grade of Choice or higher. Collectively compared to the industry average, the clones' offspring have 16 percent less trim fat, 9 percent more ribeye area and 45 percent more marbling. The next step for WTAMU is to compare the Alpha bull to top AI sires from the Angus, Simmental and Charolais breeds. They've exposed 1,300 cows and expect for the calves to be treated generically, right through the feedyard.

To read the full news release from WTAMU, visit <http://tinyurl.com/WTAMU-7-1-16>.



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Washington County FFA member wins John Deere Gator

Ryan Stewart of the Washington County FFA chapter won a drawing for a John Deere Gator 625iXUV at the 88th Kansas FFA State Convention, June 1-3, 2016, on the Kansas State University campus.

Stewart's name was drawn from ten finalists, which were randomly selected from a pool of members who completed one of the following requirements for entry: submitted an application for the American or state FFA Degree, participated in the Agriscience Fair, received an agri-entrepreneurship award, or were honored as a proficiency award winner or District Star winner.

Stewart was eligible for the drawing because he received the state proficiency award in Agricultural Communications. His advisor is John Kern. Stewart's SAE is with Mid Continent Farms and Stewart Family Farms, LLC. At first his duties were limited to general farm chores, but as his skills with technology and communications evolved, so did his job duties. He has taken photos which he uses to create sale catalogs, flyers and promotional ads. Stewart has also created educational crop videos. These videos were made possible with an Unmanned Aerial Vehicle (UAV) he purchased for crop scouting, which led to photos and videos being used in newspapers and on TV stations.

"I'm really excited to have the Gator," Stewart said. "I can use this in my SAE. I check fields frequently, so having it around for crop scouting is going to be a nice addition."

The drawing is sponsored by Kansas John Deere Dealers and the John Deere Agriculture and Turf Division.

"Having FFA in small hometowns across the state is one of the best leadership training programs there is," said Troy Leith, a CTI John Deere representative. "We're proud to keep supporting the program."

"With continued support from the John Deere Dealers in Kansas, we are able to recognize and reward the outstanding accomplishments of our members," said Kyler Langvardt, Kansas FFA reporter.

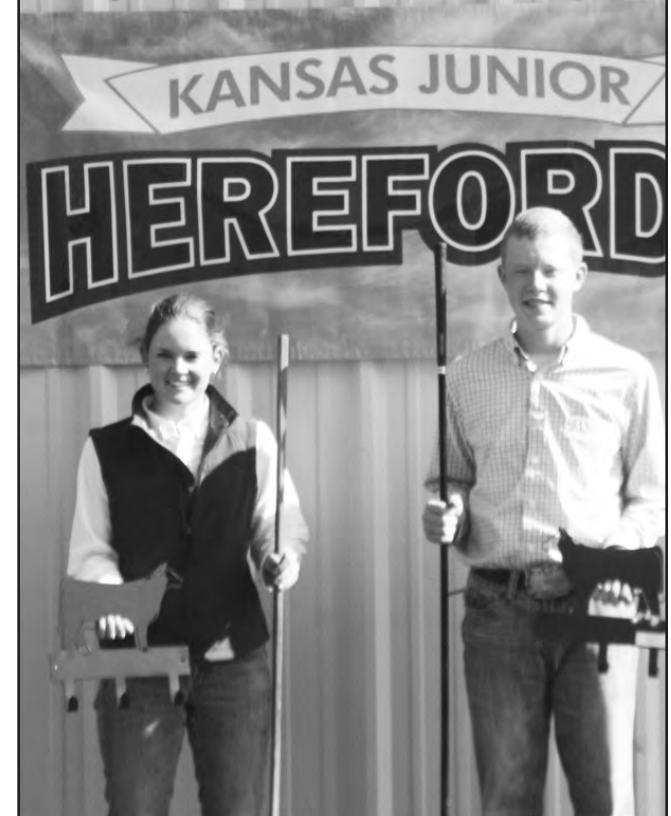


GENETRUST announces results for Spring Fling Online Embryo Auction

The second annual GENETRUST Spring Fling Embryo Auction was hosted online by BrangusAuctions.com and met with tremendous enthusiasm as breeders from across the world gathered online seeking embryos from some of the top females in the GENETRUST program. Donor dams who have produced and will continue to yield some of the breed leaders, including Coronado, Tribune, Trail Boss, Chairman and Main Event, made up the likes of this event and the quality of matings was met with great demand.

With great demand seen throughout, 79 embryos in 17 lots averaged \$724/embryo with the price ranging from \$500/embryo to the top of \$1500/embryo. These genetic packages sold to buyers in six states plus Australia, with a tremendous amount of bidding interest throughout the country and abroad.

Bill and Gail Davis will roll out their unrivaled hospitality November 4-5, 2016 at Chimney Rock Cattle Company for the next offering of GENETRUST genetics where 150 Brangus and Ultrablack bulls, 100 ELITE registered Brangus females and 300 commercial Brangus females will be offered for appraisal. Additionally, the GENETRUST crew will be back at the Naches River Ranch November 19, 2016 where 220 Brangus and Ultrablack bulls, 400 commercial Brangus females, and 100 Charolais bulls will be available. For more information on breed leading Brangus seedstock, the nation's foremost line-up of Brangus A.I. sires or private treaty offerings visit www.genetrustbrangus.com.



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CONSIGNMENTS FOR JULY 8:

159 Choice Reputation blk strs & hfrs, 1 round shots, no implants, 600-800 lbs.
49 Angus & SimAngus strs & hfrs, all shots, weaned, 450-700 lbs.
45 Choice Reputation Angus strs, all preweaning shots, 650-750 lbs.
43 blk steers & heifers, 1 complete rd shots, 350-500 lbs.
9 black bulls & heifers, weaned, 500-600 lbs.

CONSIGNMENTS FOR JULY 15:

35 blk & bwf steers, 2 complete rds shots, 550-700 lbs.
18 blk fall calving cows, SS, bred to LBW Oleen Angus bull to start calving Aug. 1
(1) 2 year old Angus heifer w/calves by side

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

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Cell: 785-633-4610

TOM TAUL
MANHATTAN
785-537-0036
Cell: 785-556-1422

JEFF BROOKS
BEATTIE
785-353-2263
Cell: 785-562-6807

BRYCE HECK
LINN
785-348-5448
Cell: 785-447-0456

DAN COATES
BALDWIN
785-418-4524

Page 18

Grass & Grain, July 5, 2016

Kansas Hay Market Report

Hay trade activity slow. Demand light for dairy alfalfa, alfalfa pellets, grass hay, and grinding alfalfa. Prices generally steady. The hot weather has continued, while the wheat harvest, alfalfa, and brome baling are rolling on.

Although most of Kansas is still drought-free, abnormally dry conditions, D0, have made their way back into the state. Southeastern Kansas and portions of Brown and Nemaha counties are showing abnormally dry conditions due to the pronounced short-term dryness and excessive temperatures in excess of 100 degrees. According to the U.S. Drought Monitor, a rapid descent into drought is imminent if rain does not materialize soon. The NASS Kansas Crop Progress and Condition report for the week ending June 26, 2016 states that the alfalfa hay condition rated 1 pct Very Poor, 6 pct Poor, 29 pct Fair, 58 pct Good and 6 pct Excellent. Alfalfa hay second cutting is 37 pct complete, ahead of last year's 21 pct. The winter wheat harvest is looking better than average with 58 pct complete well ahead of last years 37 pct. If you have hay for sale, pasture to rent or need hay and/or grazing, use the services of the Hay and Pasture Exchange: www.kfb.org/commodities/haypasture/index.html

Southwest Kansas

Dairy alfalfa, grinding alfalfa, alfalfa ground and delivered steady, movement slow. Alfalfa: Horse, small squares

Meriden Antique Engine and Threshers Association
Celebrating 40 years
8275 K-4 Highway, Meriden, KS 66312 • www.meridenthreshers.org

Featured Tractor: Allis-Chalmers
Featured Engine: Fairbanks Morse

40th Annual
Meriden Threshing Show
July 15, 16, 17 2016

- Daily Threshing
- Stationary hay baling
- Daily tractor parade
- Garden tractor pulls
- Live music Friday & Saturday nights
- Antique/Classic tractor pull on Saturday
- Kids Pedal Tractor Pull on Saturday

Contact Jess Noll (785) 633-9706

All shows feature the operating Flour Mill, Blacksmith Shop, Sawmill, and Big Engine. Eat at the Chuckwagon! We have on-site camping and modern restrooms.

AUCTION

SATURDAY, JULY 16 — 10:00 AM

878 Road 310, Allen, Ks. Allen is located on Highway 56 East of Council Grove and West of the Kansas Turnpike. From Allen, go south on the Allen Road or Road L 3 miles to Road 310 and West on 310 2 1/2 miles to auction site which has a long drive way. From Emporia, go North on Highway 99. At the Curve and intersection of 240, Highway 99 and Road L, go North on Road L 7 miles to Road 310 and West to auction site.

FARM, SHOP, LAWN & GARDEN EQUIPMENT

(NOTE: some of the equipment is new and unused, and some has been used only once or twice)

Kubota L2350 MFWD tractor, sn 55807, Canopy, 3 pt., PTO, 336 hours, with SMC 84Q loader with 60" bucket; 6' 3 pt. Blade; Loyal 23 bushel manure spreader, wheel drive (unused); County Line tow type sprayer, 12 volt, bar and wand (never used); DR Field and Brush mower (never used); DR 8.75Trimmers; Mower lift, NIB; Pull type lawn spreader (never used); Cub Cadet CS3310 Limb chipper/shredder, gas motor, never used; Stihl MM55 mini tiller; Calf creep feeder; 2 round bale feeders; 7-6 bar 10' gates; (2) 12' gates; Hog panels; 40' 5'-16' cattle panels; 2x4 5' woven wire; Used T posts; Round metal stock tank; Rolls of chicken wire; Husqvarna YTH2348 Lawn Tractor/Mower, 452 hours; Huskee supreme SLT 5499 lawn tractor; Ariens rear tine 8 hp tiller; Poulan and McCulloch chain saws; Sheep and Hog wire; Lawn trailer; Lawn aerator; New barbed wire unroller; 3 Corner hay/grain feeders (small); Goat stanchion for milking; 2 16' flatbed tandem axle trailers; NIB Lawn thatcher; 3 rolls new barbed wire; New electric fence

PUMP

New Cleo Blu submersible pump, controls and wiring.

WHEELCHAIR

Motorized wheelchair/scooter-excelent.

HOUSEHOLD & OTHER ITEMS

Electric smoker; New 1/2 and 1 gallon glass jars-20 each; New and used 1/2 pint, pint and quart canning jars (40-60 cases); Maytag washer (2007); 2 dining tables; Microwave; Gun cabinet and rack; Kirby Vacuum system, used twice; Dyson DC25 vacuum; Shelving and bookcases; Lots of dishes; Meat grinder; NIB 26 piece knife set; 100 VHS movies; 20-30 Jig Saw puzzles. MANY, MANY OTHER ITEMS

MARY FLOWERS, SELLER

TERMS: Cash or approved check day of auction. Inspection day of auction ONLY. Remove all items day of auction.

www.hancockauctionandreal estate.com

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620.340.5692

220.00-250.00, new crop first cutting, mid and large squares 135.00-145.00. Dairy, .75-.85/point RFV, Supreme 130.00-160.00, Premium 120.00-155.00, Good 105.00-145.00. Stock or Dry Cow alfalfa, old crop 80.00-100.00. An instance of new crop, mid squares, 140.00. Fair/Good grinding alfalfa, old crop, 70.00-85.00, 95.00-110.00 delivered locally. New crop grinding alfalfa, 75.00-85.00. An instance of new crop, first cutting, 65.00 edge of the field. Ground and delivered locally to feedlots and dairies, 100.00-120.00, mostly 100.00-105.00. The week of 6/19-6/25, 9,424T of grinding alfalfa and 575T of dairy alfalfa were delivered. Corn stalks, ground and delivered 80.00-85.00.

South Central Kansas

Dairy alfalfa, alfalfa pellets, grinding alfalfa, alfalfa ground and delivered steady, movement slow. Alfalfa: Dairy, .70-.85/point RFV, Supreme 130.00-155.00, Premium 120.00-155.00, Good 100.00-145.00. Stock cow alfalfa, 120.00-140.00. Fair/Good grinding alfalfa 60.00-75.00, 80.00-100.00 delivered locally, new crop grinding alfalfa 60.00-80.00, 50.00-70.00 edge of the field. Ground and delivered locally to feedlots 100.00-115.00, mostly 100.00-105.00. The week of 6/19-6/25, 4,277T of grinding alfalfa and 875T of dairy alfalfa were delivered. Alfalfa pellets: Sun Cured 15 pct protein 140.00-145.00, 17 pct protein 150.00-165.00, Dehydrated 17 pct 220.00-230.00. Grass hay: bluestem, mid squares none reported, large rounds none reported. Corn stalks, ground and delivered 55.00-65.00. Rye grass, large rounds 60.00-65.00.

Southeast Kansas

Alfalfa, brome, prairie hay steady, movement slow. Alfalfa: Horse or Goat, mid squares 250.00-265.00, small squares 265.00. Dairy and Stock Cow .80 to .95/point RFV. Good grinding alfalfa none reported. Ground and delivered, old crop, 80.00-85.00. Grass hay: bluestem, small squares 100.00-110.00. Good, mid and large squares 70.00-80.00, 85.00-90.00 delivered, large rounds 50.00-55.00. Brome: small squares 130.00-135.00. Good, mid and large squares, old crop 80.00-95.00, new crop 80.00-100.00, large rounds, new crop 60.00-70.00. Straw, mid squares 50.00-60.00. Grass Mulch, large rounds 40.00-50.00. Fescue, new crop rounds 20.00-

Protein in, ammonia out – cattle diet impacts ammonia emissions

Ammonia gas packs quite the smelly punch. In small doses, it's what makes smelling salts so effective. But high levels of ammonia can be a health hazard and a pollutant.

Dairy farms are one of the major sources of ammonia emissions. The U.S. Environmental Protection Agency estimated that dairy farms contributed more than 20% of the ammonia emitted from animal husbandry operations in 2015.

Now, a recent study has compiled and analyzed data from 25 previous studies. Researchers honed in on factors that influence how much ammonia dairy barns emit.

The goal was to figure out which factors influence ammonia emissions in dairy barns and to ultimately lower the amount of ammonia being released from dairy facilities, says Adeline Bougouin, lead author of the study. That's important because ammonia poses several dangers.

In the confined spaces of many farm buildings, high

levels of ammonia can be a threat to animals. Ammonia is also linked to the respiratory problems in humans. In the environment, ammonia can damage terrestrial and aquatic ecosystems.

"Our work is important because it provides key information to farmers and farm advisers about potential ways to lower ammonia emissions," says Bougouin. Bougouin was a researcher at Wageningen University in the Netherlands and is now working at the French National Institute for Agricultural Research.

But reducing the amount of ammonia being emitted from dairy farms is a complex endeavor. Farms, after all, are economic enterprises. A solution needs to fit with the bottom line.

"Farmers need concrete strategies that reduce the environmental impact of their farms but not their economic output," says Bougouin.

So, Bougouin and her colleagues looked at existing research.

These studies had cata-

30.00 delivered locally.

