

Schwieterman Market Outlook

A marketing commentary by Bret Crotts

Grain markets have been preforming well so far this year despite the government shutdown and lack of statistical data from USDA. USDA did make it official that the three reports due out on January 11th will be delayed until the government reopens, so we really have no idea when we might get the data. The news supporting the markets has ranged from less than perfect weather in S. America, to solid demand news, to optimism about trade relations with China.

The March corn made it back above the 50-day moving average and the market looks like it will be testing the upper end of the recent range at the \$3.88-\$3.90 area soon. That will be the big test for the corn market, since that area has killed the market many times in the past few months. A close above \$3.90 would hopefully, finally, open the door to a move up to \$4.05, and perhaps \$4.35, at some point down the road. It would certainly help if the final crop report showed lower production again, but of course, we have no idea when we will get the report.

The March KW stalled out right at the 50-day moving average Friday, so our critical resistance is quite clear. Without the Winter Wheat Seedings Report, we won't get confirmation that Kansas wheat acreage is at a 100+ year low, and without export sales reports

we have no idea if having the cheapest wheat in the world is attracting any business. We have seen some basis levels improve, which could be an indication of demand, but we are really flying blind right now.

Soybeans probably have the most concrete fundamental information right now with dry weather causing production concerns in Brazil and wet weather concerns causing issues in Argentina. For months we heard that Brazil would have a record crop, but that does not appear to be the case any longer, which is certainly helpful. We are, however, still in the dark about the Chinese. We are told that the Chinese are buying US soybeans, but without the export reports, we cannot tell for

sure how much business is being done. When we finally get the next supply and demand tables they will likely look much, much different than in the November report, which has the bears nervous.

The cattle market kind of rolled over this week, which was disappointing. \$123 cash trade wasn't all bad, but it seemed that feedlots were in a hurry to get cattle sold because of poor feeding conditions and nobody was in a big hurry to buy feeder cattle for the same reasons. On the positive side, open interest is climbing in the live cattle, because it seems that the big money out there wants to own cattle, which usually isn't bad for prices. Packer margins are still huge, which means they can give more if they have to, and demand for meat is excellent, so there is no difficulty moving product.

Be on the lookout for more stories on African Swine Fever, because further spreading of that disease will be supportive to both cattle and hogs.

The other market on everyone's mind is the stock market. Judging by risk of loss in trading com-

the charts, the equities have probably bottomed out for a while. I would plan on the S&P being back at 2800 and the Dow at 26,000 soon. A lot of fundamental data looks good right now, which should allow the stocks to retest the highs. Trade relations with China and politics here in the US will determine if we make new all-time highs in 2019 or not.

Schwieterman Marketing, L.L.C. specializes in risk management and cash grain and livestock marketing plans. For information on the markets or our marketing service you can contact Bret Crotts at 888-437-9131 or bret@swbell.net.

The information contained herein is based on data obtained from recognized statistical services and other sources believed to be reliable. However, we have not verified such information and we do not make any representations as to the accuracy or completeness. Past results are not necessarily indicative of future results. All statements contained herein are current opinions, which are subject to change. The

modity future contracts is substantial. You should therefore carefully consider whether such trading is suitable for you in light of your financial condition. Neither the information, nor any opinion expressed shall be construed as an offer to buy or sell any futures or options on futures contracts.

Trade news: CPTPP moves forward; trade talks with China scheduled

The Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) went into effect for six of its 11 members on Dec. 30 and gave major U.S. beef competitors preferential access to the Japanese market.

In a statement to CNBC, NCBA President Kevin Kester explained that "the U.S. beef industry is at risk of losing significant market share in Japan unless immediate action is taken to level the playing field."

Regarding China, a U.S. government delegation will travel to Beijing next week to hold trade talks with Chinese officials, Bloomberg reports. The meeting will be the first face-to-face discussion the two sides have held since President Trump and China's Zi Jinping agreed on a 90-day truce in December - signaling what could be progress that the two countries are cooling trade tensions.

SATURDAY, FEBRUARY 16, 2019 — 10:00 AM ★ DICKINSON & CLAY COUNTY ★ Waterville Community Center — WATERVILLE, KANSAS FARMLAND AUCTION 391.3 AC.± MARSHALL COUNTY LAND SOLD IN 3 TRACTS (T1 238.41 AC.; T2 36.54 AC.; T3 48.47 AC) THURSDAY, FEBRUARY 28, 2019 - 7:00 PM Producers, Ranchers & Recreational Buyers ... Don't miss your opportunity to add Little Blue River Bottom acres, quality dry Held at ABILENE CIVIC CENTER, 201 NW 2nd Street - ABILENE, KANSAS land acres, clean northern Flint Hills pasture, or a nice recreational tract for hunting Whitetail & Turkeys. ** 560 ACRES M/L FARMLAND ** FREIDA NIEMEIER TRUST, SELLER Watch upcoming issues of Grass & Grain for complete details. Watch upcoming Grass & Grain's for more details For a VIRTUAL TOUR of this property visit www.MidwestLandandHome.com 1 LISTING AGENT: Dan Reynolds 785-263-7151 To stay up to date on auctions and listings LIKE our 888-263-7151 **SELLER**: 785-479-0203 Facebook page Midwest Land and Home AUCTIONEER: NEADERHISER R.J. Reynolds: 785-263-5627 Midwest Land Reynolds REVOCABLE and Home BROKER: John Kollhoff AUCTION CO TRUST www.rrehomes.com and click on the auction link www.MidwestLandandHome.com or www.kansasauctions.net When you want the Best, Call Midwest CATTLE AUCTION COMM. 0. INC. **STARTING 10:00 A.M. ON WEIGH COWS** 1-800-834-1029 FOLLOWED BY STOCKER FEEDERS — 11:00 A.M. **Toll-Free**

OFFICE PHONE 785-776-4815 • OWNERS MERVIN SEXTON & JOHN CLINE



	ale of 2013,	ngin weigin		13 — 330-0		St. George T Dik 1455@40.00 Dialite T C1055 1205@45.00
steers and heit	fers were in	short supply	Topeka	11 red Ang	g 559@147.00	Corning 1 blk 1505@47.00 Onaga 1 blk 1185@43.00
and were find	ing good bເ	uyer interest.	Onaga	33 blk	608@145.00	Leonardville 1 blk 1480@44.00 Mayetta 1 blk 1345@42.00
Heavy calves	and feeder	cattle were	Green	6 blk	568@143.00	-
selling on a w	eaker trend	compared to	Clay Center	17 Ang	590@142.00	EARLY CONSIGNMENTS FOR JAN. 11, 2019:
the market bef			Riley	4 blk	571@141.50	
and bulls sold			Council Grove	22 blk	636@141.50	• 224 blk strs & hfrs, long weaned, 2 rds shots, bunk broke, 500-650 lbs.
big fancy bred			Alma	7 blk	726@138.50	• 22 blk strs & hfrs, long weaned, 2 rds shots, bunk broke, 450-500 lbs.
good interest.		J	Frankfort	69 blk	658@138.25	• 38 blk strs & hfrs, long weaned, 2 rds shots, bunk broke, 700-800 lbs.
	LVES — 400	-550 LBS	Wheaton	24 blk	746@138.25	• 42 blk bwf strs & hfrs, 2 complete rds shots, weaned 60 days, 550-650 lbs.
McClouth	6 blk	393@196.00	Minneapolis	7 bwf	738@138.00	• 82 blk strs & hfrs, 2 rds shots plus respiratory, weaned 60 days, 550-700 lbs.
Olathe	17 blk	513@186.50	Green	6 red Ang	578@137.50	• 150 Choice reputation SimmAngus strs & hfrs weaned Nov 1, 1 complete rd shots,
Corning	5 blk	530@182.00	Olathe	7 blk	622@137.00	550-850 lbs
McLouth	6 blk	505@181.00	Hanover	22 Cross	670@136.50	• 80 blk strs & hfrs, Lyons & Fink genetics, 550-700 lbs.
Green	11 Cross	485@180.00	Blaine	4 blk	573@136.00	 • 76 blk bwf strs & hfrs, shots, weaned Nov. 20, 525-600 lbs. • 41 blk strs & hfrs, weaned 45 days, bunk broke, vaccinated, 600-700 lbs.
	S — 550-900		Riley	7 blk	691@135.00	
	4 blk	550@183.00		6 blk	711@134.00	• 48 Hinkson & Dalebanks sired blk strs & hfrs, weaned 90 days, 2 rds shots, 600-750 lbs.
Alma Council Grove	4 blk 5 blk	579@168.00	Linn Frankfort	38 Cross	799@132.25	 64 choice blk strs & hfrs, electric & bunk broke, weaned 90 days, 2 rds shots, 500- 600 lbs.
						• 39 Angus strs & hfrs, long weaned, 1 rds shots, 600-750 lbs.
Topeka Mal auth	7 red Ang	574@167.00	Linn	21 blk	816@132.00	- 00 milyuo olio a iiio, iony wealieu, i iuo silolo, 000-100 luo.
McLouth	11 blk	553@167.00	Council Grove	9 Cross	780@131.50	
Olathe	27 blk	603@166.00	Riley	5 blk	602@131.50	SPECIAL STOCK COW &
Green	16 Cross	603@163.25	Circleville	5 blk	599@129.50	
Hanover	8 blk	581@160.00	Blaine	12 bwf	685@127.25	BRED HEIFER SALE
Axtell	9 Cross	641@156.50		— 1,200-2,3		
McLouth	13 blk	652@154.00	Elmdale	1 blk	2000@77.00	WED., JAN. 16 • STARTING 11:00 AM
Linn	17 blk	686@153.25	Randolph	1 blk	1960@72.50	
Oskaloosa	8 Cross	671@150.00	Elmdale	1 blk	2155@72.00	BRED 1st CALF HEIFERS:
Wheaton	7 blk	711@149.50	Randolph	1 blk	1210@71.00	• 25 blk 1st calf OCV hfrs, bred Dash Sitz bull, to calve Feb. 7 for 60 day calving
Hanover	28 Cross	696@148.75	Marysville	1 blk	2310@71.00	period.
Riley	4 blk	640@148.75	Marysville	1 blk	1885@67.00	• 45 Red Angus 1st calf (OCV) – 1050-1100 lbs – all one brand – hfrs bred to
Council Grove	21 blk	716@147.75	Council Grove	1 blk	1820@66.50	LBW Mushrush red Angus bulls, to start calving Feb. 20 for a 45 day calving
Frankfort	37 blk	747@146.50	Valley Falls	1 Heref	2350@63.00	period.
Wheaton	32 blk	837@144.85	E	BRED COWS	5	• 20 Red Angus Montana Origin 1st Calf Hfrs, Al bred to Red Angus Montana
Hanover	30 blk	818@144.50		AGE	BRED	Origin bull, cleaned up Red Angus bull for Feb calving
Minneapolis	6 blk	705@144.00	Wakefield 15	5 blk 2	7-8 @1810.00	• 35 big fancy home raised OCV Angus 1st calf hfrs, Final Answer genetics. Al
Green	4 blk	702@142.00	Wakefield 15	5 blk 2	7-8 @1750.00	bred to Barretts Walt (high calving ease Angus bull, 5522 son) for Feb. 1 calv-
Linn	42 Cross	823@141.35		blk 2	7-8 @1650.00	ing. Cleaned up with same genetics Angus bulls for 45 days. All shots includ-
Frankfort	59 Cross	884@141.20	COWS & HEIFE			ing 1st rd Scourguard.
Wetmore		567@141.00	Clay Center	2 bwf	970@127.00	• 8 Choice reputation home raised Angus 1st calf hfrs, 6 Al'd safe in calf to Gardiners Sure Fire, balance cleaned up calving ease Angus bull for FebMar.
Axtell	5 Cross	801@140.50	Paxico	1 blk	1010@84.00	calving.
Circleville	7 blk	656@140.00	Onaga	1 blk	1260@78.50	• 5 choice big fancy Angus 1st calf hfrs, bred Angus to calve March.
Minneapolis	11 blk	791@139.75	Paxico	1 blk	1135@69.00	BRED COWS:
Council Grove	4 blk	832@138.50	Onaga	1 blk	1825@61.50	• 2 blk cows 3-6 yrs, bred Angus or Char for JanFeb. calves.
Wetmore	16 Heref	656@138.00	Onaga	1 blk	1490@60.00	• 2 older Angus cows bred Angus for FebMar. calving.
St. George	6 blk	682@135.25	Onaga	1 blk	1670@59.50	PAIRS:
Green	4 blk	730@133.50	Waterville		1480@58.50	• 9 blk cows, 6 yrs & older w/SeptOct. calves by side.
		5-550 LBS	Council Grove	1 blk 1 blk		• 10 blk cows 3-6 yrs old w/ 30 day blk calves by side.
HEIFER CA				1 blk	1685@55.00	• 35 Blk, BWF cows 5-7 yrs w/ big Angus & BWF Sept & Oct calves by side.
Olathe Mol. outb	5 blk	417@163.00	Onaga	1 blk	1430@54.50	Cows exposed to Blk Simm bull (Son of Upgrade) since Nov 1. Cows & calves
McLouth	7 blk	439@161.00	Onaga	1 blk	1420@53.50	all worked.
Olathe	32 blk	526@156.50	Perry	1 blk	1760@53.50	
McLouth	14 blk	500@151.00	Waterville	1 Cross	1450@52.00	
Hanover	11 blk	533@149.00	Paxico	1 blk	1230@51.00	EARLY CONSIGNMENTS FOR JAN. 18, 2019:
Onaga	5 blk	502@146.00	Onaga	1 bwf	1565@50.50	• 36 blk & bwf strs & hfrs, weaned 50 days, 2 complete rds shots, 550-700 lbs.
McLouth	5 blk	539@143.50	Onaga	1 blk	1575@48.00	
				-		

Grass & Grain, January 8, 2019

Upcoming Special Stock Cow & Bred Heifer Sale Dates • Wednesday's starting at 11:00 AM 2019; January 16 • February 20 • March 20 • April 10 • May 1

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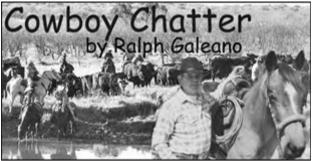
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Turn Them Loose

If you have to continually hang on to your reins in a tug of war with your horse to hold him back, you may have unknowingly caused that problem.

The more you pull, the more the horse resists and it only gets worse. Perhaps you have always ridden with a tight rein. That puts undue pressure on the bars of a horse's mouth. That's one of the places a bit does its work. Over time, constant pressure on the bars hardens them and they become less sensitive to pressure from the bit.

The result is the horse becomes accustomed to that pressure and as his bars harden from the constant pressure, he doesn't

K-State Swine Profitability conference set for Feb. 5

Kansas State University's 2019 Swine Profitability Conference is planned for Tuesday, Feb. 5 at the Stanley Stout Center in Manhattan.

The conference focuses on the business side of pork production.

"Attendees will have a chance to learn ideas for improving their businesses from leading producers, veterinarians and economists," said Mike Tokach, University Distinguished Professor in the Department of Animal Sciences and Industry and swine Extension specialist. "This conference is designed to help producers stay competitive in today's swine industry.

The conference will feature speakers from an array of swine-related businesses and organizations, including:

Lee Schulz, Iowa State University agricultural economist, who will address international trade and market outlook

Clayton Johnson, Carthage Veterinary Service, who will discuss the growth of the Carthage System in Kansas

Grant Morgan, Poky Feeders, who will share his story of raising pigs and cattle in the High Plains

Noel Williams, the Chief Operating Officer of Iowa Select Farms, who will focus on how to achieve high production in swine dense areas

Bill Even, the Chief Executive Officer of the National Pork Board, who will talk about the bright future of the U.S. swine industry.

We feel the speakers for the 30th Annual Profitability Conference are industry leaders who will share take-home information for swine producers and allied industry partners alike," said Joel DeRouchey, K-State Extension swine specialist.

The Stanley Stout Center is located at 2200 Denison Avenue. The day begins with coffee and donuts at 9:15 a.m. and the program at 9:30 a.m. Lunch is included in the conference, which will end at 3 p.m.

Pre-registration is \$25 per participant and due by Jan. 26. Attendees can register at the door for \$50 per participant. More information, including online registration, is available at KSUSwine.org, or contact Lois Schreiner at 785-532-1267 or lschrein@ksu.edu.



feel the bit doing the job. That's what's called a hard-mouth horse. If he's got any spirit at all, he can resist the bit and it won't hurt him when you pull back on the reins to slow him down. So, he ignores the pressure and wants to speed up while you keep pulling back in that tug of war.

It's no fun to ride a horse you have to continually hold back with a lot of pressure. Some horses are worse than others but there are a few things you can do to cure the problem.

It may take a lot of time to convince your horse he doesn't have to prance and dance and want to speed up when you only want him to walk, jog, trot or lope at your pace, not his.