Northwest Kansas

Dairy alfalfa, grinding alfalfa steady, movement slow. Alfalfa: Horse/Goat, small squares 225.00-275.00 delivered locally. Dairy, Premium/Supreme .80-1.00/point RFV. Stock cow, fair/good 100.00-120.00. Good, large rounds 80.00-90.00. Fair, grinding alfalfa 65.00-85.00. Ground and delivered locally to feedlots and dairies 100.00-115.00.

North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa steady, movement slow. Alfalfa: Dairy .80-1.00/point RFV, Supreme 150.00-210.00. Premium 140.00-185.00, Good 120.00-170.00, small squares 200.00-210.00. Stock Cow, good 100.00-140.00. Fair/Good, grinding alfalfa 70.00-80.00, utility/fair, large rounds 55.00-60.00. Ground and delivered 100.00-120.00. Grass hay: bluestem, small squares 6.00/bale delivered locally, large squares 70.00-85.00, large rounds 60.00-70.00. Brome: Good, small squares 7.00/bale, 120.00-145.00/T, mid squares 100.00-120.00, large squares 110.00-120.00, good large rounds 25.00-50.00/bale, 60.00-75.00/T, fair 50.00-60.00. Straw, good, small squares 4.00/bale or 5.00/bale delivered, large square bales 60.00-80.00/T, and large rounds 70.00-85.00. CWF grass mulch 65.00 per large round bale.

***Prices are dollars per ton and FOB unless otherwise noted. Dairy alfalfa prices are for mid and large squares unless otherwise noted. Horse hay is in small squares unless otherwise noted. Prices are from the most recent sales.

*CWF Certified Weed Free

*RFV calculated using the Wis/Minn formula. **TDN calculated using the Western formula. Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%).

Guidelines are to be used with visual appearance and intent of sale (usage).

Source: Kansas Department of Agriculture - Manhattan, KS Kim Nettleton 785 564-6709.

Posted to the Internet: www.ams.usda.gov/mnreports/DC_GR310.txt

nure and urea in urine. And it did not affect milk yield. Reducing excess nitrogen in the diet could be an effective strategy to reduce ammonia emissions without affecting a farm's bottom line.

Other factors that influence the amount of ammonia being released from dairy barns include the type of flooring system used in it, the amount of dry matter in dairy cattle feed, and milk yield per cow.

The findings come with some caveats. "The emission rates we describe in the study may not represent whole-farm ammonia losses," says Bougouin. Emissions can also occur during manure storage or during composting and field application.

"We will need to study whole-farm ammonia losses," says Bougouin. "Then we can better understand how various systems in farms contribute to total ammonia emissions."

Read more about Bougouin's research in *Journal of Environmental Quality*. The USDA and University of California-Davis funded the research.

AUCTION CALENDAR

FRIDAY, JULY 15 — 6:00 PM

BUTLER COUNTY LAND & RANCH DISPERSAL

OPEN HOUSE: Sunday, July 10: 2-4 PM

Tract 1: 190 acres w/brick ranch home, livestock barns, machine sheds & corrals — all grass w/sev. ponds.

First time on the market in 70 yrs.

Tract 2: 40 acres hay meadow. Tract 3: 80 acres pasture.

Sold in separate tracts.

SATURDAY, JULY 16 — 9:00 AM

FARM DISPERSAL

Selling: 3 tractors - 1972 JD 4020 diesel, JD 25200 gas w/loader. Massey 65 diesel; '83 Chevy flatbed w/cake feeder; 12 Red Angus cows ages 3 & up, 10 calves could be registered, 3 yr. old ref Angus bull Dalebanks #370 born 9-12-13; semen tank: charged w/Angus semen; Lynn Enterprises tub & squeeze alley; WW working chute; Paul livestock scale; panels; bunks & min. feeders; Vermeer 504 silage 4x5 rd. baler; JD 336 wire tie baler & other hay & tillage equip.; 20x6 covered stock trailer & 20x8 JFW equip. trailer; 200 lg. rd. bales of 2015 Prairie Hay; Guns & Ammo inc.: 1884 Springfield 45-70 trap door rifle, Uberi mod 1873 cal 45, 2-matching Kentucky Squire rifles, Uberi Cattlemen 45 Colt rev., Paterson 36 cal revolver, Colt mod 1911A1 45 auto; sev. 1000 rds of 22 long rifle; 45-70, 30-06 & other ammo & more. Most items are shedded and in good cond.

Sale bill on website for legal, terms & conditions.

**BOTH AUCTIONS LOCATED 2 mi. S. of Augusta on Hwy. 77 to 120th, 4 mi. E. 3440 SW 120th — AUGUSTA, KS

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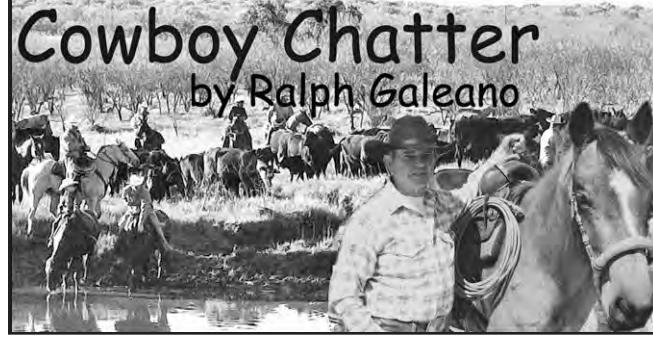
Saturday, JULY 9 • 1-3 PM

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St. Run Lavendar Orpingtons	\$7.00 ea.
St. Run Black Copper Marans	\$7.00 ea.
Dual Purpose St. Run Heavy Breeds	\$2.00 ea.
Fryer Roosters	\$1.25 ea.
Started Guinea Keets	\$5.50 ea.
Day old Guinea Keets	\$5.00 ea.
Fancy Breed Colored Turkeys	\$12.00 ea.
Ducklings	\$5.00 ea.
Goslings	\$12.00 ea.

For more info call Alan at 660-424-0408 or Miles at 660-464-1480

There are no minimums on how many you have to buy. However, baby chicken sales of less than 10 total chicks will be \$1.00 more per chick. Large sales of 50 or more chicks of same breed please call ahead. Otherwise there is no need to preorder, come and pick out what you want from the selection. The store will have all feed and supplies needed to raise poultry. Please note that not all types of baby poultry are available at each Chick Day! Payment terms on baby poultry are cash only. Please bring a box for babies.



Cow Horse Boogie

Have you ever watched the cow horse dance? You probably have but if you've missed that show, you're missing one of the finest athletic exhibitions on earth and maybe even outer-space since we don't know what's out there.

When a good horse is working cows—that is entertainment. And in my book it's more satisfying than watching some of that foolishness that's called entertainment taking place on the stage and screen.

A horse that you show which cow you want to cut from the herd or hold out of the herd will take over with no help from his rider once he determines that cow is the intended victim. There could be a hundred head in the herd and all the same color and looks but a good cow horse will keep that cow on his radar screen and never confuse him with one of the others in the herd. The Cow Horse Boogie Woogie is about to begin.

Pine Top Smith gained fame for the Boogie Woogie dance for humans in the 1920s but his lyrics describe the moves made by cow horses too. Let's take a look at Pine Top's lyrics so we can understand how the dance moves of the Boogie Woogie relate to people having fun and horses working for a living making the same moves. Here's how Pine Top's lyrics for people dancing relate to the horse's dance cutting cows. Before we get to the good part, it might interest you to know that Boogie Woogie and cutting horses evolved around the same time in 1870s Texas. Boogie-woogie is a musical genre that became popular during the late 1920s but developed in African-American communities in the 1870s.

Here's Pine Top Smith's lyrics from 1928:

"Now listen here all of you, this is my Pine Top Trouble"

"I want everybody to dance 'em just like I tell you" (the rider shows the horse what cow he wants to

work)

"And when I say Hold yourself everybody get ready to stop"

(the horse runs with the cow and gets ready to stop the critter)

"And when I've said Stop, don't move a peg"

(the horse stops the cow and holds it in place)

"And when I say Get it, everybody do a boogie woogie"

(the cow makes a run for it and the horse goes with the cow and stops it again-boogie woogie)

"Hold yourself now

Boogie woogie

Now that's what I'm talkin' bout'

Clarence "Pine Top" Smith recorded Pine Top's Boogie Woogie for Vocalion in Chicago on December 29, 1928. The world almost didn't get to hear Smith; he was killed by a stray bullet while playing at a dance less than three months later, on March 15th, 1929.

Smith wasn't the originator of Boogie Woogie. It originated in the black lumberjack camps of east Texas and spread across the south.

During the early years as Boogie Woogie music was being developed, the great trail herds were beginning to make their way out of Texas to points north. Cowboys working the herds or working on Texas ranches were using horses to move cattle. They had to separate animals for branding, doctoring and other needs.

Working cattle developed the horse's ability to learn the ways to stop and turn the animals to sort them out of a herd. It also required the horse to develop "cow sense", the ability to respond to the cow's body movements even before the cow moves. Horses learned to read the cow so they could figure out which way they were going to move in order to be there to stop them.

Once a cow has been cut from the herd, that's when the Cow Horse Boogie begins. The horse does his best to keep the cow from return-

ing to the herd. As the horse works the cow, you can see how the horse appears to dance back and forth in an effort to maintain control over the cow. Good cutting horses have a plethora or overabundance of qualities that help them do their job.

Heart, intelligence and balance are a few of those qualities. If the horse has heart, he will have a lot of desire and give more than one hundred percent to get the job done. Intelligence is high on the list and shows up fast when he is reading a cow preparing his body for the next move he sees coming. A slow witted horse won't have a chance against a smart cow. Physical balance shows up on the top cutting horses. Athletes have balanced bodies. Balanced horses can make a good fast turn, picking up their front end correctly and changing directions in a flash.

In the show ring the dance begins when the rider cuts a cow from the herd and lets the horse know "this is the one" when he drops the reins giving control to the horse. Now the horse goes to work. He's on his own and, except for maybe a few subtle cues from the rider, he will use his judgement on what moves to make to keep the cow from returning to the herd. It is a pleasure to watch.

The 2015 National Cutting Horse Futurity held at the Will Rogers Coliseum in Fort Worth was won by a red roan stallion named Stevie Rey Von. "Stevie," as the horse is known, scored a 225 to win the Futurity. His performance was flawless as he won the most prestigious cutting horse event in the world.

Ed Dufurrena, Stevie's rider, said, "He's extremely laid back, you kinda wonder if he's going to have spark or not until you see him in front of a cow. You walk up and separate a cow and he is a different individual. He knows when it's time to perform. He knows when it's time to excel. He's quick, he's electric and he's dynamic. When he's back here, you'd think, 'Ed, that's a puppy dog. There's no way that one's going to cut.'"

Steve Rey Von had all the right stuff to do the Cow Horse Boogie and win the greatest cutting horse event in the world.

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

USDA announces \$8.4 million to support a diverse next generation of farmers and ranchers

The U.S. Department of Agriculture (USDA) has announced the availability of \$8.4 million in competitive grants to support the work of partner organizations that provide training, outreach and technical assistance for socially disadvantaged, tribal and veteran farmers and ranchers. USDA's Outreach and Assistance for Socially Disadvantaged and Veteran Farmers and Ranchers Program, also known as the 2501 Program, is administered by the Office of Advocacy and Outreach (OAO).

"Diverse experiences, background and education are vital to a healthy agricultural sector that continues to meet the challenges of a changing world and the demands of markets at home and abroad," said Acting Deputy Agriculture Secretary Michael Scuse. "The 2501 Program is an important part of how USDA partners with land-grant universities, tribal colleges, tribes, nonprofits and other community-based organizations to grow the next generation of agricultural innovators and entrepreneurs that keep American agriculture the most productive anywhere."

Since 2010, more than \$74 million has been invested through the 2501 Program to leverage the work of more than 300 local partners. The 2014 Farm Bill reauthorized the program and expanded assistance to include military veterans.

Partner organizations provide a range of services and technical assistance based on local needs. Last fall, for example, 2501 funding was used to create the Socially Disadvantaged Farmers and Ranchers Policy Research Center at Alcorn State University, in Lorman, Miss. The Center will provide a national hub for analysis and development of policy recommenda-

tions to improve engagement and promote the interests of socially disadvantaged farmers and ranchers.

Proposals for these competitive grants must be received by July 29, 2016 at www.grants.gov. Details are available in the June 27, 2016 Federal Register Notice or by contacting USDA,



Cally Miller's Cow/Calf pair, SJP LKP 77X 743T Nicky 15B and her March heifer calf, were selected to be the Champion Pair at the recent Kansas Junior Hereford Show held in Abilene. Pictured with Miller of El Dorado is Judge Dustin Adherin, Garden City and the Kansas Hereford Queen Brienne Nelsen of Fredonia.

TRACTORS	
1989 Ford 7710	\$34,500
2014 Case Farmall 95C, ldr, 175hrs	\$59,500
2015 Case Maxxum 125	Call
Case Maxxum 115, ldr, 950hrs	Call
2013 Case Puma 170, 470hrs	\$143,000
2009 Case Steiger 335,1629hrs	\$175,000
2014 Case Maxxum 110, 292 hrs	\$74,000
2014 Case Farmall 125A,55hrs	\$59,500
2004 Case DX24E, ldr, 750hrs	\$10,500
1998 Case 8930, 4075hrs	\$86,000
2013 Case Magnum 180, 603hrs	\$145,000
2014 Case Magnum 190, 570hrs	\$145,000
2010 Case IH 7088	\$225,000
1995 Case IH 2188	\$59,500
2011 NH CR9060	\$190,000
2013 NH 98D	25,000
Case 3408	\$39,000
Case 2162 35' Draper	\$59,000

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MacDon FD70 35' Draper	\$56,500
MacDon FD75 35' Draper (like new)	\$67,500
TILLAGE	
Case 200 25' FC	\$29,500
Case 330 Turbo, 25', new blades	\$42,500
Case 490 20' Disk	\$4,500
NEW Case 335 28', 31' & 34'	
PLANTERS	
2012 Kinze 3660 16-30-15, No Till	\$110,000
Kinze 3600 16-30-15, No Till	\$63,000
2014 Kinze 3500 8-30-15 No Till	\$49,500
2008 Kinze 3500 8-30-15, No Till	\$39,000
1999 Kinze 3600 12-30-15 No Till	\$49,500
INDUSTRIAL	
Bobcat T870	\$65,000
Bobcat T750	Call
Bobcat E35i Mini Ex.	\$49,500
Bobcat S650 1368 hrs	\$35,500
Bobcat 435 Mini Ex.	\$39,500

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AUCTION

SATURDAY, JULY 9 — 9:30 AM

3306 NE FAIRVIEW DRIVE, TOPEKA, KANSAS

1950 Crosley Fire Truck; 1951 Crosley Super Sport; mini tractor puller with Crosley 4 cylinder with 3 transmissions & rear duals.
Ariens YT 1511 lawn tractor with mower deck & snow plow; pull type lawn spreader; B&S Elite 5500 portable generator (like new); Craftsman bench drill press; McCullough chain saw; chest-on-chest toolbox; Hitachi 10" cut-off saw; belt/disk sander; Craftsman weed whacker; small Ryobi tiller; leaf blower; shop vac; Minnkota trolling motor (used 3 hours); 6' fiber glass step ladder; router table; belt sander; 3 electric chain saws; bench grinder; folding work bench; metal shelves; clamps; extension cords; sprayer; extension ladder large vise; router; hardware; nails; organizers; grease gun; drawknife; tool boxes; creeper; levels; hand corn sheller; fishing poles & rack; 2 tackle boxes; life vest; gazing ball; bird bath with fountain; cast iron claw foot bathtub; 2 metal lawn chairs; wheelbarrow; pick-up toolbox; car top carrier; pet carrier.