Take the horse outside in open country and start walking him or her. Have a set destination in mind going away from the home place. Keep a loose rein. As soon as the horse starts to speed up, instead of pulling back on both reins. use one rein and pull him around in a tight circle. Keep him circling until he returns to a walk. It might take two or three circles or maybe even ten. Don't let him out of the circle until he returns to a walk. The second he drops back to a walk, return to your straight line course toward your destination and slack the reins.

When he tries to speed up again, do the same thing, pull him into a circle until he drops back to a walk. Horses that have been soured or have never had sound training will continually speed up as soon as you turn them loose from the circle. Tight circles are a lot harder to do than walking in a straight line.

Here's where you have to make up your mind to stick with this maneuver for as long as it takes your mount to realize that as long as he walks and doesn't try to be Speedy Gonzalez, you won't pull him into an uncomfortable circle. It might even occur to him you are not pulling on the reins causing discomfort to the bars of his mouth when he simply walks and doesn't try to run off.

Your goal is to try and make the horse realize he doesn't have to fight the bit and it is easier to walk than to wear himself out trying to go faster.

It may take one session and one day but it could take multiple sessions and weeks to accomplish a loose rein with no restraint for your horse to walk along without a fight. You have to be patient and keep at it. When you begin to see progress, you may find the horse will occasionally speed up again. Come back to basics and every time that happens, turn him in a circle and you'll find those times will occur less and less. Eventually you will be able to ride along with a loose rein and enjoy being horseback.

Perhaps your horse walks and trots okay but has a problem wanting to run when you break into a lope or gallop.

If you have an arena or large corral, preferably with board fencing and not wire, that's a good place to try to change his ways. You don't want to do this in the open country. You need to be in a safe, enclosed area. I don't recommend this if you are not an experienced rider or if your horse is dangerous. You have to be able to control your horse.

Put your horse into a

bit and wants to go faster, let him. Give him a loose rein and let him go. Circle the arena and let him go as fast as he wants as long as you have control of his direction and are comfortable with his speed. Let him run until he tires and starts to slow down on his own. If he tires but doesn't slow down, pull back slightly on the reins to let him know it's okay to slow down. We are not doing this to hurt the horse. So use your good judgment to keep the horse and yourself safe. He might think you want him to run and vou have to let him know what you want.

Only let him run once or twice during a session and do it on different days until he realizes he doesn't have to run but only has to move at the speed you instruct him and will lope or gallop at that speed with a loose rein.

Once he realizes he doesn't have to run till his tongue is hanging out, you'll have a horse that will lope comfortably at your speed without a fight.

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

lope and if he pulls on the

Ag tech conference announces line-up of precision ag speakers for Jan. 17-18

The Kansas Ag Research and Technology Association (KARTA) and K-State Research and Extension are proud to announce the line-up of speakers for the 22nd Annual Kansas Ag Tech Conference, taking place January 17-18, 2019 in Junction City. The annual two-day event is popular among precision ag producers, applicators, and industry brands because of its unique format that creates lively discussions among the most efficiency-conscious farmers in the state of Kansas. Presentations at this year's conference include:

Savannah Crossman - Soybean Growers Association & Advanced Ag Alliance

"Variable Rate Corn Seeding, Lessons Learned & Future Visions"

Justin Heath - Smart Ag

"It Has Arrived: Farm-Ready Autonomous Tractor Technology"

Ajay Sharda - Kansas State University Agricultural Engineering

"Planter Down-Force Systems: Engineering and Agronomic Considerations"

Kevin Heikes - IN10T

"Farmer Centered Innovations - The Solution to Better Innovation and Faster Adoption"

Bruce Erickson - Purdue University

"Precision Ag Technology Adoption - Looking Back, Looking Forward"

Joe Luck - University of Nebraska

"Multi-Hybrid Planting: Lessons From On-Farm Tri-

K-State Soybean Production Schools scheduled for January Contact: Stacy Camp-

A series of nine Kansas State University Soybean Production schools will be offered in mid- to late January 2019 to provide indepth training for sovbean producers and key stakeholders. The schools are sponsored by the Kansas Soybean Commission.

As soybean acreage is

producers in eastern, central, and western Kansas. Each school will feature a selection of the following topics: weed control, crop production, soil fertility and nutrient management, insect control, irrigation, disease management, and market outlook.

The locations and dates

als - What Works and Will it Pay?"

More information and bios for each of the speakers can be found on KARTA's website at www.KARTAonline. org. The conference will also include a rapid-fire Q&A with members of the K-State faculty and presentations from KARTA's recent grant recipients as they present findings from their on-farm research trials. Industry partners will also be there to exhibit and provide updates on the latest ag technology in the private sector.

'I've been attending the conference for over a decade, and have been on the Board of Directors for KARTA for much of that time. This event is popular because only KARTA provides a balance of academic and industry ag tech information, but in a casual environment that facilitates more interaction and more camaraderie," says Tyler Rider of Ness City. "We also provide a subsidized student rate that connects the future of our industry and brings new ideas and new life into the conversation."

Funds generated through KARTA's association dues and conference registrations are used to provide on-farm research grants and instructional workshops throughout the year. Registration for the two-day conference is \$275 including all meals and refreshments for both days. Guests can also take advantage of a \$50 discount on their conference admission if they purchase a 2019 KARTA membership during checkout. For more information or to get signed up, visit www.KARTAonline.org. And be sure to follow KARTA on Facebook and Twitter. This year's event hashtag is #KARTA2019.

Paola - 8:30 a.m. to 1:00 p.m. Miami County Fairgrounds, Building 2, 401

Wallace Park Dr. Contact: Katelyn Bar-

thol, kbarth25@ksu.edu)

Holton - 3:00 to 7:00 p.m. Northeast Kansas Heritage Complex, 12200 214th

Beloit - 8:30 a.m. to 1:00 p.m. NC Kansas Technical

January 28 – Monday

bell, scampbel@ksu.edu

College Conference Room, 3033 U.S. Hwy 24 Contact: Sandra Wick,

swick@ksu.edu Registration for each

school will be the first 30

minutes of each agenda

courtesy of Kansas Soy-

bean. There is no cost to at-

tend, but participants are

asked to pre-register one

week prior to the school

they wish to attend. Online

registration is available at

K-State Sovbean Schools

(http://bit.ly/KSUSoybean)

or by emailing or calling

the nearest local K-State

Research and Extension

office for the location par-

contact: Kathy Gehl, exten-

sion agronomy program co-

ordinator, kgehl@ksu.edu,

785-532-3354; Ignacio Cia-

mpitti, K-State crop pro-

duction and cropping sys-

tems specialist, ciampitti@

ksu.edu, or Stu Duncan,

K-State northeast area

agronomist, sduncan@ksu.

edu, 785-532-5833

For more information,

ticipants plan to attend.

Lunch will be provided,

listed above

refrigerator; floor lamps; end tables; glass top metal coffee table; sofa table; 2 cane back occ. chairs; Walnut china cabinet; sm. student writing desk; camel back trunk; single bed w/frame; wingback occ. chair; table lamps. **GLASSWARE & COLLECTIBLES:** 2 gal. Red Wing crock; 1 gal. stoneware crock; Atwood Castle Co. Coach Light; pr. of spurs w/Mexican rowel & chap guard; Boyd's Bear collection figurines; Mikasa serving bowl & plate; cherry pitter; postcards; Lef-ton angels; green Dep. glass sherbets; Cold-Mate elec. cooler; 2 pink glass footed bowls. EQUIP., TOOLS & MISC .: Christmas decor; doilies & fancywork; cookbooks; spoon collection w/hanger; pictures 8 frames; wooden ironing board; MANY MORE BOXES TO UNPACK.

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& a 24'x40' manufactured home. Property will be sold in two (2) tracts and will not be combined.





TRACT 1: 18 acres M/L of brome with nice pond. 25'x50' barn with 2'x50' lean-to, metal pens, and a newly drilled well. Property would be great for a horse enthusiast or other livestock practices. Hay or

graze. Tract in 10-12-10 Wabaunsee County, Kansas TRACT 2: Manufactured home at 815 Nebraska Street, Alma, Kansas. The 24'x40' home has been extensively remodeled with new plumbing, electrical and has a carport adjoining. Very attractive setting. The home is on city utilities.

Auctioneer's Notes: These are extremely desirable properties with numerous opportunities. The two (2) tracts, although not offered in combination, could be purchased separately to form a nice package as the home is nearby the barn and pens. This is what a lot of people are looking for. Don't miss this opportunity!

Terms: 10% earnest money the day of the auction with the remainder at closing on or before February 27, 2019. Title insurance and escrow fees to be shared equally. The sale is not contingent on financing and all nspections should be conducted prior to the auction at bidder's expense. Murray Auction & Realty is acting as an agent for the Seller. All information obtained from sources deemed to be reliable, but not guaranteed. State ments made day of auction take precedence over printed material.



MURRAY AUCTION & REALTY Steve Murray, Broker/Auctioneer • 785-556-4354 www.murrayauctionandrealty.com

increasing in the central and western areas of the state, several more schools are now available to Kansas producers this year. The nine schools represent a threefold increase compared to recent years.

"Having more schools will allow for targeted programs at each location, depending on the varied production issues specific to each region; a real asset for these difficult farming times," said Ignacio Ciampitti, K-State soybean specialist.

The half-day schools will cover issues facing for the nine schools are:

January 15 – Tuesday Wichita - 8:30 a.m. to 1:00 p.m.

Sedgwick County Extension Education Center, 7001 W. 21st St. North

Contact: Jackie Fees, jfees@ksu.edu

Parsons - 3:00 to 7:00 p.m.

Southeast Research and Extension Center, 25092 Ness Rd.

Contact: James Coover. icoover@ksu.edu

January 16 - Wednesday



ocally known as the Hawthorne Pastures

LEGAL DESCRIPTION: Tract 1 - SE¼ of 10-16-8 plus 5 acres in SW¼ of 10-16-7 for 164+/- acres; **Tract 2** – E½ of 15-16-7 less ROW for 307+/- acres.

LAND: Tract 1 has native pasture with pond water. Well cared for pasture with average to above average fences. Tract 2 is 307 acres of pasture with several ponds and a solar pump for water supply. This pasture can be and has been put up for hay. Fences are average to above average on this tract as well. Tract 2 is located North of Highway 56.

All Tracts are leased for oil production. Seller is keeping the lease funds but all mineral rights will pass to the buyer. The property is NOT leased for the 2019 grazing season."

TAXES: Tract 1 - 2018 \$539.66; Tract 2 - 2018 \$846.64 2018 Taxes and all-prior years. 2019 Taxes will be the responsibility of the Buyer. Possession & Closing will be on or

before February 26th, 2019. TERMS: 10% DOWN DAY OF SALE. Balance due when Merchantable Title and Trustees Deed are delivered. Sale is not contingent on the buyers obtaining financing. Escrow & Closing Fee will be divided ing contract Jay E. Brown (785) 223-7555.

ANNOUNCEMENTS & STATEMENTS made day of sale take precedence over all printed material. Broker & Auctioneers represent the Seller. Not responsible for accidents.

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Rd

Contact: David Hallauer, dhallaue@ksu.edu

January 24 - Thursday Hugoton - 8:30 a.m. to 12:30 p.m.

4-H Building, 1130 S. Trindle (Fairgrounds) Contact: Ronald Honig,

rhonig@ksu.edu

Scott City - 3:00 to 7:00 p.m

Wm. Carpenter 4-H Building, 608 N. Fairground Rd.

Contact: John Beckman, ibeckman@ksu.edu

January 25 – Friday Hoxie - 8:30 a.m. to 1:00

pm

Sheridan County 4-H Building, 940 Oak Ave.

Contact: Keith VanSkike, kvan@ksu.edu

Great Bend - 3:00 to 7:00 p.m.

American Ag Credit, 5634 10th St.

SATURDAY, FEBRUARY 9, 2019 • 10:00 AM Auction Location: 2494 19th Terr. — FRANKFORT, KANSAS

Marshall County Real Estate sells in 3 Tracts at 11:00 A.M. Tract # 1: 33.6 taxable acre bottomland - North 730' of the SE 4 Iying East of river & West of county Rd. less lot 6, Blk. 3, in 30-4-9. 29 acres cropland. Location: From Tract #2 and auction location, 2494 19th Terr. go North 1 1/2 miles on 19th Terr.

Tract # 2: 40 acre tract less R/W - West 1/2 of the East 1/2 of the South East 1/4, 31-4-9. Native grass with a ranch style home, 2712 sq. ft. Location: South of Frankfort on Hwv. 99 approx. 3 1/4 miles to Yonder Rd. then West 1 3/4 miles.

Tract # 3: 120 acre tract less R/W - East 1/2 of the East 1/2 of the South East ¼, 31-4-9 and the West ½ of the South West ¼ 32-4-9. 60 acre cropland remainder native grass and cover in the draws for game. Location: Tract # 3 lays east of Tract # 2. PERSONAL PROPERTY: 2014 Nissan Frontier truck, 4-dr, 4x4 55K, like new — Fort Knox gun safe – appliances – furniture lawnmower.

For more information visit website or call auctioneer.

SELLER: GREGORY TRUST

Auction by: Joe Horigan Realty & Auction Company Joe Horigan, Auctioneer • 785-250-5148 www.jhorigan.com

JAY E. BROWN,

785-762-2266 • C: 785-223-7555 GREG HALLGREN, 785-499-5376

Grass & Grain, January 8, 2019 2019 Cover Your Acres Conference highlights plants, people

Agricultural producers, consultants, and experts will gather for the 16th annual Cover Your Acres Winter Conference on Jan.15-16, at the Gateway Civic Center in Oberlin. The conference is a joint venture between K-State Research and Extension, the Northwest Kansas Crop Residue Alliance, and conference sponsors.

"Economics is big on everyone's mind right now," said Lucas Haag, an agronomist with K-State Research and Extension's

Colby. "So we have Jordan Steele, the lead economist with Northwest Kansas Farm Management Association, presenting their analysis of (KFMA) members' data and trying to look at what is driving profitability in our operations here in northwest Kansas and what potential pitfalls producers should be aware of." In addition, Mykel Taylor with K-State's Department of Agricultural Economics will discuss land values and rental rates.

Northwest Area Office in

Weed control continues to be a leading challenge for many producers in the Central High Plains. Marshall Hay, a Ph.D. candidate in K-State's Department of Agronomy, will present on the topic of how producers can get better effectiveness from paraquat, an old herbicide that has found new favor in the era of herbicide-resistant kochia and palmer amaranth. Additionally, Rich Zollinger, weed science professor emeritus from North Dakota State University will provide a comprehensive look at how applicators can use the proper adjuvants to improve tankmix performance.

Other topics include dryland corn hybrids, seeding rate, and planting date selection, reclaiming eroded high pH soils with beef manure, irrigated soybean management, avoiding wheat production mistakes, corn insect resistance, and palmer amaranth management.

The same programs will be offered both days of the conference; partic-

Date: Tuesday, Febru-

Location: McPherson

McPherson, Ks. 67640

RSVP by February 19,

Terra Regehr, McPher-

620-241-1523; tregehr@

For more information:

Shad Marston, McPher-

son Co. Extension Office

ary 26, 2018; 12:45 - 3:45

County Extension Office

600 W. Woodside

ksu.edu

p.m.

2018 to:

ksu.edu

McPherson

ipants attending both days will find it easier to catch most or all of the presentations. The program offers a total of ten continuing education unit (CEU) credits for Certified Crop Advisors and four CEUs for Commercial Applicators Registration will begin

at 7:45 a.m., with educational sessions ending at 5 p.m. followed by a "bull session" on Tuesday evening, where attendees can visit with industry and university specialists while enjoying heavy hors

Winter Ranch Management Seminar to kick off in February

Strategies to mitigate environmental factors impacting reproduction is the theme of the 2019 Kansas State University Winter Ranch Management Seminar Series. Hosted at four sites across the state of Kansas, the meetings will feature presentations and comments by Extension educators on profit-enhancing strategies.

The meetings will also feature a popular 'town-hall' style, question-and-answer session between Kansas cattle producers and Extension specialists. The series has a history of being a successful stretch of meetings, which are hosted throughout the state of Kansas, said Bob Weaber, K-State Research and Extension cow-calf specialist. Weaber, along with other state, district and local Extension staff, will take part in the series to help answer producers' questions. The specialists will answer a wide range of questions on beef cattle issues including animal health, nutrition, management, genetics and reproduction.

"The previous year's variable weather across Kansas presented many challenges for farmers and ranchers. Our extension team continues to field questions from beef producers related to environmental effects and their impact on cow-herd reproduction," Weaber said. "The Winter Ranch

Management series provides another great opportunity for state and local specialists to take our expertise out in the country for a series of impactful face-to-face meetings. Our extension team has a breadth of experience in beef cattle management, reproduction, genetics, animal health and nutrition. We're here to help solve and prevent production problems with reliable information."

Topics to be discussed are environmental factors affecting conception rates and forage quality and availability impacts on beef cow nutrition during late gestation and pre-breeding.

"Early in the year is a great time for producers to think and plan for the coming year." he said. "Many producers have a number of experiences in 2018 to reflect upon. As producers approach the calving season it is a good time of year to consider opportunities to improve management to reduce costs and enhance revenue streams."