Invacare electric handicap scooter-used only 2 hours-running & good!

Frigidaire Gallery side-by-side refrigerator; china cabinet; fancy buffet; entertainment center; primitive 2-door glass cabinet; large wood hutch; 2-welder; tires; fender; doors & hood for 1995-1999 Chevy truck; BBQ grill; ferret cage; snake tank; hedge trimmers; weedeater; toolbox; fishing poles; bikes; books; TV sand; Wii; Wii & Xbox games; variety miscellaneous items.

door credenza/cabinet; rocker; gold seat chair; long black dresser; 2-drawer Oak chest; metal desk; bookshelf; game table; 4 bar chairs; 5-drawer chest; jewelry armoire; Samsung flat screen TV; shelves; magazine rack; scanner; portable TV's; floor & table lamps; stool; high chair; various chairs; coffee table; TV trays; primitive dropleaf table; round top table; lots costume jewelry; bookcase; microwave cart; table magazine stand; bread machine; microwave; small kitchen appliances; silverware in case; Oak wall phone; Panasonic microwave; APPROXIMATELY 225 sets of salt & pepper shakers; figurines; candleholders; whatnots; silverplate; kitchen utensils; glasses; cups; bowls; McCoy vase; assorted stemware; flo-blue bowls; plates; large pitchers; pink glassware; Barbie dolls & accessories; toys; many VCR tapes; trays; cutlery; Tupperware; bakeware; pans; ice cream dippers; cookbooks; stoneware dishes; toothpick holders; Holiday decorations; Christmas tree; books; ceramic Christmas tree; luggage; what-not shelf; CD's; dolls; punch bowl; decanters; Mother Goose wall plaques; 2 baby dishes; snack set; wood bowls; chip n' dip set; covered cake stand; large platters; jewelry box;

COINS: 20 Morgan & Peace silver dollars; 14 silver ½ dollars 1936-1961; 60 Indian Head cents 1879-1908; 8 silver quarters 1894-1939; 40 silver dimes 1902-1963; 25 Kennedy halves proofs 1964-1988; 5-1909 VDB cents; 11 Jefferson nickels 1938-1962; 1985 & 2-1987 proof sets; 5 mint sets 1968-1980; 8-1966 & 5-1967 special mint sets; 10 State Quarter proofs 1999-2008; 493 Lincoln cents 1908-1979; 24 rolls & partial rolls Lincoln cents 1917-1982; 15 Buffalo Bill Cody metals; 64 wooden nickels; 49 tokens mostly tax; 40 miscellaneous metals & tokens; 1976 3pc proof set; 1868 3-cent nickel; 1849 seated dime; 1847 large cent; bag Lincoln cents 1918-1983; Indian Head cent book-27 coins; Buffalo nickel book-24 coins; 4 partial books-Lincoln cents; Jefferson nickel set (2 books); War nickel set-11 coins; 1946 & 1949 year sets; 1990 'Ike' proof dollar; bag of elongated cents; 2 BU rolls nickels 1958P & 1968P; 3 Bi-centennial medals.

ITEMS OF THE LATE DEAN SNEPP

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AUCTION

SATURDAY, JULY 16 — 10:00 AM

206 WEST STATE, WESTMORELAND, KANSAS

REAL ESTATE (SELLS APPROXIMATELY 10:30 AM)

MOBILE HOME PARK

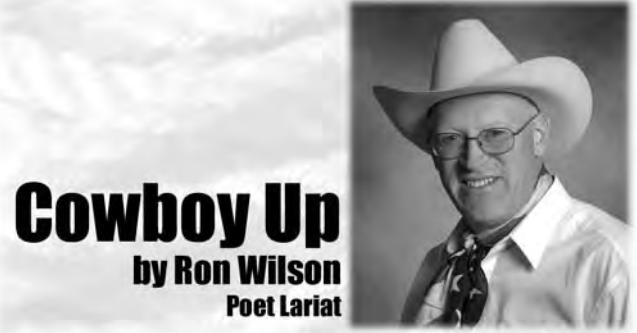
Attractive spacious, well-kept mobile home park on approximately 3 Acres. This park currently is set up for 8 units with room to expand. Many of the current tenants have been renting for years and hope to continue to stay. Excellent cash flow, low maintenance and great opportunity. There is also a garage/shop building on the property. Buyer to pay 10% down day of Auctions with balance on or before August 16, 2016. Cost of Title

Insurance to be divided equally between Buyer & Seller. All inspections to be made prior to Auction at Buyer's expense if requested. Taxes prorated to closing. **STATEMENTS MADE DAY OF AUCTION TAKES PRECEDENCE OVER ANY OTHER INFORMATION.** To view or additional information contact Vern Gannon Broker/Auctioneer or Gannon Real Estate and Auctions 785-770-0066.

pictures; Budweiser mugs & mirror; McDonald's glasses; Play Boy dart board; child's wagon & toys; electric heater; window AC units; weight bench; John Deere lawn mower (needs repair); small air compressor; shop lights; Miller

welder; tires; fender; doors & hood for 1995-1999 Chevy truck; BBQ grill; ferret cage; snake tank; hedge trimmers; weedeater; toolbox; fishing poles; bikes; books; TV sand; Wii; Wii & Xbox games; variety miscellaneous items.

ROLL



Here Come Da Judge

"It was kind of like buying a used car." That may sound like an unusual way to describe the purchase of

what became one man's favorite horse, but that was the phrase he used. A favorite horse is one of my fa-

ESTATE AUCTION

SATURDAY, JULY 16 — 10:00 AM

Prairie Chic, 9 S. Broadway St. — HERINGTON, KS 67449
AUCTIONEER'S NOTE: Greg was a native of Herington and a big fan of the KU Jayhawks and the Rock Island Railroad. He was an avid collector and attended auction and estate sales all over the country. Over the years he had gathered quite the array of items, this is one of the larger collections of Rock Island memorabilia we have had the privilege to sell. His motto was, "He who dies with the most toys, wins!"

Rose Bina is offering for auction the ESTATE of GREG TRAPP

RAILROAD ITEMS: (w/ markings lots of Rock Island, AT&SFY); Southern Pacific Lines Conductors Chair; Dietz Acme Inspector Lamp; Adlake Kero Lamp, Orange Globe; Dressel Lamp, Blue Globe; Torch Lamp; Model Train Engines (Lionel 231); Tyco 4301 HO Scale Engines; Shovels, Tin Snips, Misc Hammer Heads, Hatchet, W&B Special Wrenches, Pick Axe Heads, Grub Hoe Heads; Trestle Toy Bridge; Books; 1954 Rocket Calendar; Postcards, Stationary, Forms; Certificate of Examination; Ticket Books; Crock Jug; Rock Island Brass 2 1/2-gal Fire Extinguisher; Chicago Railroad Fair Guide Book 1948; CRI&PR-Office of Surgeon-in-Chief 1886 Letter; Rock Island Stock Certificates 50 & 100 Shares x25; RR Switch Locks w/ keys (Adlake, Union Pacific, UP-CS-21) x15; RR Lock Keys x25; Rock Island Silver Soldered Plate x2, Food Dome x2, Teapot x2; Rock Island Pins, Fobs, Brake-man X3 & Conductor X3 Hat Badges, Playing Cards, Uniform Buttons, Belt Buckles, Patches, Tokens, Conductors Hat w/ Badge, Coffee Mugs (Herington), Ash Trays, Glasses, Sign, etc); RR Badges (Special Agent, Police, Officer, Patrolman); Handlan Signal Lamp; Adlake No 250 Lantern, Red Globe; Adlake Lantern, clear "Safety First" Globe; Oil Can w/ Large Spout; Rock Island Prints (Depot by John Holbird, Caboose by DR Scott 186/225); More Misc.

RAILROAD ITEMS: (w/o markings): Cast Steam Engine Bell on Stand; Adlake Non-Sweating Lamp; 4-way Switch Stand Lantern; Master & Mobile Glass Oil Jars; 5 1/2"Glass Light Lens (red, blue, orange, clear); Aladdin Mod. C Wall Kerosene Lamp; Vintage B&W Photos; Spike Maul; Tie Tongs; RR Nails; Golden State Menu; Railway Torpedoes Wooden Crate; Whistle; Syracuse China; Brass Coach Lamp; More Misc.

CIGAR & TOBACCO, KU & CHIEFS COLLECTIBLES, ANTIQUE TOOLS, ANTIQUES & COLLECTIBLES, HOUSEHOLD & TOOLS

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vorite topics, as alert readers may recall. Writer Lyman Hafen has written that his favorite horse is the one he called Old Judge.

Judge was a big, brawny sorrel colt in 1959. The colt had been bred by a local judge, hence his name. He was not necessarily a pretty horse when he was young, and the judge decided to sell him. But a veteran horseman had bought and trained him and put him to work on the ranch when Lyman's dad considered buying him.

"It was kind of like buying a used car," Lyman wrote. "Some things you might overlook. Others can't be compromised under any condition. Dad must have been like a sixteen-year-old kid hesitating over the purchase of his first car: never mind it had no second gear, no registration, or that its front bumper was a little oversized."

What did that mean in terms of the horse? Well, Lyman wrote that Judge didn't have a second gear; that is, he didn't have a nice comfortable walk. His mother was unregistered so he had no papers, and his head was one or two sizes too big for the rest of him.

But like a teenager wanting that used car, Lyman's dad saw the potential in the horse. Judge was sound and

smart, and it appeared that he had the all-important intangible: Heart. Lyman's father made the purchase. He bought the horse.

It wasn't all smooth sailing. In his early years, Judge would shimmy through fences or run away from his rider. But he improved as he started to work. Lyman's dad took Lyman and Judge to the national intercollegiate rodeo finals. Lyman would rope on Judge all morning and go watch the finals in the afternoon.

"In the months that followed, I rode Judge five days a week," Lyman wrote. "Judge became my calf roping horse, heading horse, heeling horse, hazing horse, barrel racing, pole bending, keyhole, ring race, water race, flag race and boot race horse. He was even my 4-H show horse. I washed him, brushed him, roached him and trimmed him. I painted his hooves with black shoe polish for the halter class, snipped his whiskers with Mom's best sewing scissors, combed his tail with a rake, and even sanded down the corky chestnuts on the inside of his front legs." In the end, Judge did more and had more done to him than any horse Lyman knew. Judge packed deer, tracked wild cows, competed in 4-H shows, ran in races and carried rodeo queens. One

night Lyman was riding Judge near the Grand Canyon. "Old Judge carried me though the darkness that morning," Lyman wrote. "I wondered at his ability to pick his way down the trail, at the sheer strength and delicate grace all bound up in one being."

When they went after wild cattle, Judge cut loose in hot pursuit. "He ducked around rocks, slithered

through brush, and lunged over gullies. Beneath me I felt a mystic combination of power and wisdom, raw might funneled into precision. And when I thought I had asked everything possible of the horse, I slapped him across the rump with my rope and he gave it all to me again." Indeed, Judge had a lot of heart. When it came to buying a used car, Old Judge was no lemon.

Old Judge

By Ron Wilson, Poet Lariat

He was bred by a judge. That's how he got his name, But he had no registration or fancy papers for his fame. He was not the prettiest horse. His head was oversized, And he didn't have the nice smooth walk that many riders prized. But this horse was big and strong, seemed to give what he was asked, So Judge was bought and put to work, on the jobs which he was tasked. Through the years Judge did it all, ropin' calves 'n' running races, From 4-H shows to rodeo queens, with smiles upon their faces. Young Lyman grew up on this horse. He learned to rope and ride, Huntin' deer and herding cattle across the prairie far and wide. Old Judge was his favorite horse, so patient and cow-smart. Most of all, Judge was his favorite 'cause he had a lot of heart. Happy Trails!

www.ronscowboypoetry.com

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Brexit casts shadow on U.S. pork demand

Britain's decision to leave the European Union has raised many questions and concerns across the agricultural industry recently. This Brexit, coupled with weather woes, has already created challenges for both the grain and cattle markets.

But what does this decision mean for the pork industry?

Purdue economist Chris Hurt wrote in a weekly update that Brexit likely won't have a strong impact on U.S. pork exports to the EU. As he said, the U.S. exported just 0.2% of pork to EU28 countries last year.

However, Brexit has

strengthened the U.S. dollar making U.S. pork more expensive around the globe," Hurt wrote. "This will tend to increase prices for U.S. origin pork and reduce U.S. exports from what they would have been."

The U.S. dollar increased by about 3.5% relative to the Euro since the announcement. The 28 member countries of the EU have been the largest pork exporters in the world for the past two years.

Hurt explained, "This has given the 19 countries in the EU28 that use the Euro an immediate price advantage over U.S. pork. Said another way, Brexit gives our

biggest global pork competitor a sizable and immediate price advantage."

In addition, Brexit leaves the U.S.-EU trade deal - Transatlantic Trade and Investment Partnership (TTIP) - in the air; some have even called it a "final nail" in the coffin for TTIP.

The National Pork Producers Council joined 36 other food and agriculture groups in a letter urging U.S. Trade Representative Michael Froman and U.S. Secretary of Agriculture Tom Vilsack to resolve the outstanding EU market access prior to concluding TTIP negotiations later this year.

"If the issues our organizations have identified as serious barriers to our exports to the EU cannot be resolved satisfactorily before the end of the year, we urge you not to proceed with a "TTIP-lite" agreement, which, for the U.S. food and agricultural sector, would do much more harm than good," the letter stated.

AUCTION
SATURDAY, JULY 16 — 10:05 AM
17564 Stickney Rd. — RUSSELL, KS
TRACTOR, FARM EQUIPMENT, TRUCKS, CARS, TOOLS & MISC.
AUCTIONEER'S NOTE: Mr. Maier has leased his ground and is moving closer to family, therefore he is selling a full line of farm machinery. The equipment has been well maintained and is in good shape. Signs will be posted. LUNCH AVAILABLE.

SELLER: ELMER MAIER

Go to www.rohlederauction.com for complete listings & pictures

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REAL ESTATE AUCTION

THURSDAY, JULY 14, 2016 — 5:30 PM
1801 SW HUNTOON STREET, TOPEKA, KANSAS

This 3-bedroom home is located on a corner lot, it has a large living room, dining room, kitchen, one bath and a full unfinished basement. The home has been family owned/occupied many years and never used as a rental. There is a fireplace and wrap around porch. Great home for a handyman/painter.

Buyer to pay 10% down day of Auction with balance due on or before August 12, 2016. Taxes prorated to closing. Buyer and Seller to divide Cost of Title Insurance equally. All inspections

including lead base paint inspection to be completed prior to Auction at Buyer's expense if requested. Many possibilities for this home.

STATEMENTS MADE DAY OF AUCTION TAKES PRECEDENCE OVER ANY OTHER INFORMATION.