2019 Winter Ranch Management locations and contacts include: Minneapolis

Date: Tuesday, Febru-

ary 5, 2019; 5:30-8:30 p.m. Location: Minneapolis Grade School (North Gymnasium Entrance)

312 Delia Ave

Minneapolis, Ks. 67467 RSVP by January 29, 2019 to

Cade Rensink, Central Kansas District

785-392-2147; crensink@ ksu.edu

Barrett Simon, Post **Rock Extension District** 785-378-3174; barrett8@

ksu.edu Brett Melton, River Valley District

785-243-8185; bmelton@ ksu.edu

Clint Laflin, Midway Extension District

785-483-3157; cllaflin@ ksu.edu

Jetmore

Date: Tuesday, February 19, 2019; Noon-3:30 p.m. Location: Hodgeman

County 4-H Building 1005 Atkin

Jetmore, Ks. 67854 RSVP by February 12,

2019 to: DeWayne Craghead, Hodgeman Co. Extension

620-357-8321;dcraghea@ ksu.edu

Rush Center

Date: Tuesday, February 19, 2019; 5:30 - 8:30 p.m. Location: Township Hall.

220 Union Street

Rush Center, Ks.

RSVP by February 12, 2019 to:

Alicia Boor, Great Bend Office, Cottonwood Extension District

620-793-1910; aboor@ ksu.edu

Jared Petersilie, La-Crosse Office, Walnut **Creek Extension District**

785-222-2710; jaredp11@

Local Food Producer Entrepreneurship Workshop planned for February 8

There is more to growing local food than planting a few seeds. To have a thriving local food business it is still necessary to have modern business and marketing skills to compete in the marketplace. The Local Food Producer Entrepreneurship Workshop is designed to help

by February 1st and \$20 after that. The registration deadline is Wednesday, February 6th. Register online at http://sedgwick.ksu. edu or by calling 316-660-0100.

21st and Ridge in Wichita.

Cost of registration is \$15

The workshop topics include business financing,

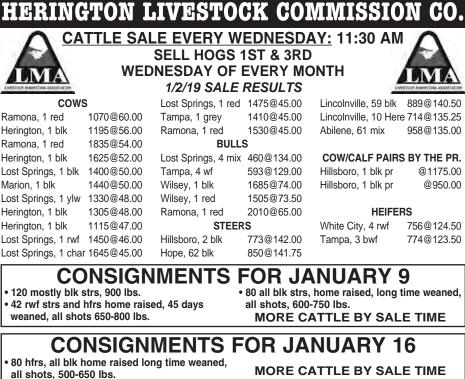
farm business.

Registration for this event is paired with the registration for the Wichita Farmers' Market Regional Workshop.

For more information, please call Rebecca Mc-Mahon at 316-660-0142.

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ture Agent 620-241-1523;smarston@

ksu.edu

Meeting times and registration fees vary by location, but all will include a meal. Participants are asked to RSVP for a selected location by the close of business one week prior to the event. Interested participants should contact their local host contact for registration and RSVP details. More information

about the K-State Winter Ranch Management Seminar Series is available at KSUBeef.org.



Phone 620-983-2158

www.grainbinsusa.com

Page 15

d'oeurves.

Early registration is

due by Jan. 9. The fee is

\$45 for either day or \$65

for both days. After Jan. 9,

the cost is \$65 per day. The

conference fee includes

lunch, morning and after-

noon refreshments, and

schedule and online reg-

istration are available at

www.northwest.ksu.edu/

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aspiring and existing local food producers gain those skills.

The workshop will be held Friday, February 8, 2019 from 11 a.m. to 4:30 p.m. in 4-H Hall at the Sedgwick County Extension Education Center at social media, diverse marketing channels, and more. The keynote speakers will be Chris & Christi Janssen from C&C High Tunnel Farms. They will be speaking about their experiences using diverse marketing channels to grow their



LAND FOR SALE

2 - 160 acre +/- tracts **Cloud County, Kansas**

Cropland, grassland, ponds & terraced terrain

Tract 1: NE 1/4 5-8-5W

Location: Located at the Southwest corner of Hwy 24 & 20th Rd or 1 mile east of Simpson, KS and 1/2 mile north.

Description: 160 acres with 102.71 acres of cultivation with balance being in pasture. There is 63.88 acres of wheat base with a 41 bu. yield, a 38.12 acre soybean base with a yield of 27 bu.

Listed for: \$415,000

Tract 2: SE 1/4 5-8-5W

Location: 1 mile east of Simpson, KS.

Description: 160 acres with 120 acres of cultivation and balance grass. There is a 66.3 acres wheat base with a 49 bu. yield, a 17.0 acre grain sorghum base with a 103 bu. yield, and a 3.8 acre soybean base with a 32 bu. yield.

Listed for: \$448,000 *Class 2 soils make up over 100 acres on each tract.



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JACKSON COUNTY 640 Ac m/l improved farm with modern home,

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Barb 819-2789 Ottawa Co.- 56 Acres m/l,50 Acres cropland balance wildlife habitat. East of Bennington. Chris 493-2476

Ottawa Co.- 157.6 Acres m/l with 122.87 Acres crop land balance wildlife habitat. East of Bennington. Chris 493-2476

Ottawa Co.- 158.2 Acres m/l with 127.49 acres cropland and 30.71 Acres native grass & waterways. South of Minneapolis. Chris 493-2476 Chase Co.- 529 Acres m/ near Cedar Point- Cropland. pasture, meadows & wildlife habitat. Chris 493-2476 Saline Co.- 119 Acres all cro-

pland. Eastern Saline Countv . Chris 493-2476

Saline Co.- 78.5 Acres, 74 Acres Crop Land. Eastern Saline County. Chris 493-2476

Ottawa Co.- 10 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476 Ottawa Co.- 20 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476 Ottawa Co.- 20 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476

Homes For Sale Saline Co.- 2.7 Acres m/l Southeast of Saline. 2 Story vintage restoration. 54x99 Morton Building. Chris 493-2476

Cloud Co.- 7+ Acres/ 2800 Sq. Ft. Home/ Country Oasis/ 5 Bdrm./ 4 1/2 Baths/ 28X60 Shop. \$250K. Chris 493-2476 Saline Co.- 12 Acres m/l. Close to Lindsborg. Best Views of Coronado Heights. 4 Bdrms./2 Baths. Mari 452-5314



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Grass & Grain, January 8, 2019

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'82 IH 5488 MISCELLANEOUS

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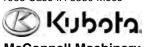
Ford 1700 2WD diesel 2016 Kubota BX 2370 4WD,