OPEN HOUSE Thursday, July 7, 2016 from 5-6:30PM or by appointment by contacting Vern Gannon Broker/Auctioneer 785-770-0066 or Gannon Real Estate and Auction 785-539-2316.

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AUCTION

SUNDAY, JULY 10 — 12:00 NOON

CITIZEN POTAWATOMI COMMUNITY BUILDING, 806 NISHNABE TRAIL, ROSSVILLE, KANSAS

Antique Walnut high back bed; dress form mannequin with 1800's dress, purse & accessories (very very nice); antique Walnut bed; small Oak glass front curio cabinet; Oak étagère type shelf; tables; corner shelf; Jenny Lynd bed; treadle sewing machine; bookshelves; Oak chest; gun cabinet; Oak mission style rocker; various chairs; Oak office chair; caned back & seat sewing rocker; dressing screen; shelves; Oak dresser; antique table; child's iron table & 2 chairs; wooden chicken crate with shelves; footlocker trunk; Oak dresser with mirror; Oak oval tale; 3-leg triangle chair; brass floor kerosene lamp; mounted Bobcat; hog skull; 3 hammocks. Large set of Lenox 'Rhodora' china; pink Bride's basket & silverplate holder; large antique oil painting; selection of kerosene and old electric lamps; Roseville; Hull; marble mantel clock; St. Marys, Ks advertising bowl & collectibles; handpainted bowls & relish.

NOTE: Many items packed & stored for a number of years-many interesting items and more to be discovered.

AREA COLLECTOR & ITEMS OF THE LATE IRENE CAMPBELL

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USDA finalizes crop insurance provisions of 2014 Farm Bill

The U.S. Department of Agriculture's Risk Management Agency (RMA) has announced that the final safety net provisions of the 2014 Farm Bill, which provide farmers and ranchers better protection from weather disasters, market volatility and other risk factors, are now in place. With this announcement, RMA has fi-

nalized an interim rule that completes provisions such as enterprise units for irrigated and non-irrigated crops, adjustment in actual production history to establish insurable yields, crop production on native sod, beginning farmer and rancher provisions, coverage levels by practice, and the authority to correct er-

rors. "The Farm Bill directed us to make some changes that would strengthen the safety net we provide for America's farmers and ranchers," RMA administrator Brandon Willis said. "These safety net options will help ensure that America's hard working farmers and ranchers, and their

families are able to better manage risks so that they can continue to farm even after years of severe weather."

RMA began implementing the provisions under an interim rule for the 2015 crop year. The action enables RMA to continue to offer and expand on the Farm Bill provisions for the

federal crop insurance program.

USDA received more than 350 public comments on the interim rule published July 1, 2014. Based on that feedback, RMA made changes to one part of the rule - the native sod provisions. The final rule clarifies an exception that allows producers to break up

to five acres of native sod and not receive reduced premium subsidy on coverage of native sod acreage. All other provisions of the final rule remain unchanged. A copy of the final rule went on display at the Federal Register and was published June 30 at <https://www.federalregister.gov/>

Superior Livestock reports on Tallgrass Yearling Auction

Superior Livestock Auction continued its summer auction run in Emporia, hosting their Tallgrass Yearling Auction from the Anderson Building at the Lyon County Fairgrounds. Cattle producers offered 15,550 head of stockers and feeders from eight states. The auction started at 9 a.m. Central and was streamed live on Superior Livestock Auction's Click To Bid website. They saw comparable and active buying on both internet bidding and the bid-lines revealing a very competitive yearling market.

Friday morning's stock market woes were far from Kansas as they saw strong gains on yearling steers weighing below 850 pounds bringing \$1-2 higher than our last auction. Yearling steers weighing over 850

pounds had prices that were constant with the previous week. Light yearling heifers stayed steady and heifers 700 pounds and over brought \$2-3 less than what we witnessed at our last auction.

Superior is the largest livestock auction in the United States and markets well over one million head of cattle annually. With over 400 representatives located throughout the United States, Superior provides a complete national marketing network that serves both buyers and sellers.

Top Lots Included:

Southern Yearlings:

Ag Partners, Hugo, Okla., 725 lbs., Certified Natural, Out of Angus & Angus Exotic Cross Cows by Reg. Angus Bulls. 90% Black Hided. A few will show a tic of ear. Fdr Strs, \$148.50, June del.

Savage Ranch dba Two Mounds Ranch LLC, Hominy, Okla., 800lbs. English, English Cross, some Exotic Cross & a handful with a touch of ear. 4 head of colored cattle. Fdr Strs, \$146.75, June del.

Engle Farms LLC, Madison, 825lbs., BVD PI Free, English, English Cross & Exotic Cross. Some w/ Brahman influence. Fdr Strs, \$143.00, July del.

Stout Cattle Co., Cottonwood Falls, 850 lbs, BVD PI Free, English, English cross & Exotic cross. Some will show Brangus influence, Black, Red, & Charolais Cross. Fdr Strs, \$142.50, July del.

Beef Productions, Inc. Gary Hatcher, Emporia, 875 lbs, English cross, Exotic cross & some w/ Brahman influence. 100% black hided. Fdr Strs, \$144.75, June del.

Tim Wiggers, Eureka, 900 lbs, Angus & Angus Cross, Fdr Strs, \$145.10, July-August del.

Raaf Land & Cattle, Gridley, 925 lbs, BVD PI Free, Angus, Angus Cross & Exotic Cross w/some showing up to 1/4 Brahman influence. 100% Black hided. Fdr Strs, \$138.00, July del.

T.W. & Rachelle Burton, Cottonwood Falls, 975 lbs, Out of Angus & Angus Cross cows by Hinkson, Molitor & Mill Brae Reg. Angus Bulls. Fdr Strs, \$137.35, July-August del.

Greyhorse Cattle, Pawhuska, Okla., 1000 lbs, English & English Exotic Cross. Approx. 10% Carrying up to 1/8 ear. Pred. Black hided. Fdr Strs, \$132.50, July-August del.

Greg Christensen, Hamilton, 725 lbs, English, English Cross & Exotic Cross. Hand-

ful with a touch of ear. Fdr Hfrs, \$141.85, July del.

Caston Farms, Mountain View, Ark., 750 lbs, vac, precon, English, English Cross & English Exotic Cross. Approx. 20% 1/4 or less ear. Fdr Hfrs, \$127.00, July del.

Bob Eppenauer, Olpe, 875 lbs, vac 45, Certified

Natural, out of Angus & Angus cross cows by Fink & McKenzie Angus bulls. Fdr Hfrs, \$133.75, July-August del.

Northern Yearlings: L&K Livestock, Inc. Ohiowa, Neb., 775 lbs, Black hided & Red or RWF. Fdr Strs, \$150.75, June-July del.

L&K Livestock, Inc. Ohiowa, Neb., 825 lbs, Black, Red, Charolais Cross & Sussex Cross. Fdr Strs, \$145.50, June-July del.

Standing Heart Ranch, Kalispell, Mont., 925 lbs, Angus, Fdr Strs, \$135.25, September del.

Ag Partners, Hugo, Okla., 800 lbs, Certified Natural, Out of Angus & Angus Exotic Cross cows by reg. Angus bulls. 90% Black Hided. A few will show a tic of ear.

Fdr Hfrs, \$133.50, June del.

Dale George, Beaumont, 825 lbs, English & English Exotic Cross with 3/8 or less Brahman influence. Fdr Hfrs, \$129.50, August del.



Cavender's

Green grass, blue skies and good cattle greeted buyers and bidders alike at the beautiful Neches River Ranch west of Jacksonville, Texas on April 23rd for the annual spring GENETRUST Registered and Commercial Brangus Female Sale hosted by Cavender Ranches. Buyers from coast to coast gathered on location and on the internet to evaluate and appraise the largest registered Brangus female offering of the spring, with the cattle meeting expectations as the sale finished as the highest averaging registered female event ever hosted by the Cavender crew.

Highlighting the youthful offering and securing the top selling spots were two lots from GENETRUST partner Draggin' M Ranch, El Dorado, Ark. Lot 37A, MS DMR Roll Tide 302C3, & 37B, MS DMR Roll Tide 302C5, garnered much attention pre-sale for their stoutness and power. Hailing from Roll Tide and a proven 607L11 daughter, these lots expressed breed leading growth, maternal and REA in an eye-appealing package. When the hammer dropped on choice of these two females it was Clover Ranch, Marietta, Ga., in the driver's seat, selecting 37B at \$17,000 followed shortly thereafter by a \$15,500 bid from Ganaderia Millan, Magdalena, Senora, Mexico to own 37A. In the ring right behind these females was another set of flush mates, this time sired by Heritage stemming back to the renowned 594S7 donor-females with tremendous muscle expression that brought exceptional growth, maternal and carcass improvement to the table. Another hotly contested battle ensued for choice of 86A, MS DMR Heritage 594C11, and 86B, MS DMR Heritage 594C12. When the smoke cleared Rafael Ortega, Houston, Texas had selected 86A for \$15,000 and Paul Willet, McKinney, Texas, had chosen 86B at \$14,500.

At the conclusion of the registered female portion, 109 Registered Brangus and Ultrablack lots averaged \$5639, selling from Oregon to North Carolina, as far south as Mexico and numerous points in between. Robert Faris, Tyler, Texas,

Neches River Ranch hosts GENETRUST sale

Belt Brangus, Gatesville, Texas, Andrew Scamardo, College Station, Texas and Larry Franke Karnes City, Texas were the volume buyers for the day.

The GENETRUST program has become a known source for high quality commercial replacement females, highlighted each year by the spring offering at Cavender's. With the pens full of Brangus females ready to get the job done, this offering was no exception. Topping the commercial female offering was a set of 3n1s from GENETRUST customer Leto Farms, Letohatchee, Ala. that were multi-generation sired by GENETRUST bulls. These five pairs commanded \$3750 from long time GENETRUST customer Sam Glass, Gonzales, Texas. Highlighting the large string of spring pairs was a set from another GENETRUST customer Dr. Kristen Kastner, Sinton, Texas. These

six pair represented the best in GENETRUST genetics and at \$3200 found a new home in Arkansas with NBA legend Scottie Pippen.

When the tallies were finalized, 6 3n1s averaged \$3750, 39 open heifers averaged \$1928, 70 bred heifers averaged \$2319 and 191 spring pairs averaged \$2742 for a total of 306 Brangus females to average \$2562. Mike Douget, Beaumont,

Texas was the volume buyer for the day.

Bill and Gail Davis will roll out their unrivaled hospitality November 4-5, 2016 at Chimney Rock Cattle Company for the next offering of GENETRUST genetics where 150 Brangus and Ultrablack bulls, 100 ELITE registered Brangus females and 300 commercial Brangus females will be offered for appraisal. Additionally,

AUCTION
WEDNESDAY, JULY 13 — 10:30 AM
623 N. Manhattan, MANHATTAN, KANSAS
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CATTLE SALE EVERY WEDNESDAY: 11:30 AM

SELL HOGS 1ST & 3RD

WEDNESDAY OF EVERY MONTH

6/29/16

Not enough steer & heifer calves to truly test the market. Feeder steers & heifers sold steady with instances of \$5 higher.

COWS

Herington, 1 blk	1070@89.00	Wht City, 1 blk	1185@73.50	Burdick, 29 mix	893@141.35
Herington, 1 blk	1320@87.00	Woodbine, 1 blk	1375@72.50	Herington, 12 mix	784@140.00
Burdick, 1 blk	1665@83.00	Woodbine, 1 blk	1180@72.50	Lnchville, 56 blk	926@139.35
Hope, 1 blk	1420@83.00	Lnchville, 1 blk	1055@70.00	Elmdale, 6 blk	1454@111.50
Herington, 1 blk	1280@82.50	Wht City, 1 char	1180@64.50	Cncl Grve, 2 mix	385@150.00
Lnchville, 1 blk	1085@81.00	Cncl Grve, 4 mix	459@141.00	Cncl Grve, 3 blk	530@141.00
Abilene, 1 blk	1435@80.00	Cncl Grve, 2 blk	723@135.50	Lawrence, 3 blk	558@140.00
Wht City, 1 red	1230@80.00	Marion, 1 blk	1600@103.50	Wilsey, 5 mix	612@138.00
Lnchville, 1 r/wf	1355@78.50	Marion, 1 blk	1740@101.00	Burdick, 13 blk	651@135.25
Lnchville, 1 blk	1335@78.50	Burdick, 1 wf	2230@100.00	Lawrence, 4 blk	628@135.00
Woodbine, 1 blk	1520@78.50	Wht City, 1 Hol	1815@77.50	Burdick, 30 blk	783@133.00
Wht City, 1 Hol	1815@77.50	Abilene, 1 red	1395@76.00	Wilsey, 5 mix	775@132.50
Abilene, 1 red	1395@76.00	Lnchville, 1 blk	1000@75.50	Marion, 3 blk	663@130.00
Lnchville, 1 blk	1000@75.50	Burdick, 62 blk	862@147.10	Burdick, 9 blk	896@122.75
Marion, 1 r/wf	1345@75.00	Lawrence, 12 mix	711@147.00		
Wht City, 1 blk	1165@74.50	Burdick, 12 mix	724@144.00		



NO CONSIGNMENTS THIS WEEK EARLY CONSIGNMENTS FOR JULY 13:

- 30 blk str & hfrs, 600-700 lbs
- 60 mix str, 900-925 lbs
- 60 mix str, 850-875 lbs

• 5 mix cows, 3-5 yrs old w/calves at side

MORE CATTLE BY SALE TIME!

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

View Our Auction Live at LMAAUCTIONS.COM

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Yard & Garden Tips By Gregg Eyestone

Bagworm Management

Bagworms feed on just about any plant but seem to favor the evergreens. I suggest looking over your spruce, arborvitae, and junipers which includes the eastern redcedars for bagworms. Scout other plants

as well. I found them on my deciduous serviceberry. The ones I've seen are already a half-inch long.

Hand removal is an option although it could become a tedious task. There are lots of products labeled

for control of bagworms. Bagworms are susceptible to these products, especially when the bagworms are young. Control with an insecticide later in the season becomes much more difficult.

Commonly used insecticides include Malathion or spinosad. Some other active ingredient possibilities include the bacteria Bacillus thuringiensis, acephate, bifenthrin, carbaryl, cyfluthrin, deltamethrin, lambda-cyhalothrin, or permethrin. Always read the product label for best results.

More importantly than which product to use, is the application process. Thorough spray coverage is necessary to reduce bagworm populations. Hand pressure sprayers typically don't penetrate dense foliage of evergreens. They are good at treating the peripheries of the plants. Bagworms

often feed deep in the plant.

Powered sprayers or hose end type of equipment are better at treating the whole infected plant. Tall trees may require a commercial applicator to get complete coverage.

A resistant plant to bagworms could be good for your landscape. The only plant that I ran across claiming this is the 'Green Giant' arborvitae. It was not a researched claim so I'm cautious about its ability.

The bagworm preferred plants add interest to the landscape. Evergreens are of particular interest in the winter. I still suggest using them in the landscape.

There aren't any guarantees when working with nature.

Available from the Extension office or online is the K-State Research and Extension's publication "Bagworms" to provide additional information.