ldr mwr 1969 AC180, cab w/ldr

MISCELLANEOUS

ter 2014 Bush Hog 2815 15' cut-

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ents!	Trailer Sales	sep. hrs
emisi	430 S. Colorado	'11 Case IH 3406 corn head
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	www.rockingmtrailers.com	'89 Case IH 1063 corn head
Grass.	j	'14 Case IH WD1203 SP
ky A	5 J G J NI	windrower, 14' hd, 380 hrs
	100 ANN	'09 Case IH RB564, 3,600 bales
Good	EXCEPTION A /21	Vermeer 604M
5	Wilson	'12 Case IH 1250 16x30 w/
2 mi	TRAILER	liquid fertilizer
iction	Since 1890 A Good Name to Name Behind Your"	2- 2012 Case IH 1250 plant-
	NEW STOCK, HORSE,	er, 16x30 '06 Case IH 1200 PT 12/30
Call	FLATBED, & UTILITY TRAILERS	planter
4		Case IH 1200 planter 6/30,
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	lights, sand blast,	'02 Case IH 4300, FC 27'
on	paint weld	GP Turbo-Till 3000 JD 8' wheel disk
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& 2	USED TRAILERS	Sunflower 4212-11 disk
all Ray!	Waterville Location:	chisel
1-	'04 Travalong 20' GN Stock	2- Case IH 6500 conser till, 14'
	\$5,600	'89 Case IH 1020 25'
4	'15 Travalong 24' GN Stock	IH 863 cornhead
2 Car	\$9,000 '13 Titan 16' GN dump	JD Frontier RC2084 rotary
101	\$8,000	cutter NH 1465 MoCo, 9'
	'09 Pro Stock 16' BH stock	'08 Cub Cadet GT 2554
1	combo\$2,600	garden tractor
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'98 Gleaner R62\$67,500	1- VR1224	Massey Ferguson 1433 Tractor	\$18,000 Blu Jet II ripper 7sh\$7,000	er, stk#5103New In Stock	nearly new. Stk#Consigned.
(2) '97 Gleaner R62\$45,000		\$6,500 2011 CIH 290 Magnum tractor	Blue Jet ripper 5shCALL	2012 MF 978 mechanical self	\$2,200
'94 Gleaner R62\$40,000	SPRING STEEL AVAIL.	MFWD 3,000 hrs, Prem. cab	Hiniker 1000 cultivator 12r 30'.	leveling ldr, w/ MF 7619 Dyna- 6 mounting brackets, very	IH 800 Cyclo 6-row air plant-
'13 3000 12R30\$55,000	ROUND SQUARE TUBING	\$77,900		good cond., single lever Hyd.	er. Used last in 2014, with
'11 3000 12R30\$50,000	ANGLE CHANNEL & FLAT	JD 220 rigid head\$900	Hiniker 6000 12R30 \$14,500	coupler release, 95" grap-	monitor, new tires & down
MISCELLANEOUS	2 3/8", 2 7/8", 4 1/2" pipe	JD 920 rigid head\$4,000	Lilliston cultivator 6R30. \$2,500	ple bucket w/ Silage screen.	pressure springs, corn, bean & milo drums, liquid fert. w/
Sunflower Tillage equipment	3/4 & 7/8 sucker rods	1990 JD 853A rowhead	JD 885 cultivator 8rw \$5,000	Stk#7151 consigned \$8,900	Jon Blue pump. Stk#6448
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WHITE	Top & bottom belts for all bal-	2015 JD 635 draper CALL	2011 CIH 1250 planter 16rw	Excalibur blades, Hyd. adjust	MF TD 1635 hay Tedder.
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Kalvesta Impl.	Portable panels, Feed Bunks & Round Bale Feeders	2007 JD 635F flexhead	JD 1700 planterCALL	able gang angle. Stk#4953	Think 2000 yr model, setting
Company, Inc.		\$12,000	Buffalo 4600 cultivator \$1,500	\$59,000	in barn unused for a few
620-855-3567		JD 930F flexhead\$8,500	KMC Cultivator\$1,000	2000 New Idea 5209 Disc Mower	years. 200 bales on belts
KALVESTA, KS 67856	LEONARDVILLE, KS 66449 785-293-5583	CIH 2208 cornhead\$11,000	2018 Industrias Am. blade	Cond. 9', kept shedded, recon-	that were new 6 yrs ago.
www.kalvestaimplement.com	785-293-2235	CIH 2020 Flexhead 9,500	160rCALL	ditioned bar. Stk#3573 \$6,900 2005 JD 6420 cab, PFA w/	Rebuilt pick-up & twine arms. Stk#6447\$6,000
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TRACTORS/SKID LDRS	Scraper	\$2,500	ft. NEW CALL	4,850hrs, shedded most of	3,947 bales, twine & mesh,
1974 IH 1066 no cab	Patriot 37' header trailer	Brent 772 graincart \$10,000	Jones Machinery, Inc. is	time. Stk#7090 \$48,900	fuly auto cycle w/ On Board
1988 JD 4650 Powershift	JD 637 29' disc	2014 Kuhn VT144 mixer\$25,000 2010 Haybuster H1130	a dealer for Akron grain	1975 Allis Chalmers 175 die-	hydraulics, hyd. pickup, fire
5800 hrs, 2wd	JD 38 9' sickle mower	2010 Haybuster H1130	baggers & unloaders.	sel, 6,640hrs, 1,500hrs on	extinguisher, C1000 moni-
1961 JD 3010D WFE,	Douglas Welding post pull-	2008 JD 956 Moco swathercall	Give us a call!	new injection pump, clean &	tor, serviced and ready to
Koyker K-5 loader	er for skid steer	NH 275 sq. baler		straight, good cond., stk#7090	go. Stk#1551 Promotional
Gehl 2500 skid loader, 48"	2006 Case IH 1200 16 row	JD 569 premium round baler	Complete listing on our web:	\$5,400	Financing\$29,900
bucket.	30 stacker planter	\$23,500	www.jonesmachineryinc.com	2007 ASV SR80 compact track	2010 MF 1839 small square
2014 JCB205 skid loader	2008 Case IH 1200 16 row	2015 New Holland 160	BUY/SELL/TRADE DAILY	ldr, 2,315 hrs, open cab, tracks	baler, hyd bale tension, Hyd
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loader, 140 hrs	New Rhino TW 27 rotary-	2014 NH 340 big square baler	785-282-3000	2011 Terex PT100G forestry	Harvest Tech Hay Boss pre-
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loader, 560 hrs	skid steer tree puller	2005 1890 airdrill w/1910 cart .		Stk#1943 \$19,00	Utility service bed\$1,900 OBO
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bale processor	A ITECOTOR	CALL	JONES	16x16 power shift, 3 remotes,	TractorHouse.com!
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		H&S 270 manure spreader	MACHINERT, INC.	cond. Stk#6582\$34,900	785-843-8093
1986 Case IH 1063 corn-	SUNFLOWER			2010 AGCO Hesston 9635,	800-654-5191
head with corn reel		(//C_34963.22A)	TumbleWeed Auction Co. LLC	2,035 eng. hrs, 1,400 head- er hrs. Trimble 750 auto	
		TUMBLEWEED	935 E HWY 36 Smith Center, KS	steer, dbl. Windrow attach.,	Fax: 785-843-1014
2004 Case IH 2366	FARMHAND		785-282-5419	very clean, well maintained.	
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Parker 510 grain cart, cor-			LLC is taking consignments	header, Stk#6951 \$69,900	
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Hogs and Pigs report seen as market-friendly and Pigs report offered no real surprises to market experts, pegging the U.S. inventory of all hogs and pigs on Dec. 1 at 74.55 million head. This was up 1.9% from Dec. 1, 2017. but down 1% from Sept. 1 of this year. Steve Meyer, Kerns and Associates. says the pre-report estimates came in up 2.7%, "so this is a little smaller than analysts had expect-

ed." Breeding inventory was set by USDA at 6.326 million head, up 2.4% from last year, under the 2.8% increase predicted by analysts. The USDA

USDA's quarterly Hogs lower from the previous quarter. The marketing herd, coming in at 68.225 million head, up just shy of 2% from last year, but analysts estimated that number to be up 2.6%, for a 0.7% discrepancy.

> The largest discrepancy between analysts' projections and the USDA report came in the under-50 pounds category where the report pegged the number at 21.599 million head, up 0.9%, as where analysts predicted that to be up 2.5%. "That is the only number in the report that had over a 1% difference than what analysts had expected it to be," Meyer says.

Altin Kalo, analyst with the Steiner Consulting Group in Manchester, N.H., sees this report as friendly to the market. "just because a lot of the key numbers were under what the analysts were expecting."

Focusing on the breeding herd, which USDA says is 2.4% above a year ago, but lower than analysts' expectations and lower than the September breeding herd, he says the gilts retained is lower by about 3%. "It is hard to say if this will be the trend moving forward, whether that reflects some of the challenges that producers have faced" with weather at time of breeding or trade issues.

Grass & Grain, January 8, 2019

USDA reports the sows farrowing during this period totaled 3.16 million head, up 2% from 2017. The sows farrowed during this quarter represented 50% of the breeding herd. The number of average pigs saved per litter continues to creep up, reaching a record high of 10.76 for the September-November period, compared to 10.74 last year.

American pig farmers intend to have 3.11 million sows farrow during the December-February quarter, up 2% from the actual farrowings during the same period in 2018,

and up 4% from 2017. Intended farrowings for March-May 2019, at 3.15 million sows, are up 2% from 2018, and up 4% from a year ago.

Kalo suggests watching these farrowing numbers, as they are higher than what he had expected to see moving forward.

Bob Brown, Independent Analysts of Edmond, Okla., and Jim Robb, director and senior agricultural economist with the Livestock Marketing Information Center in Lakewood, Colo., joined Kalo on a Pork Checkoff-hosted conference call after the report was released.

report came in slightly PorkBridge educational al program program year. About a Since 2005, the distance

KSUSwine.org.

educational series Pork-Bridge has provided relevant and accurate information for those who own. manage or work in swine grow-finish facilities. The program offers participants six opportunities each year to hear from industry experts on topics relevant to those who are involved in grow-finish operations.

Kansas State University is one of 11 collaborating universities that developed and make the PorkBridge educational program possible. The program kicks off its 2019 session on February 7. Registration for the program is due Jan. 15, 2019, to ensure participants receive materials in time for the first session. A registration form is available at

Joel DeRouchev, Kansas State University animal science professor and Extension swine specialist, said, "Producers and others in the industry can get the information they need without the hassle of traveling or giving up an entire day to attend a meeting. PorkBridge participants can take part where it works best for them whether at home. in an office or in the swine unit. And all can listen later to the audio we record of each live session."

In its 14th year. Pork-Bridge session information is provided through electronic materials and live speaker presentation via teleconference. This program takes place everv-other-month for a total of six times during each week before each session, participants receive a web link to download the session's presentation and any additional information provided by the presenter. Participants call in for the audio portion of each session and follow along with their own copy of the presentation on their computer or other device. There is also an option to request the electronic materials be mailed via CD.

DeRouchey explains there's an added incentive to participate this year. "We've lowered the registration price to \$100 for the entire series and feel that the information provided is seen as high value for the program cost."

As in the past, each subsequent registration

from the same entity is half the cost - \$50. Each registration provides access to one phone line per session and all program materials for each registration, including audio recordings of the live session. Potential subscribers from outside the U.S. are encouraged to contact Sherry Hover, Iowa Pork Industry Center (IPIC), at 515-294-4496 or shover@ iastate.edu for more information.

The sessions start at 11:30 a.m. and last about 60 minutes. Session dates, speakers and their industry affiliations are:

Feb. 7 - Patrick Webb, National Pork Board: "Foreign Animal Disease Awareness"

April 4 - Melissa Wilson, University of Minnesota: "Current Manure

begins in February Value: Getting the Most from Manure"

> May 30 - Jesse McCoy, Neogen: "Water Quality Considerations"

> Aug. 1 - Dusty Compart and Chris Murphy, Compeer Financial: "Contract Growing: The Ins and Outs"

> Oct. 3 – Brett Ramirez. Iowa State University: "Controlling Barn Environment"

> Dec. 5 - Max Rodibaugh, AMVC: "Timely Intervention of Sick Pigs"

> More information including session dates, topics, speakers and registration information is available online at KSUSwine. org. For more information. contact Hover at 515-294-4496 or shoyer@iastate edu or DeRouchev at iderouch@ksu.edu or 785-532 2280.

Scientists engineer shortcut for photosynthetic glitch, boost crop growth by 40 percent

Plants convert sunlight into energy through photosynthesis; however, most crops on the planet are plagued by a photosynthetic glitch, and to deal with it, evolved an energy-expensive process called photorespiration that drastically suppresses their yield potential. Today, researchers from the University of Illinois and U.S. Department of Agriculture Agricultural Research Service report in the journal Science that crops engineered with a photorespiratory shortcut are 40 percent more productive in real-world agronomic conditions.

"We could feed up to 200 million additional people with the calories lost to photorespiration in the Midwestern U.S. each

year," said principal investigator Donald Ort, the **Robert Emerson Professor** of Plant Science and Crop Sciences at Illinois' Carl R. Woese Institute for Genomic Biology. "Reclaiming even a portion of these calories across the world would go a long way to meeting the 21st century's rapidly expanding food demands-driven by population growth and more affluent high-calorie diets."

This landmark study is part of Realizing Increased Photosynthetic Efficiency (RIPE), an international research project that is engineering crops to photosynthesize more efficiently to sustainably increase worldwide food productivity with support from the Bill & Melinda Gates Foundation,

the Foundation for Food and Agriculture Research (FFAR), and the U.K. Government's Department for International Development (DFID).

Photosynthesis uses the enzyme Rubisco-the planet's most abundant protein-and sunlight energy to turn carbon dioxide and water into sugars that fuel plant growth and yield. Over millennia, Rubisco has become a victim of its own success, creating an oxygen-rich atmosphere. Unable to reliably distinguish between the two molecules, Rubisco grabs oxygen instead of carbon dioxide about 20 percent of the time, resulting in a plant-toxic compound that must be recycled through the process of photorespiration.

"Photorespiration is anti-photosynthesis," said lead author Paul South. a research molecular biologist with the Agricultural Research Service. who works on the RIPE project at Illinois. "It costs the plant precious energy and resources that it could have invested in photosynthesis to produce more growth and yield."

Photorespiration normally takes a complicated route through three compartments in the plant cell. Scientists engineered alternate pathways to reroute the process, drastically shortening the trip and saving enough resources to boost plant growth by 40 percent. This is the first time that an engineered photorespiration fix has been tested in real-world agronomic conditions. "Much like the Panama Canal was a feat of engineering that increased the efficiency of trade, these photorespiratory shortcuts are a feat of plant engineering that prove a unique means to greatly increase the efficiency of photosynthesis," said RIPE director Stephen Long, the Ikenberry Endowed University Chair of Crop Sciences and Plant Biology at Illinois. The team engineered three alternate routes to replace the circuitous native pathway. To optimize the new routes, they designed genetic constructs using different sets of promoters and genes, essentially creating a suite of unique roadmaps. They stress tested these road-

maps in 1,700 plants to winnow down the top performers.

Over two years of replicated field studies, they found that these engineered plants developed faster, grew taller, and produced about 40 percent more biomass, most of which was found in 50-percent-larger stems.

The team tested their hypotheses in tobacco: an ideal model plant for crop research because it is easier to modify and test than food crops, yet unlike alternative plant models, it develops a leaf canopy and can be tested in the field. Now, the team is translating these findings to boost the yield of soybean, cowpea, rice, potato, tomato, and eggplant.

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trouble picking out carbon dioxide from oxygen as it gets hotter, causing more photorespiration," said co-author Amanda Cavanagh, an Illinois postdoctoral researcher working on the RIPE project. "Our goal is to build better plants that can take the heat today and in the future, to help equip farmers with the technology they need to feed the world."

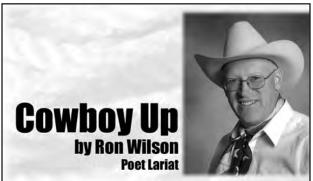
While it will likely take more than a decade for this technology to be translated into food crops and achieve regulatory approval, RIPE and its sponsors are committed to ensuring that smallholder farmers, particularly in Sub-Saharan Africa and Southeast Asia, will have royalty-free access to all of the project's breakthroughs.



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Grass & Grain, January 8, 2019



The Horse, of Course

just mean it is important. I mean that horse over there is named Major. This horse named Major became one Kansas woman's favorite equine. Not only does she love horses as an individual, horses have become her professional focus through the Kansas Horse Council.

Justine Staten became executive director of the Kansas Horse Council in June 2017. She has long been interested in the horse industry, having grown up in northeast Kansas and studied animal sciences and industry at K-State.

"I always had that love for horses," Justine said. Her ultimate goal was to have horses and cattle.



That is Major. No, I don't She married Tony Staten and they now raise horses, cattle, and kids near Manhattan.

> In 2002, Justine joined the Kansas Horse Council as an assistant to the director. In future years she worked in other positions as her kids were growing up, but in 2017 she was tapped to be executive director of the organization.

> Since 1992, the Kansas Horse Council has worked to be the voice of the horse industry in Kansas. The council is "dedicated to providing the Kansas equine industry with leadership and direction through education, promotion, and public policy advocacy." Justine said, "It's great that we represent



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all breeds and all disciplines."

The horse council is a non-profit, member-based organization. Joining the council provides numerous membership benefits, including a million-dollar limited liability insurance policy on members' horses. a Horse Care 101 seminar with the K-State College of Veterinary Medicine, an equine business directory, an equestrian trails directory, and a foundation that awards thousands of dollars in educational scholarships to youth.

KHC also sponsors Equifest of Kansas, a huge three-day equine fair with tons of breed demonstrations, entertainment, seminars, clinicians, and a tremendous trade show. It is a huge undertaking to conduct this event. The next Equifest is scheduled for February 22-24, 2019 at the Expocentre in Topeka.

"I thrive on all the different aspects of this," Justine said. "We're working on an equine economic impact survey and we want everybody to participate."

Alert readers of this column will know that I always like to ask equine folks about their favorite

horse. In Justine's case, it was a horse named Major.

Major was a "dark buckskin with big doe eyes," Justine said. He came to their place in a roundabout way, as an employee of her husband was looking for a place to keep the horse. Major came and got adopted.

"He was very cowy, having come out of a feedlot," Justine said. "He had a heart of gold, and was a real pleasure to ride."

One time Major was being used to roundup some cattle that had gotten out. His rider thought they had them all - but Major kept wanting to turn back. Sure enough, the rider went back and found two more calves in the tree line.

"Major was very dependable and wouldn't spook," Justine said. She remembers another time when Major was being ridden in a local parade and some clown on a bicycle no, I mean literally, a clown on a bicycle - came right between Major and another horse and chose that moment to honk his bicycle horn. Major somehow kept his cool.