You can find out more information on this and other horticulture topics by going to the Riley County, K-State Research and Extension website at www.riley.ksu.edu. Gregg may be contacted by calling 785-537-6350 or stopping by 110 Courthouse Plaza in Manhattan or e-mail: geyston@ksu.edu

Farmers & Ranchers AUCTIONS EVERY MONDAY & THURSDAY

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THURSDAY AUCTIONS RESUME JULY 7th!

**We will be having
SPECIAL GRASS CATTLE SALES:
Tuesday, July 26 & Tuesday, August 2
Selling large load lots off grass!**

**RECEIPTS FOR THE WEEK TOTLED 825 CATTLE & 114 HOGS.
BUTCHER HOG TOP ON MONDAY WAS \$51.50**

STEERS		COWS			
4 blk	Marion	494@161.00	2 blk	Randolph	1165@84.00
7 mix	Grainola, OK	533@159.00	1 blk	Canton	1420@84.00
3 blk	Marion	608@151.00	1 blk	Sterling	1360@83.50
6 mix	Grainola, OK	639@151.00	1 red	Hope	1075@83.00
62 mix	Enterprise	752@149.00	1 r wf	McPherson	1190@83.00
37 mix	Enterprise	778@147.25	1 blk	Canton	1720@83.00
63 mix	Hope	813@146.85	1 blk	Sterling	1530@83.00
9 blk	Abilene	610@144.00	1 blk	Grainola, OK	1000@82.50
19 red	Beloit	866@140.10	1 blk	Longford	1520@82.00
52 mix	Beloit	918@134.75	1 blk	Hays	1570@81.00
23 mix	Abilene (Bulls)	561@134.00			
57 mix	Beloit	946@131.75			
17 mix	Beloit	917@131.75			
HEIFERS		BULLS			
4 char	McPherson	359@156.00	1 blk	Lorraine	1950@109.00
3 char	McPherson	447@151.00	1 blk	Tampa	1870@108.00
19 mix	Grainola, OK	523@141.50	1 red	Lincoln	1680@102.00
7 mix	Grainola, OK	728@133.00	2 blk	Claflin	1775@101.00
4 mix	Gypsum	906@124.00	1 red	Gypsum	1780@96.00
1 blk	Assaria	920@124.00			
CALVES					
1 blk	Hope	220@510.00			
1 blk	Hope	215@475.00			
1 char	Hope	170@450.00			

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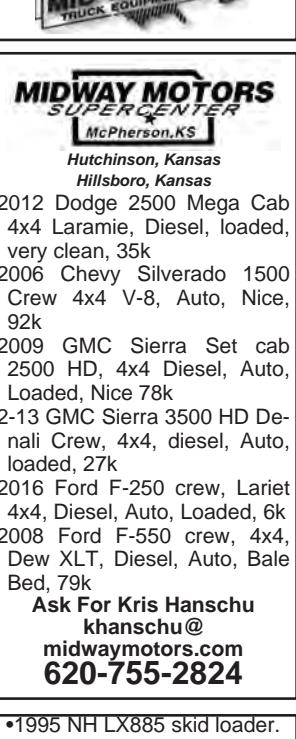
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2006 Case IH RBX563 5x6

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1995 Case IH 8480 5x6.....

\$2,500 (H)

2003 Hesston 956 5x6

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U.S. growers plant record high**soybean acreage in 2016, corn planted acres up 7 percent from last year**

The U.S. Department of Agriculture's National Agricultural Statistics Service (NASS) estimates U.S. soybean planted area at a record high 83.7 million acres, up 1 percent from last year, according to the Acreage report.

The report shows U.S. growers, aided by favorable weather conditions, increased or maintained their 2015 soybean acreage in 18 out of the 31 major producing states. In Kansas, Minnesota, and Missouri, soybean growers significantly increased their planted acres, with each state reporting 200,000 or more acres planted to soybeans this year than in 2015. Growers expect to harvest 83.0 million acres of soybeans nationally this year, which, if realized, will be a new record high.

U.S. corn growers also benefited from the excellent field conditions this year, increasing their acreage from last year by 7 percent to 94.1 million acres, making it the third highest corn planted acreage since 1944. Growers expect to harvest 86.6 million acres for grain. If realized, this will be the third highest acres harvested for grain since 1933.

Both soybean and corn growers continued to embrace biotechnology. According to the report, 94 percent of this year's soybean acreage was planted to herbicide resistant varieties. On the corn side, 93 percent of

2016 crop was planted to biotechnology seed varieties, which include insect and herbicide resistant varieties of corn seed.

NASS also released the quarterly Grain Stocks report to provide estimates of on-farm and off-farm stocks as of June 1. According to this report, there are 4.72 billion bushels of corn stored in the United States, up 6 percent from June 1, 2015. Of these, 2.47 billion bushels are stored on farms, and 2.25 billion bushels are off-farms.

There are also 870 million bushels of soybeans stored in all positions in the United States, up 39 percent from the same time last year. The report shows that 281 million bushels of soybeans are stored on farms, while 589 million bushels are off farms. Off-farm stocks are up 55 percent from June 1, 2015.

To gather these data, NASS surveyed approximately 11,000 segments of land and 70,500 producers during the first two weeks of June to gather information on what farmers planted. The agency collected data by mail, telephone, internet, and personal interviews to ensure all participating growers accurately report their acreage and storage information.

The Acreage and Grain Stocks reports and all NASS reports are available online at www.nass.usda.gov.

Better bread: how researchers use genomics to predict bread quality and accelerate wheat variety development

because they can't produce a good loaf of bread."

The team used wheat quality data generated in the test baking lab and built prediction algorithms for determining quality traits in new generations of candidate wheat varieties using DNA markers. Using the prediction algorithm, they were able to advance wheat quality screening by at least a year and predict over ten times more candidate varieties than can be tested in the quality lab.

With funding from the U.S. Agency for International Development's Feed the Future Initiative, the team is using DNA markers to predict important quality traits for bread wheat, such as dough strength and loaf volume. Their work, "Genomic Selection for Processing and End-Use Quality Traits in the CIMMYT Spring Bread Wheat Breeding Program," was recently published in the journal *Plant Genome*.

Lead author is Sarah Battenfield, a Kansas State University doctoral graduate in genetics and former postdoctoral associate in plant pathology. Co-authors are the university's Allan Fritz, professor of agronomy, and Jesse Poland, assistant professor of plant pathology.

"Traditionally, we were able to test about 1,500 samples per year in the CIMMYT quality lab, but since we predicted quality by DNA markers alone, we were able to screen all

10,000 first-year yield trials for quality, which is more than would be possible to physically handle, at roughly the same cost," Battenfield said.

Battenfield and the team believe there is potential to advance the process by up to three years.

"Wheat quality testing starts with analyzing grain morphology, hardness and protein content," said Carlos Guzman, Roberto J. Peña and Ravi P. Singh, all from CIMMYT. "The procedure continues milling wheat kernels into flour then determining protein content and how much water is optimal for dough-making in different rheological tests. Then the flour is mixed with water in a mixograph, which is like a miniature mixing bowl with pins that can measure resistance of the dough while it is being developed — like a seismograph."

Historically, the main focus of wheat breeding has been grain yield and the selection of lines with the best performance and disease resistance.

"In many breeding programs, quality traits are evaluated at the very end of the selection cycle for candidate wheat varieties because of the high cost and the large quantity of grain needed for testing," Battenfield said. "Because the typical wheat breeding cycle takes eight to ten years, waiting to test for bread quality until the final years often results in what were thought to be promising wheat lines being discarded

to withstand industrial processing."

Dough strength, amount of mixing time and extensibility are all measured and bread is baked as a final test of performance. From all this data a decision can be made on whether the wheat line is good enough to keep — but this question cannot come until six to eight years into the breeding cycle.

"Using DNA from single plants, we can use these new prediction models to get an assessment of the quality much earlier in the breeding cycle," said Poland, the study's senior author. "This is long before we have enough seed for quality testing."

Decreasing breeding cycle time has the biggest impact in breeding on return on investment, according to the researchers.

"These adjustments indicate that we could increase selection for quality two to three times above what is currently possible," Poland said.

The results also show that wheat breeding programs can use genomic selection for wheat quality, along with their traditional breeding pipeline, to more effectively and efficiently use resources, including time and money.

Poland said this prediction method allows the elimination of lines that would not be able to pass the final test of wheat quality. Accurate processing and end-use quality prediction models, such as genomic selection, will allow breeding programs to cull unacceptable lines or target specific lines before time and resources are invested in lines that will not pass the final test.

Additional sources of funding for the study were provided by the Monsanto Beachell-Borlaug International Scholars Program, the Bill and Melinda Gates Foundation, CGIAR CRP WHEAT and the Durable Rust Resistance Project.

Improving food access requires innovation

By Katie Allen and Connor Orrock

Understanding local food needs, improving access to healthy foods, providing adequate nutrition to a potentially diverse population and keeping customers coming through the doors to maintain funding for the business—rural grocers and the communities they serve face several unique challenges.

It often takes entrepreneurial minds to come together and use innovative tactics to meet the needs of these communities. One of the tactics rural grocers use is working closely with other businesses and community partners.

A community partner in Hoisington for example, is the Clara Barton Hospital. For Brian Dolezal, the hospital's dietary director, community outreach and education are top priorities.

"We place the cutout of Clara Barton in the local supermarket," Dolezal said, referring to the community's Town and Country Supermarket. Together, the hospital and store are collaborating for healthy food access in the town of about 2,700 people.

The cutout of Clara Barton has an important purpose in the store. When it's time to create the week's healthy menu for the hospital's dietary department, Dolezal turns to the local store's specials for inspiration. He works with others at the hospital to formulate meal recipes and strives to keep meals in the 500-700



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LAND AUCTION

SATURDAY, JULY 30 — 10:00 AM

At the farm, 370 Jayhawk Road, Marysville, Kansas, located 4 1/2 miles west, 1 mile north, and 1/2 mile west of the US 77/US 36 Junction on the west edge of Marysville, Kansas.

4 Tracts - 540 acres, more or less, Marysville & Logan Townships, Marshall County, Kansas Land

TRACT 1: A tract of land in the NW 1/4 29-2-7, Marysville Township, Marshall County, Kansas.

This farm, 115 acres, more or less, consists of approximately 102 acres cropland with the rest of the farm being waterways. 8th Road runs along the west side and Juniper Road is on the south. The 2015 taxes were \$1,272.68.

TRACT 2: The SW 1/4 21-2-6, Logan Township, Marshall County, Kansas.

This farm, 160 acres, more or less, consists of approximately 130 acres cropland with the rest being waterways, draws, hay land, and winter pasture. 3rd Road runs along the west side and Jayhawk Road is on the south. The estimated taxes are \$2,078.23.

TRACT 3: The SE 1/4 21-2-6 except the home site and improvements, Logan Township, Marshall County, Kansas.

This farm, 147 acres, more or less, consists of approximately 120 acres cropland with the rest being waterways and hay land. 4th Road runs along the east side and Jayhawk Road is on the south. The estimated taxes are \$1,887.47.

Tracts 2 & 3 will be sold "high bidder's choice" by the acre.

TRACT 4: The W 1/2 NE 1/4 & E 1/2 NW 1/4 in 26-2-6, Logan Township, Marshall County, Kansas.

This farm, 120 acres, more or less, consists of approximately 105 acres cropland with the rest being waterways and timbered draws. Located on the south side of Jayhawk Road, 1/4 mile west of 6th Road. The 2015 taxes were \$1,436.62.

Terms on all the farms: Ten (10) percent paid down the day of the auction, with the balance due on or before September 30, 2016. Possession will be given at closing, subject to the rights of the Sellers to harvest and retain the fall harvested crops.

All these farms are well located on good roads near Marysville and near US 77 and US 36. The land has been well farmed and cared for, with conservation practices in place for many years. The cropland soils are nearly all Wymore and Pawnee gently sloping upland. The land is planted to corn and soybeans.

(The 12.7 acre home and improvement site on Tract 3 has been surveyed out and is for sale. Call: 325-2734)

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calorie range.

They strive to include recipes that are simple for community members to make—recipes that are healthy, quick and do not require many ingredients. The recipes are also balanced using the U.S. Department of Agriculture's MyPlate.

The cutout of Clara Barton at the store includes these recipes to make customers' shopping easier and hopefully gets them focused on healthy eating, Dolezal said. He helps the supermarket by buying fruit on a regular basis to use at the hospital, which provides fruit-infused water to patients on a regular basis.

In addition to working with the grocery store, Dolezal said the hospital is working with local schools, restaurants and other businesses with the formation of a community-wide wellness committee.

"There are different people from the community on the committee to discuss different (food) resources available," he said. "We are not only addressing issues that affect the schools, but the community as a whole."

"In a small community, all it takes is some positive change, positive attitudes and getting the ideas out," he added.

The collaboration in Hoisington is just one example of how grocers and other community members can work together to help one another and the community they serve. Dolezal was one of the speakers at the National Rural Grocery

Summit June 6-7 in Wichita, sponsored by the Rural Grocery Initiative at Kansas State University.

Other entrepreneurial minds have enhanced rural food access through the use of virtual food hubs. The High Plains Food Cooperative is a virtual food hub with northwest Kansas ties.

"Food comes into the drop sites, and then trailers pick up the food products and deliver them to the greater Denver area," said Leon Atwell of Advancing Rural Prosperity Inc. He works closely with the co-op as a producer and consumer member and described the co-op as a "food aggregator" at the National Rural Grocery Summit.

The primary focus of the co-op, he said, is for small-to-medium-sized producers to sell their products to local consumers. The producers grow a variety of foods, including poultry, eggs, meat, grains and vegetables.

Consumers can visit the co-op website to learn more about the producers, their products and management practices, as well as how to sign up and buy local foods.

One of the co-op's initial challenges, Atwell said, was the reality of empty back-hauling, or fueling an empty trailer on the return trip.

"We hauled our food from western Kansas and western Nebraska to the Denver area, but our trucks and trailers were coming back empty," he said. "We saw an opportunity to bring locally grown foods in Colorado back to Kansas. The producers in Colorado do a good job with different kinds of produce."

Atwell shared that the co-op also started a senior bundle program. Through the program, seniors are able to purchase bundles of locally grown foods for \$30. Many seniors in the community enjoy the program and the convenience it provides.

The High Plains Food Co-op is also striving to bring fresh, locally grown food products into the rural grocery stores the trucks pass on the way to Denver and is working on projects to expand supply into other

grocery stores, Atwell said.

Focus, engage and work through challenges

"My mother told me when I was four or five years old, I started bringing kids home for a bologna sandwich and hug, so I think it's important that people have access to food," said Pam Budenbender, owner of the Onaga Country Market in Onaga. Budenbender was a panelist on the "Rural Grocery Best Practices" session at the National Rural Grocery Summit.

Budenbender's caring nature remains today, as she is constantly updating her store to include different services to meet the needs of people living in her small town. Her quest to bring amenities locally didn't stop at adding the option to rent videos. When the local florist closed, she bought the floral cooler and now offers floral arrangements in her store.

Another focus she has as a rural grocer is making sure all people have access to quality food. That's why she provides customers the option to purchase donation bags in the store for the food pantry.

"I think the food pantry gets forgotten," Budenbender said. "There is a need in the community, and I want to feed people. At the end of the month when people do not have the money to come to the grocery store, I want to make sure the food pantry has food available to them."

No doubt, community is important to Budenbender and her employees. Her store offers carryout services to customers. The meat department manager frequently spends time on the sales floor visiting with customers and handing out balloons to the children. Her store manager and deli department manager work with the Pottawatomie County Relay for Life and involve the store to support those events as well.

Small town grocery stores are often needed in the community; however many must compete with larger chains in a close proximity. Such is the case

with the Chapman Food Mart in Chapman. Doug Thompson, a local attorney, opened the store nearly a year and a half ago. Before that, the nearest grocery store was 12 miles away. A 24-mile round-trip seemed accessible enough but still was a hindrance to some community members.

Thompson, also a "Rural Grocery Best Practices" panelist at the National Rural Grocery Summit, said a result of Chapman's Neighborhood Revitalization Plan was discovering the desire of community members and the city commission to have a grocery store in a specific location in town.

"When we started with the idea, we recognized we are not a chain store," Thompson said. "We are a small grocery store of 8,000 square feet. We recognized that we needed to learn everyone's name, and thus they will learn our names. We interact with the people. We go to church here. We participate in the town parade. We do sporting events here."

While Chapman may be a small town of nearly 1,400 people, the high school covers an area of over 500 square miles and is in a 4A athletics class, Thompson said. The school buys many items from the grocery

store, and the store, in turn, supports fundraising efforts by the teams and clubs at the school.

While sales have increased month to month, Thompson knows that someday they will level off, as Chapman is a small town—and he's fine with that. What keeps him going is making sure that as the owner, he is providing unique items and a unique "hometown" experience.

"Lots of places can sell dry goods," he said. "You have to have something that is unique, and part of that is the appearance of the store. Some of it is the way your staff interacts with people. But, then you also have to sell some special things. We have a deli. The people in town know when we are barbecuing and smoking meats. People from out of the area come to the store for fresh meat, as they know it is cut daily."

Supplying quality products at affordable costs, engaging with the community and providing shoppers with a comfortable and unique experience are just a few of the many ways rural grocers seem to make it work. More information about the National Rural Grocery Summit is available online at <http://k-state.edu/ruralgrocery>.

Except for soybeans, Kansas grain stocks increase in 2016

Kansas corn stocks in all positions on June 1, 2016 totaled 170 million bushels, up 13 percent from 2015, according to the USDA's National Agricultural Statistics Service. Of the total, 37.0 million bushels are stored on farms, down 8 percent from a year ago. Off-farm stocks, at 133 million bushels, are up 21 percent from last year.

Wheat stored in all positions totaled 208 million bushels, up 49 percent from a year ago. On-farm stocks of 8.0 million bushels are up 70 percent from 2015 and off-farm stocks of 200 million bushels are up 48 percent from last year.

Sorghum stored in all positions totaled 48.9 million bushels, up 152 percent from 2015. On-farm stocks of 6.5 million bushels are over four times a year ago and off-farm holdings of 42.4 million bushels are up 137 percent from last year.

Soybeans stored in all positions totaled 27.9 million bushels, down 16 percent from last year. On-farm stocks of 3.10 million bushels are down 51 percent from a year ago and off-farm stocks, at 24.8 million bushels, are down 8 percent from 2015.

Oats stocks stored in off-farm positions totaled 508,000 bushels, up 53 percent from a year ago.

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FRIDAY SELLING contents of large 2 story home at 522 Liberty in Westphalia, KS which includes dishes, large amount of old antique furniture from several generations, collectibles, old farm toys, old quilts, misc tools, some older household goods. **Coins & stamps sell at 1:00 PM Friday**

SATURDAY SELLING 7060 Allis tractor, Agri Power 9000 dsl tractor, M Farmall, 820 John Deere Wheatland tractor (motor might be stuck), Model 90 Allis combine (in shed), walk behind garden tractor, 830 Allis riding mower, C Gleaner combine (in shed) w/modification 4 wheel drive, large shop built land plane, large heavy shopbuilt hydraulic pull type dirt scraper, 16 hole MM drill w/grass seeder on low rubber (shedded), Welders, shop items, large Brooklyn New York anvil, smaller anvil, Cone anvil, blacksmith items, lots of old farm collectibles from contents of old farm buildings.

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What makes a White Wheat Champion?

Joe, the newest hard white winter wheat variety from Kansas Wheat Alliance, was named after T. Joe Martin, retired wheat breeder at K-State's Agricultural Research Center in Hays.

Joe Martin began his wheat breeding career in 1974, after graduating from Michigan State, when he started in the plant disease program at KSU ARC and later became a wheat breeder. Martin's favorite part about being a wheat breeder was the time he spent out in the fields enjoying the crop. His favorite variety was Trego, which was a white wheat variety released by Martin in 1999.

Martin recalled his reaction when he found out they

wanted to name the new white wheat variety after him.

"I thought I'd have to be dead before they named a variety after me, but they assured me that was not a requirement," said Martin.

The development of the variety Joe was started in the early 2000s by Martin and K-State's Wheat Improvement Team. The process lasted 12 years from the initial cross to its release in 2015. After Martin's retirement in 2012, Guorong Zhang took over the performance testing process for Joe.

"The only thing white wheat can't do that red wheat does is produce a bitter loaf of whole wheat bread," said Martin. "The

simple fact is, once you go to whole wheat flour, you're increasing your flour yield by 30 percent."

Joe was selected from a cross between two experimental hard white winter wheat lines, KS04HW10-3 and KS04HW119-3. The first experimental line has Jagger and Arlin in the pedigree, with Trego*2 and CO960293 in the second line's pedigree.

Martin explained Joe's initial cross from its parent, KS04HW101.

"One of the parents of Joe was one of the survivors of the stripe rust epidemic back in 2001. From that point on, we've had to deal with stripe rust for quite some time and it's a major disease today," said Martin.

"The big thing you notice about Joe the first time you look at it is the overall yield of it, and it's pretty impressive," said Martin.

Joe stands above the competition as the White Wheat Champion because it has a better whole and white flour baking quality when compared to Danby. It has also had outstanding test performance in western Kansas for the past three years at 17 locations, with an eight bushel yield advantage over any other white or red wheat variety.

"When you see how Joe performs in the field, it's easy to see why we call it the White Wheat Champion," said Daryl Strouts, KWA president. "But it's really about how Joe Martin com-

mitted a major part of his wheat breeding efforts to white wheat. He was one of the first breeders to seriously work on white wheat and his program was nearly 100 percent white at one time. Joe truly is the champion of white wheat."

Since retirement, Martin has kept close ties with the K-State Wheat Breeding program at Hays, as well as volunteering for the Community Assistance Center several days a week, where they provide food and cloth-

ing to those in need.

"I've done my best to keep up with them by going out to the station several times a week, and have a few pet projects I still work on," said Martin.

Kansas Wheat Alliance is a non-profit organization supporting the wheat interests of K-State, seed producers and farmers. More information about this variety, or the KWA, can be found by visiting www.kswheatalliance.org.

Sorghum Checkoff announces Leadership Sorghum Class III

The Sorghum Checkoff is pleased to announce the members of Leadership Sorghum Class III. Leadership Sorghum is a program hosted by the Sorghum Checkoff that seeks to develop the next generation of leaders for the sorghum industry.

"The success of any organization can be directly traced to the people who lead it," said Sorghum Checkoff chairman David Frenmark. "The sorghum industry has moved forward with extraordinary success in the short life of the checkoff program. This success can be credited directly to the people who have been leading it. With that in mind, the Leadership Sorghum program was formed, and the USCP board believes the positive momentum created these last few years can best be sustained by investing in quality people. Providing these next-generation decision makers with the information and tools that propel sorghum to the next level of profitability is our goal."

Fifteen sorghum farmers from seven states have been selected to participate in the program's third class:

Ted Bannister - Hays
Delbert Ficke - Pleasant Dale, Nebraska
Chad Haden - Clay Center

Allen Hensley - Alice, Texas
Heath Herring - Saint Joseph, Louisiana

Joe Krippner - Kimball, Minnesota
Gary Mach - Abbott, Texas

Jeffery Mai - Garden City
Craig Meeker - Wellington
Ethan Miller - Columbia, Missouri

Zachary Rendel - Miami, Oklahoma
Daniel Riffel - Stockton
Mark Scott - Manhattan
Zachary Simon - Goddard

William Spiegel - Manhattan
Class III will begin the 15-month program in the Texas High Plains in September focusing on the sorghum seed industry and basic and applied research. Throughout the program, participants will be exposed to various aspects of the sorghum industry from basic research to international marketing.

Leadership Sorghum not only benefits the sorghum industry by developing leaders for tomorrow, but it also provides the producer with valuable educational experiences," said Shelee Padgett, Leadership Sorghum program director. "The sorghum industry re-

lies on producers committed to the education and promotion of sorghum."

Through both hands-on and classroom style education, participants will gain an understanding of how sorghum moves through the value chain, how checkoffs and interest organizations

interact on behalf of the industry and what the future holds for the crop. For information about the Leadership Sorghum program, visit www.LeadSorghum.com.

AUCTION

SATURDAY, JULY 23 — 9:00 AM
1661 90TH, PEABODY, KANSAS

DIRECTIONS: From Peabody, Kansas, go 1 mile East on Hwy 50. Then 2 miles North on Pawnee and 1/2 mile West on 90th.

AUCTIONEER'S NOTE: This sale features late model machinery with low hours. Major items have been shedded and well maintained. Few small items on this sale - We will be selling machinery BEFORE NOON - BE ON TIME!!

TRACTORS

2000 John Deere 7810, MFWD, Power Quad, Left Hand Reverse, 3pt, PTO, 3 Hyd Outlets, Joystick for Loader Control, Foot Throttle, 18.4Rx42 Axle Mt Duals, Front Wts, ONLY 3811 act. hrs, SN 36257
1993 John Deere 6400, Power Quad with Reverser, 2 Hyd Outlets, 3pt, PTO, 18.4x34 Single Tires, 4345 Hours, SN P100623
Allis Chalmers 180, 3pt, 540 PTO, 2 Hyd Outlets
Massey Ferguson 50C Industrial Tractor, Shuttle Shift, Perkins Diesel with Farmhand Loader

TRUCKS & TRAILERS

2004 Freightliner FL170, Day Cab, Single Axle, Allison 5 Spd Automatic, C-7 Cat Engine, Air Ride, New Front Tires, 226,919 Miles
2014 Maurer 28' Tandem Axle, Single Hopper Trailer, Roll Over Tarp, 11Rx24.5" Tires

AL 47 450 bu. Grain Cart, 18.4x26" Tires w/hyd auger & rollover tarp
Parker 2500 350 bu. Gravity Wagon with Hyd Auger & Roll Over Tarp
Parker 2000 200 bu. Gravity Wagon, Hyd Auger, Elec Running Gear
Unverferth 275 Gravity Wagon

14' Truck Grain Bed on Tandem Trailer Frame (bumper hitch)

3) Heavy Running Gears (JD & Electric Brands)

1978 Chevy C65, 18' Bed & Hoist, Twin Hoist, 5+2 Spd, 366 V8 Engine, Roll Over Tarp

1978 Chevy C65 16' All Steel Bed & Hoist, 4+2 Spd, 366 V8 Engine, Roll Over Tarp

1972 Chevy Custom 30 1 Ton Dually Truck with Service Box, new tires, 4 Spd, Big Block 400 Engine with PTO Driven Winch

FARM EQUIPMENT/MACHINERY

1992 John Deere 9500 Combine, Power Rear Wheel Drive, Bin Extensions, Vittetoe Chaff Spreader, Long Auger, (hour meter not working but has high hours), was thru shop 2 years ago with lots of repairs made - Sells with JD 925 Rigid Header; John Deere 920 20' Flex Head; Spray Coupe 4640 Sprayer, Auto Trans, 80 Booms, Rear End Rebuilt 2 years ago, has Raven (deleted comma) GPS & Auto Steer; Soil Mover 7 Yard Soil Scraper, Hyd Push Ejection; Landoll 20' Finishall 850, Harrow Levelers; John Deere 980 38' Field Cultivator, Tine Levelers; John Deere 960 30' Field Cultivator, Tine Levelers, Liquid Fertilizer; John Deere 712 12' Mulch Chisel; Krause 1950 25' Disk; John Deere 7200 6 Row Planter, Dry Fertilizer; Krause 1900 21' Disk, 8" Spacing; IH 800 10 Bottom 18" on land Plow, Trip Beam, Center Flex; IH 720 4-18 Semi-Mount Plow; John Deere 218 14' Bat Wing PTO Mower, 1000 PTO; John Deere 717 PTO, 3pt Rotary Mower; 12' Speed Mover; Krause 12' Disk; 2) IH 5100 8"x20 Hole Drills with IH Double Drill Hitch, Hyd Fold; NH 27 Silage Blower; Big Ox 3pt 8' Blade; Landoll 5 Shank 3pt Ripper/Sub Soiler; Drag Springtooth; Jon Blue 1000 Gallon Spray Tank on Tandem Frame; Mity-Bite Loader Bucket; Front End Loader Bale Fork; John Deere 653A Row Head for salvage

MISCELLANEOUS/SHOP/COLLECTIBLES

WinPower 50 KW PTO Generator; 2 Wheel 10'x10' Utility Trailer; 2 Sets 18.4x34" Duals with Axle Hubs; 10"x12' & 6"x12' Augers; 16 Rows of JD Single Disk Fertilizer Openers; 3pt Post Hole Digger; Puma Twin Cylinder Air Compressor with 60 Gallon Tank; Century 250 DC Welder; Continental 30 Ton Hyd Press; 10" Radial Arm Saw; Chop Saw; Drill Press; Anvil; Space Heaters; Metal Table with Bench Grinder; Bench Vise; Large Shop Fan; Leg Vice; Hyd Jack; Chain Saw; Bead Breaker; Floor Jack; Air Bubble; Squirrel Cage Fan; 3/4" Socket Set; Misc Hand Tools, Wrenches, Hammers, Etc.; Shovels, Axes, Misc Yard Tools; Log Chains; Boomers; Large Lazy Susan Bolt Bin; Misc Bolts, Hardware, Bolt Bins; Asst Shop Supplies & Machinery Parts; Large Salvage Iron Pile; 3) Cattle Self Feeders; 100' Metal Dairy Free Stalls; Misc Gates & Panels; Old Alfalfa Packer; Steel Wheel Dump Rake; 8) Wood Spoke Wagon Wheels; 3) 20' Church Pew; Misc Old Shop Items, Wood & Steel Pulleys & More

See www.leppke.com for pictures!

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Lepke Realty & Auction - 620.947.3995

Lyle Lepke - 620.382.5204 • Roger Hiebert - 620.382.2963

Grass & Grain, July 5, 2016

Page 29

LARGE AUCTION

SATURDAY, JULY 16 — 9:30 AM

2730 Sage Road — CHAPMAN, KANSAS

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2007 Landpride model 4410 4x4 ATV.

7 TRAILERS FULL OF FARM-RELATED ANTIQUES, TOOLS, ADVERTISING ITEMS, PRIMITIVES & COLLECTIBLES

See next week's Grass & Grain for a complete listing

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1180 US Hwy. 77, P. O. Box 67, Marysville, KS 66508

SALE INFORMATION FOR JUNE 30, 2016

CALVES BY THE HEAD

BEATRICE, NE	1 BLK BULL	\$450.00	BERN	1 BLK COW	1,205@\$86.50
BEATRICE, NE	1 BLK BULL	\$435.00	MARYSVILLE	1 BWF COW	1,345@\$86.50
BEATTIE	1 BLK HFR	\$410.00	WESTMORELAND	1 BWF COW	1,645@\$85.75
AUBURN, NE	1 WF HFR	\$400.00	RANDOLPH	1 BLK COW	1,545@\$85.50
BAILEYVILLE	1 BLK HFR	\$385.00	BERN	1 BLK COW	1,430@\$85.50
BAILEYVILLE	1 BLK HFR	\$375.00	WASHINGTON	1 XBRD COW	1,605@\$85.50
BEATTIE	1 BLK STR	\$375.00	RANDOLPH	1 XBRD COW	1,265@\$85.00
BAILEYVILLE	1 BLK BULL	\$375.00	FRANKFORT	1 BLK COW	1,205@\$85.00
BAILEYVILLE	1 BLK BULL	\$375.00	RANDOLPH	1 BLK COW	1,585@\$84.50
BEATTIE	1 BLK BULL	\$350.00	WASHINGTON	1 BLK COW	1,035@\$84.00
BLUE RAPIDS	1 BWF BULL	\$275.00	WESTMORELAND	1 BLK COW	1,680@\$83.50
			WASHINGTON	1 BLK COW	1,365@\$83.00
			BLUE RAPIDS	1 BLK COW	1,575@\$83.00
LINN	1 BLK STR	345@\$185.00	BERN	1 BLK COW	1,275@\$83.00
AUBURN, NE	5 BLK STR	334@\$183.00	BLUE RAPIDS	1 BLK COW	1,505@\$82.50
JANSEN, NE	5 MIX STR	371@\$173.00	AUBURN, NE	1 WF COW	1,325@\$82.00
BEATRICE, NE	1 BLK STR	365@\$171.00	AUBURN, NE	1 BLK COW	1,675@\$82.00
WATERVILLE	3 XBRD STR	538@\$166.00	LIBERTY, NE	1 BWF COW	1,095@\$82.00
WATERVILLE	5 BLK STR	552@\$163.50	BEATTIE	1 BLK COW	1,480@\$81.50
WATERVILLE	7 MIX STR	520@\$160.00	WESTMORELAND	2 BWF COW	1,415@\$81.50
MARYSVILLE	7 XBRD STR	613@\$158.50	WESTMORELAND	1 BLK COW	1,590@\$81.50
JANSEN, NE	11 XBRD STR	594@\$155.50	AUBURN, NE	1 BLK COW	1,095@\$81.00
BLAINE	5 BLK STR	628@\$155.00	BLUE RAPIDS	1 BLK COW	1,435@\$81.00
GREENLEAF	1 XBRD STR	490@\$151.00	MARYSVILLE	1 CHAR COW	1,915@\$8

Page 30

Grass & Grain, July 5, 2016

CHS Foundation awards 100 high school scholarships; Kansas students among the winners

The CHS Foundation, the major giving entity of CHS Inc. (NASDAQ: CHSCP), the nation's leading farmer-owned cooperative, announced it has awarded \$100,000 in scholarships to high school seniors pursuing an agricultural-related degree or STEM (Science, Technology, Engineering, Math) field of study with an interest in agriculture. Each of the 100 recipients will receive a \$1,000 scholarship.

"CHS and the CHS Foundation are dedicated to a variety of programs that support the next generation of leaders in agriculture," says Linda Tank, president, CHS Foundation. "We are proud to support these young leaders as they pursue their education and explore the many diverse opportunities the agriculture and energy industries have to offer."

An independent, external review committee selected recipients based on their career goals, essays, transcripts, reference letters and extracurricular involvement. This year's

scholarship winners represent 25 states.

CHS and the CHS Foundation also fund an additional 200 scholarships for students enrolled in agricultural-related programs at colleges across the country. These scholarships range from \$1,000 to \$2,000 and are directly administered by more than 30 CHS partner colleges.

Kansas recipients are Rachel Bellar, Kansas State University and Katelyn Bohnenblust, Kansas State University.

EMPORIA LIVESTOCK SALE CO.
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Fax: 620-342-7741

Date: 6/29/16

BULLS	1 blk	1350@76.50	
1 bwf	1530@102.00	1 bbf	1465@85.00
1 blk, walkoff	1850@105.50	1 blk bbf	1400@84.50
1 blk	1990@109.50	1 red	1475@83.00
1 blk	1930@107.00	1 char	1430@82.00
1 blk	2040@107.00	1 red	1410@72.50
COWS	1 blk	1635@83.50	
1 blk	910@75.00	1 blk	1645@83.00
1 blk	1055@82.00	1 char	1740@79.00
1 blk	1045@81.50	HEIFERS	
1 blk	1030@80.50	2 blk	395@161.00
1 wf, lame	1080@75.00	1 char	450@163.50
2 blk, bred	1140@1375.00	5 blk	421@157.50
1 red	1185@91.00	1 blk	470@155.00
1 red	1135@82.00	3 blk	445@150.00
1 blk	1100@81.00	1 blk	525@145.00
1 bwf	1155@80.00	4 blk	568@144.00
1 blk, lump	1100@73.50	4 blk	630@141.00
1 wf	1225@84.50	9 mix	602@139.00
1 wf	1200@82.50	2 blk	643@134.00
1 bwf	1220@82.00	2 blk	620@133.00
1 blk bbf	1265@80.50	STEERS	
1 blk	1210@78.00	6 mix	392@172.00
1 blk, lump	1270@65.00	3 blk	542@158.00
1 blk	1325@85.50	3 blk	545@155.00
1 wf	1315@84.50	4 blk	554@149.00
1 blk	1315@82.00	5 mix	608@157.00
1 blk	1385@80.00	6 mi	619@150.00
1 bwf	1315@79.00	3 blk	623@150.00
1 bwf	1300@78.50	2 blk	723@143.00
1 blk	1365@77.50	1 blk	775@135.00
1 red	1355@77.00	58 mix	885@137.00

NO SALE JULY 6th DUE TO HOLIDAY. NEXT SALE JULY 13th

EARLY CONSIGNMENTS FOR JULY 13th:

- 400 blk & red heifers, 775-850 lbs
- 180 blk red & char steers, 850-950 lbs
- 120 blk & red steers, 825-950 lbs

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

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LYLE WILLIAMS, Field Representative, 785-229-5457

WIBW 580 - 6:45 A.M. Thurs; KVUE 1400 - 6:30-6:45 A.M. Thurs. & Fri.
emporialivestock.com



Paul Willett examines the lots at the GENETRUST Sale at Cavender's Naches River Ranch.

LAND AUCTION

SATURDAY, JULY 23 — 10:00 AM
At the American Legion building, CUBA, KANSAS

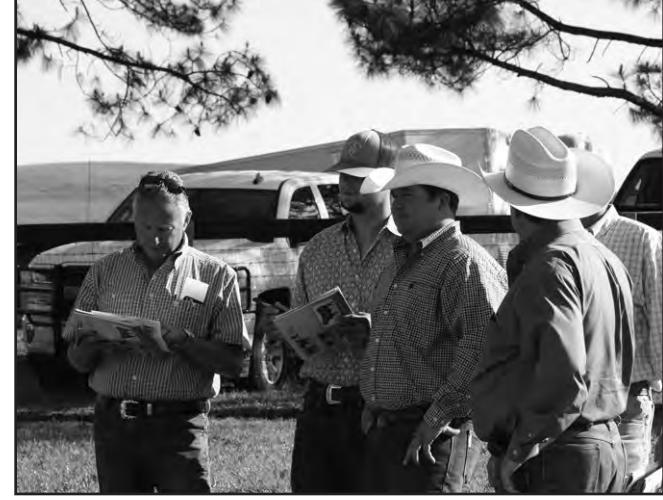
200 Acres Republic County Pasture & Farmland
The SW 1/4 & SW 1/4 NW 1/4 1-4-2, Grant Township, Republic County, Kansas

This farm, 200 acres, more or less, consists of 160+ acres warm season and cool season grass pasture with the balance being 34 acres upland cropland which is planted to milo. There are three spring fed ponds. The fences are excellent. The pasture has been rested this season. There are some timbered draws that provide excellent wildlife habitat. A power line runs along the west side of the farm. This farm is located 5 miles south and 2 miles west of Cuba. This is the southwest corner of the farm, the intersection of Union Road and 240 Road. The 2015 taxes were: \$1,181.77
TERMS: Ten percent down, with the balance due in 30 days. Possession given at closing. The buyer will receive the milo crop and reimburse the seller his crop expenses.

TOM & KRISTI BLAZEK

Auction by:

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785-325-2734 or 747-8017
www.BottRealtyAuction.com



Andrew Scarmado was among the buyers at the GENETRUST sale at Cavender's Nches River Ranch.



Buyers from Clover Ranch look over the offering at the GENETRUST Sale at Cavender's Nches River Ranch.

JC LIVESTOCK SALES INC.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

For the week of June 29, 2016:

47 STEERS	830	147.85	Top Butcher Bull \$102.50 @ 1,690 lbs.
HEIFERS	No Test		Bred Cows: \$1,025 to \$1,400 Pairs: No Test Fat Hog Top: No Test Sows: No Test Pigs: No Test
Top Butcher Cow \$83.00 @ 1,340 lbs.			

UPCOMING SALE SCHEDULE

- July 6th No Sale (4th of July Holiday)

JULY 13TH BACK TO REGULAR SCHEDULE

CONSIGNMENTS FOR WEDNESDAY, JULY 13:

- 40 bwf str/hfrs.....450-650 lbs.
- 40 Blk X Hfrs.....850-950 lbs.
- 60 mix Strs850-900 lbs.
- 120 Blk X Strs.....900-925 lbs.Pending
- PLUS MORE BY SALE DAY!

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CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

For the week of June 28, 2016:

No Sale Due to Harvest Schedule

UPCOMING SALE SCHEDULE

- CHANGE TO SCHEDULE:
JULY 5TH NO SALE DUE TO
4TH OF JULY HOLIDAY

JULY 12TH BACK TO REGULAR SALE SCHEDULE

Clay Center, Ks • Barn Phone 785-632-5566

Clay Center Field Representatives:

Tom Koch, 785-243-5124 Lance Lagasse, 785-262-1185

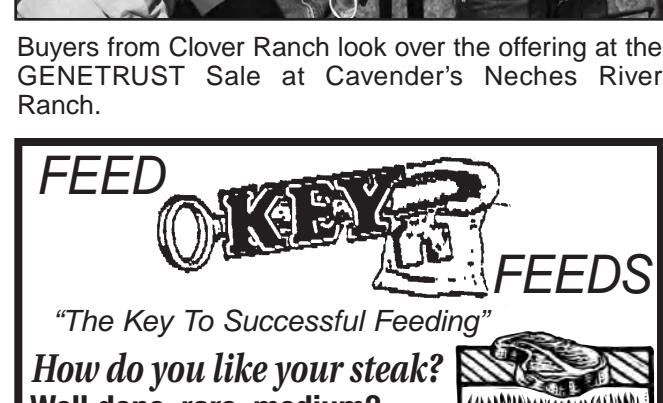
MITCH LANGVARDT
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Cell: 785-761-5814

LYNN LANGVARDT
785-762-2702
Cell: 785-761-5813



ASA lauds European Commission extension of glyphosate

The farmers of the American Soybean Association (ASA) welcomed news that the European Commission will re-examine authorization for the herbicide glyphosate for another 18 months. ASA president and Greenwood, Del., soybean farmer Richard Wilkins noted in a statement that the announcement comes as only temporary relief for American farmers searching for certainty in the European marketplace. Continued progress is needed, however. A logical and welcomed next step will be for the EU to finalize approval of the three pending biotech varieties. With that approval, our farmers can move forward with the certainty they need."



How do you like your steak? Well done, rare, medium? Everybody has a personal choice.

How about your livestock feed? Same deal, everybody's situation is different, and we do cater to what you need and want.

We will blend the supplements to complement your feedstuffs ... you name it, we can balance your ration.

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American Simmental-Simbrah Foundation announces fundraising drive

The American Simmental-Simbrah Foundation board begins a launch of a fundraising drive titled "Brand Yourself in Simmental History." The opportunity offers the ability to be included in the American Simmental Association's (ASA) newly built office building and landscaping. Several levels of sponsorship exist offering different recognition from naming the conference room, to receiving your ranch brand hanging in the building.

The first level of support offers two price levels: History Area Brand. Walk into the main foyer of the building and turning left, the history area of the ASA office looks out at the beautiful Montana scenery. This main attraction is a perfect place to have a ranch or personal name branded into a piece of weathered barn wood from the "old" office building. Two price levels exist at \$5,000 and \$1,000 options.

The most intriguing option is the opportunity to name the conference room, offered via a bid-off style. Bidders can visit simmental.org/foundation to bid for their opportunity to name or dedicate the ASA's conference and board meeting room. The first bid starts at \$20,000, but the highest bidder gets their opportunity to leave a mark.

For anyone looking for an outdoor theme, 22 donors can adopt a tree. The trees

line the driveway and entrance of the office building and will boast the name of the donor's choice for \$2,500. Three prime location trees exist at the front door of the building for \$5,000. Adopting a tree is offered on a first-come, first-serve basis, so those interested are encouraged to donate early.

All donations for the Foundation can be designated to one of three Foundation segments: youth, education or science. Donations

can also be specified for a specific event or project. Any person or business interested in "Branding Themselves into Simmental History" is encouraged to contact an American Simmental-Simbrah Foundation board member, found at www.simmental.org/foundation. Any questions about the fundraising drive can be directed to Director of Youth Emily Lochner at elochn@simmgene.com.

Founded in 1968, the American Simmental Association (ASA) is headquartered in Bozeman, Montana. ASA is committed to leveraging technology, education and collaboration to accelerate genetic profitability for the beef industry. In keeping with its commitment, ASA, along with its partners, formed International Genetic Solutions - the world's largest genetic evaluation of beef cattle.

Wheat Buyers Conference positions U.S. wheat as an exceptional value

U.S. Wheat Associates (USW) and nine state wheat commissions hosted 75 flour millers and other buyers at a Latin American and Caribbean Buyers Conference June 21 to 24, 2016, in Portland, Ore. USW President Alan Tracy said the information at the conference was specifically selected and timed to emphasize the excellent value of U.S. wheat for these buyers from 16 countries.

Tracy noted that several speakers at the conference focused on how current world market dynamics make U.S. wheat an attractive choice for importers. That is an important message because income from wheat is linked to export markets and the buyers in Latin America are taking 40 percent of all U.S. wheat exports with great potential for growth. He said these are markets that also buy on the basis of the quality characteristics U.S. wheat farmers produce every year.

At the conference, Kansas Wheat CEO Justin Gilpin gave an inside look at hard red winter wheat and the increasing investment in innovation that farmers are leading. He told the buyers that the quality of the new hard red winter crop is very good... the kind of

wheat you want in every grist, he said. Kansas farmers and farmers across the United States are leading the call for increased investment in wheat yield and functional quality. Gilpin said work at Heartland Plant Innovations, funded mostly by Kansas farmers, is already paying off for flour millers in new varieties with higher extraction rates.

Representing the Latin American marketing group from CHS Inc., Dan Barnard discussed how the current market gives hard red winter wheat exceptional value. Referring to the 75 cents per bushel premium in mid-2017 futures prices he told the buyers that they will have the best access to hard red winter at the least cost over the next three to four months.

According to USW Vice President of Operations Vince Peterson, there are more timeless reasons why a large conference like this is worth the investment and effort. He said USW has held a Latin American conference every other year for nearly 25 years. With these buyers all in one place, the industry can talk in person about the markets and about how U.S. wheat fits into their businesses and

that builds trusting relationships, Peterson said.

German Zapata, a wheat buyer from Colombia agreed that traveling to the conference gave him and his colleagues the opportunity to consider U.S. wheat in a very different way. Standing on an Oregon farm after the conference, Zapata said it was amazing to experience the whole process of wheat production and marketing, seeing the land and the technology farmers have, and how they work to produce the best quality wheat.

USW wants to thank Kansas Wheat for their participation and on-going support of export market development activities. Thanks goes also to these conference sponsors: Colorado Wheat Administrative Committee, Maryland Small Grains Utilization Board, Montana Wheat and Barley Committee, Nebraska Wheat Board, North Dakota Wheat Commission, Oregon Wheat Commission Texas Wheat Producers Board, Washington Grain Commission and the Foreign Agricultural Service of USDA.

To see presentation slides from all the speakers at the Latin American and Caribbean Buyers Conference, visit the USW website at <http://bit.ly/295mVY8>.



Cody Brown, Dwight exhibited Sull Diana 5139C, a daughter of C Miles McKee 2103, to the position of Grand Champion Heifer, at the recent Kansas Junior Hereford Show held in Abilene. Pictured with Brown is Judge Dustin Adherin, Garden City and the 2016 Kansas Hereford Queen Brianne Nelsen of Fredonia.



Brooke Jensen's KJ BJ 319X Tiffany 382C, an April daughter of CRR About Time 743, was selected as the Champion Bred and Owned heifer and the overall Reserve Champion heifer at the recent Kansas Junior Hereford Show held at Abilene. Pictured with Jensen of Courtland is Ben Jensen, Judge Dustin Adherin, Garden City, and the 2016 Kansas Hereford Queen Brianne Nelsen, Fredonia.

Holton Livestock Exchange, Inc.

1/2 mile East of Holton, KS on 16 Highway
Livestock Auction every Tuesday at 12 NOON
Serving the Midwest Livestock Industry for 64 Years!
****STARTING TIME: 12:00 NOON****

NO MARKET REPORT FOR TUESDAY, JUNE 28
DUE TO NO SALE!

- JULY 5--REGULAR WEEKLY AUCTION--12 NOON
- JULY 12--SPECIAL CALF & YEARLING AUCTION--12 NOON

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Barn Phone • 785-364-4114
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WASHINGTON COUNTY LIVESTOCK, LLC

Locally owned & operated

WASHINGTON, KS - PHONE 785-325-2243

Fax: 785-325-2244

Sale Every Monday at 1 PM

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

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

[View our live auctions at www.lmaauctions.com](http://www.lmaauctions.com)

Manager: Matt Kruse, 785-556-0715

Fieldman: Terry Ohle: 785-747-6554

View our website for current market report!

www.washingtoncountylivestock.com

EL DORADO LIVESTOCK AUCTION, INC.

316-320-3212

Fax: 316-320-7159

2595 SE Highway 54, P.O. Box 622,
El Dorado, KS 67042

Market Report - NO SALE JUNE 30

NEXT SALE: JULY 7th!

We welcome your consignments!

If you have cattle to consign or would like additional information, please call the office at 316-320-3212

Check our website for updated consignments:
www.eldoradolivestock.com

Chris Locke

(316) 320-1005 (H)

(316) 322-0675 (M)

Steven Hamlin

(602) 402-6008 (H)

(620) 222-1199 (M)

Larry Womack, Fieldman

(620) 394-3273 (H)

(620) 229-0076 (M)

Van Schmidt, Fieldman

(620) 367-2331 (H)

(620) 345-6879 (M)

Cattle Sale Every Thursday 11:00 AM

Missouri RAC meeting planned in Atchison

The Kansas Water Office's (KWO) Missouri Regional Advisory Committee (RAC) will hold a meeting to discuss current water issues affecting the region as well as the state. The meeting will be held Thursday, July 14, 2016, at 9 a.m. in the USD 409 Community Room, 626 Commercial in Atchison. The main focus of the meeting will be the development of an action plan to address surface water issues in the region.

The agenda and meeting materials will be available at www.kwo.org or you may request copies by calling (785) 296-3185 or toll-free at (888) KAN-WATER (526-9283).

If accommodations are needed for a person with disabilities, please notify the Kansas Water Office at 900 SW Jackson Street, Suite 404, Topeka, KS 66611-1249 or call (785) 296-3185 at least five working days prior to the meeting.

AUCTION

WEDNESDAY, JULY 6 — 5:30 PM
739 Dehoff Lane — MANHATTAN, KANSAS

Toro Push mower w/bagger, Generac 7500E generator less than 10hrs, (New) never installed Hot tub, newer Snow blower, Step ladder, bicycles, coolers, Totes, leaf blower, Gas weed trimmers, Hand tools, Drills, shop-vac, Upright freezer, Air bubble, gas cans, Ridgid and Makita power tools, Miter saw, player piano w/music rolls, patio set, windmill, weather vane, electric handicap scooter, night stand, pink pedal car, punching bag, hose reel, dresser, daybed, queen comforter set, bar stools, leather chair & sofa, projection TV, **MUCH MORE. (VERY CLEAN AUCTION).**

SELLER: DIANNA PHILLIPPI

TERMS: Cash or Good Check. Announcements made day of sale take precedence over previous printed material. Auction company and seller not responsible for accidents.

RUCKERT REALTY & AUCTION

Jeff Ruckert, Auctioneer/Broker
Manhattan, KS 66502
785-565-8293
jctt.97@gmail.com

www.RuckertAuctions.com

Eureka Livestock Sale

P.O. Box 267 Eureka, KS 67045

620-583-5008 Office 620-583-7475

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

No Sale To Report For June 30th

EARLY CONSIGNMENTS FOR JULY 7

- 150 Bwf CharX strts & hfrs, 500-700 lbs
- 120 mostly blk strts, 800-925 lbs
- 40 bwf strts & hfrs, 500-650 lbs
- 70 mixed strts & hfrs, 700-900 lbs (hfrs open)
- 40 bwf cows, 4-10 yr old fall calvers bred to Angus bull, complete dispersal
- 100 packer cows

We appreciate your business!

Ron Ervin - Owner-Manager

Home Phone - 620-583-5385

Mobile Cell 620-750-0123

Austin Evenson- Fieldman

Mobile Cell 620-750-0222

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

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WELCOME TO G&G — A RURAL NEWSWEEKLY

Grass & Grain, a farmers' newsweekly, has been published in Manhattan, Kansas for nearly 60 years.

The G&G community looks to the Tuesday publication for timely, accurate information.

Upper Arkansas Regional Advisory Committee to meet in Garden City

The Kansas Water Office's (KWO) Upper Arkansas Regional Advisory Committee (RAC) will hold a meeting to discuss current water issues affecting the basin as well as the state.

The meeting will be held Thursday, July 14, 9:30 a.m. in the Lee Richardson Zoo, Finnup Center, 312 E. Finnup Drive, Garden City, Kansas. The focus will be the continued development of the Regional Action items.

The Chief Engineer will also be present to discuss streamflow and how it relates to Kansas' compact with Colorado.

The agenda and meeting materials will be available at www.kwo.org or you may request copies by calling (785) 296-3185 or toll-free at (888) KAN-WATER (526-9283).

If accommodations are needed for a person with disabilities, please notify the Kansas Water Office at 900 SW Jackson Street, Suite 404, Topeka, KS 66611-1249 or call (785) 296-3185 at least five working days prior to the meeting.

Grass & Grain Weather Report

Seven Day Forecast

	TUESDAY	Mostly Sunny
		High: 90 Low: 72
	WEDNESDAY	Mostly Sunny
		High: 94 Low: 73
	THURSDAY	Sunny
		High: 97 Low: 71
	FRIDAY	Sunny
		High: 98 Low: 74
	SATURDAY	Sunny
		High: 96 Low: 72
	SUNDAY	Mostly Sunny
		High: 93 Low: 71
	MONDAY	Partly Cloudy
		High: 89 Low: 68

In-Depth Local Forecast

Today we will see mostly sunny skies with a slight chance of showers and thunderstorms, high temperature of 90°, humidity of 62%. The record high temperature for today is 105° set in 1933. Expect partly cloudy skies tonight with a slight chance of showers and thunderstorms.

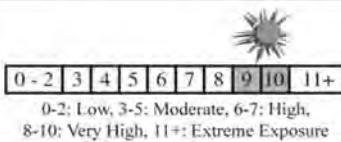
Last Week's Almanac

Date	Hi/Low	Normals	Precip
6/23	93/71	89/64	0.00"
6/24	88/68	89/65	0.05"
6/25	100/77	90/65	0.00"
6/26	88/71	90/65	0.00"
6/27	97/64	90/65	0.03"
6/28	88/65	90/65	0.95"
6/29	88/68	90/66	0.00"

This Week's Sun & Moon Chart

First 7/11	Day	Sunrise	Sunset	Moonrise	Moonset	Last 7/26
	Tuesday	6:06 a.m.	8:55 p.m.	7:29 a.m.	9:51 p.m.	
	Wednesday	6:07 a.m.	8:55 p.m.	8:32 a.m.	10:32 p.m.	
	Thursday	6:07 a.m.	8:54 p.m.	9:34 a.m.	11:09 p.m.	
	Friday	6:08 a.m.	8:54 p.m.	10:34 a.m.	11:42 p.m.	
	Saturday	6:09 a.m.	8:54 p.m.	11:33 a.m.	12:42 a.m.	
	Sunday	6:09 a.m.	8:53 p.m.	12:30 p.m.	1:24 a.m.	
	Monday	6:10 a.m.	8:53 p.m.	1:26 p.m.	12:44 a.m.	

Local UV Index



Weather History

July 5, 1937 - The temperature at Medicine Lake, Mont. soared to 117 degrees to establish a state record. Midale and Yellow Grass in Saskatchewan hit 113 degrees to establish an all-time record high for Canada that same day.

Growing Degree Days

Date	Degree Days	Date	Degree Days
6/23	32	6/27	30
6/24	28	6/28	26
6/25	38	6/29	28
6/26	30		

St. Marys Tuesdays

Sell
Or Buy

Sell At St. Marys
By Auction

STARTING TIME
10:30 AM

We sold 645 cattle June 28. Steer and heifer calves sold at steady prices. Feeder steers and heifers were \$2.00-7.00 higher. Cows and bulls were steady.

STEER & BULL CALVES	59 blk/char str	903 @ 141.25	5 blk hfrs	678 @ 134.75	BRED COWS & HEIFERS
1 red str	335 @ 180.00	5 blk/bwf str	777 @ 140.75	14 blk/char hfrs	722 @ 132.50
5 blk str	467 @ 175.00	107 mix str	919 @ 134.10	2 mix hfrs	793 @ 131.10
1 bnf str	315 @ 172.00	10 mix str	893 @ 133.50	3 blk hfrs	587 @ 130.00
2 blfred str	365 @ 171.00			5 blk/bwf hfrs	596 @ 128.00
3 red str/bulls	368 @ 170.00	3 blk/bwf hfrs	403 @ 167.00	7 blk/char hfrs	673 @ 128.00
1 red bull	260 @ 166.00	2 blk hfrs	423 @ 163.00	2 blk hfrs	798 @ 120.00
1 blk str	350 @ 165.00	7 red hfrs	431 @ 157.00	3 x-bred hfrs	842 @ 116.00
1 blk str	420 @ 160.00	2 blk hfrs	308 @ 156.00	COWS & HEIFERETTES	1 red cow
11 blk/char str	526 @ 155.50	3 red hfrs	370 @ 155.00	1 blk hfrt	1115 @ 108.00
3 blk str	498 @ 155.00	3 blk/char hfrs	333 @ 150.00	1 blk hfrt	1315 @ 94.00
3 red bulls	482 @ 154.00	4 x-bred hfrs	394 @ 149.00	1 blk hfrt	1190 @ 86.00
1 blk str	510 @ 145.00	3 blk hfrs	547 @ 142.50	1 sim cow	1155 @ 84.50
2 red bulls	533 @ 143.00	2 blk/sim hfrs	463 @ 142.00	1 sim cow	1205 @ 84.00
STOCKER & FEEDER STEERS	560 @ 158.00	9 char hfrs	505 @ 137.00	1 sim cow	1560 @ 80.50
60 blk/bwf str	906 @ 145.75	4 blk hfrs	481 @ 135.00	1 gelb cow	1420 @ 79.50
62 mix str	873 @ 145.00	3 blk/char hfrs	525 @ 132.50	1 blk cow	1200 @ 79.00
3 blk/bwf str	750 @ 144.50	67 mix hfrs	771 @ 136.50	1 blk cow	990 @ 78.00
5 blk/bwf str	741 @ 142.75	64 mix hfrs	792 @ 136.10	1 hol cow	1265 @ 74.50
5 blk str	768 @ 142.00			1525 @ 69.50	

BULLS

1 blk cow	@ 1450.00
1 blk owl	@ 1200.00
1 blk cow	@ 1100.00
1 bnf cow	@ 1025.00
1 x-bred cow	@ 1000.00
1 blk cow	@ 1000.00
1 blk hfr	@ 1000.00
1 red cow	@ 900.00
1 jers cow	@ 900.00

CONSIGNMENTS FOR JULY 5:

- 43 blk str & hfrs, 550-650 lbs., weaned, vacc.
 - 100 black heifers, 750-800 lbs., off bromo
 - 90 black steers, 700-750 lbs., off grass
 - 45 black steers, 825-850 lbs., off bromo
 - 185 blk str, 800-900 lbs., Northern origin, off grass
 - 62 black steers, 825-850 lbs., off grass
 - 60 black Char steers, 875-900 lbs., off grass
 - 64 black heifers, 775-800 lbs.
 - 60 blk str, 875-900 lbs., Northern origin
 - 61 black crossbred steers, 900-925 lbs.
 - 100 black Char steers, 925-950 lbs.
- PLUS MORE BY SALE TIME!

CONSIGNMENTS FOR JULY 12:

- 120 black steers, 875-900 lbs., off grass
 - 120 black Char steers, 850-875 lbs., off grass
- PLUS MORE BY SALE TIME!

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

FOR INFORMATION OR ESTIMATES:

REZAC BARNST. MARYS, 785-437-2785

DENNIS REZACST. MARYS, 785-437-6349

DENNIS' CELL PHONE785-456-4187

KENNETH REZACST. MARYS 785-458-9071

LELAND BAILEY ...TOPEKA, 785-286-1107

LYNN REZACST. MARYS, 785-456-4943

REX ARBMELVERN, 785-224-6765

Website: www.rezaclivestock.com

AUCTIONEERS: DENNIS REZAC & REX ARB

Toll Free Number.....1-800-531-1676

Rezac

Livestock Commission
Company, Inc.
St. Marys, Ks.

Buhler FFA member elected as Kansas FFA reporter

Jacob Grinstead from the Buhler FFA chapter was elected to serve as the 2016-17 state FFA reporter at the 88th Kansas F