Kansas Horse Council

By Ron Wilson, Poet Lariat When people come together for something that they love, It can have a huge impact, as I am thinking of. Twenty-six years ago, folks got together to create A Horse Council for the equine industry in our state. The Kansas Horse Council is a broad collaboration Of horse owners for all uses, from pros to recreation. They promote the industry in many, many a way, From liability insurance to scholarships that pay. The council advocates for helpful legislation, Sponsors Horse Care 101 and other types of education. It has an equine business directory, a guide to equestrian trails, And specialty license plates which make revenue from sales. Then there's Equifest of Kansas, a huge equine event, Which brings together horse owners and the interests they present. Equifest has vendors, demos, and ranch rodeo competitions. Along with fun entertainment and leading horse clinicians. So we thank the Kansas Horse Council for being a positive force, As a unifying voice in the promotion of the horse. Happy Trails! www.ronscowboypoetry.com © Copyright 2018

Now, that is Major.

Managing ag land for happy, healthy wildlife benefit producers. One

By Jeri Geren, Wildcat **District Diversified Agri**culture and Natural Resources agent

Winter can be brutal on occasion, and knowing that the cows need to be fed and chores still need to be done are sometimes the only reasons to head outdoors. Nonetheless, nothing beats the feeling of sunshine on a cold brisk winter morning and hearing the birds sing happily in the trees. Even better would be seeing a healthy covey of quail fly off ahead or a monster buck go dashing away in the nearby woods. Making plans this winter to manage agricultural land to benefit wildlife can help lead to seeing healthy and diverse

wildlife populations in the

When considering a wildlife management plan, it is essential to begin with the end in mind. What is the goal of wildlife management? For example, is the goal to generate income from hunting, to increase habitat for personal hunting experiences, or solely for the enjoyment of watching wildlife? Another important aspect is to consider the inventory or limitations to the area being considered. Access the wooded areas, streams, fields, native vegetation and places where land joins another occupant.

There are several options that improve conditions for wildlife and also

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The most cost effective forage a cow can consume is the forage she can harvest herself. However, protein often times becomes the most limiting nutrient for cattle grazing crop residues and dormant grass pastures. In these situations protein supplementation is required to efficiently harvest energy from these protein deficient forage-based diets.

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CALL KEY FEEDS TODAY 1-800-432-7423 OFFICE conservation tillage practices. While this decreases runoff and erosion, it also provides food for birds, deer and small mammals. Grassed waterways, field borders and windbreaks all provide food and cover. Riparian buffers or filter strips provide feeding and nesting areas, winter shelter and as an added benefit, the shade and fallen debris can serve as excellent spawning areas to the nearby stream. In addition, simply rotating livestock can offer improved forage for wildlife, increase insect populations for birds and can provide excellent nesting cover.

would be to implement

Food plots can also be an effective way to maintain wildlife populations through the winter. A good food plot would consist of a mixture of grasses and forbs and contain both cool- and warm-season plants. This would provide food to a variety of wildlife for extended periods of time.

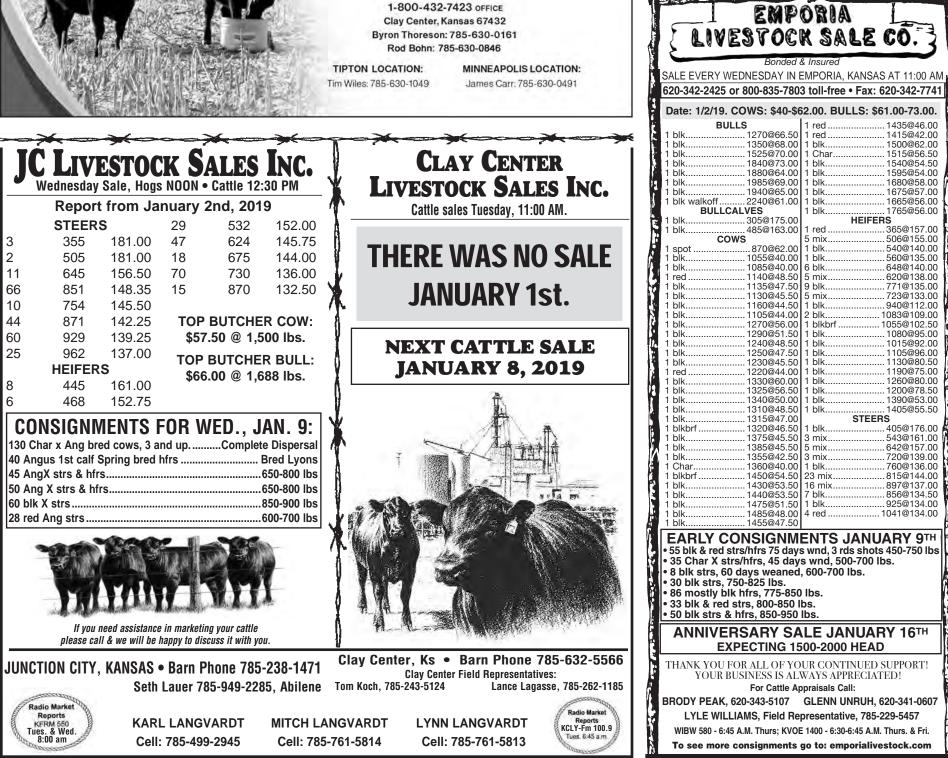
There are many reasons to begin managing agricultural land to benefit wildlife. The aesthetic and recreational benefits can lead to new hobbies such as hunting, observation or photography. The improved wildlife habitat provides conservation benefits such as reduced soil erosion and better water quality. There is also the potential for increased income from hunting. By providing areas that are suitable for wildlife, all ages of people can interact and discover the wonders of nature.

For more information, contact Jeri Geren, Diversified Agriculture and Natural Resources, jlsigle@ ksu.edu, (620) 331-2690.



9-6469

future.





The 2019 Perennial of the Year

Stachys 'Hummelo' has been selected as the 2019 Perennial Plant of the Year by the Perennial Plant Association. Commonly referred to as betony, this perennial offers a

The perennial plant basal clump of glossy, dark an easy-to-grow perennigreen leaves and rose-lavender dense flower spikes. Bloom time is July to September, so 'Hummelo' offers lovely color in the heat of the summer.

Stachys 'Hummelo' is

al for moist, well-drained soils in full sun to light shade. Deadhead spent flower spikes to regenerate foliage and boost plant vigor. It is relatively pest-free and deer leave

it alone. This perennial can be grown near walnut trees since it is not affected by walnut wilt.

One may be more familiar with its relative that has the silver, fuzzy-leaves called lamb's ear. 'Hummelo' grows 18-24 inches tall and wide with glossy, dark green scallop-edge foliage. It is a relative of mint and eventually the clumps will spread by stolons or runners, but not as aggressively as some mints we grow.

Stachy's 'Hummelo' received the highest rating out of 22 Stachys va-

Grass & Grain, January 8, 2019 rieties evaluated at the Chicago Botanic Garden between 1998 and 2004. It received this rating based on strong flower production, plant health, overall good growth habit, and winter-hardiness. To read more about the trial, view the report on the Chicago

Botanic Garden website. Good companion plants include coneflower (Echinacea), Leucanthemum 'Becky,' sea holly (Eryngium), Russian sage (Peroviskia), catmint (Nepeta), hardy geranium (Geranium), and stonecrop (Sedum). Plant it against

Page 21 golden arborvitae for a striking color combination.

Now is a good time to be planning your spring plantings which just might include some betony.

If you would like additional information on a horticulture topic, please contact Gregg Eyestone at the Riley County office of K-State Research and Extension. Gregg may be contacted by calling 537-6350 or stopping by 110 Courthouse Plaza in Manhattan or e-mail: geyeston@ksu. edu and at www.riley.ksu. edu

Discovery may help chickens to muscle up – K-State researchers find vitamin compound that boosts growth

A form of a vitamin associated with healthy aging in humans has been used by Kansas State University researchers to build muscle in chickens, a sign that could help the poultry industry meet future demand for its product.

Muscle biologist and meat scientist John Gonzalez and graduate student Stephanie Kruger said the university is pursuing a patent on a process in which scientists injected nicotinamide riboside - a compound similar to vitamin B3 - into unhatched chicken eggs to enhance muscle development of the offspring.

"We found that their organs and their overall growth were not affected, but we did see an increase in muscle mass," Kruger said.

The findings have big implications for an industry that has seen global demand for chicken increase annually. Instead of trying to find ways to raise more birds, producers may

one day be able to raise the same amount of birds more efficiently.

"We measured increases in the weight of the pectoralis major muscle, or the chicken breast," Gonzalez said. "So, we hope that will translate down the line into larger muscles on those birds when they go to market."

Nicotinamide riboside has been found to be a reliable analog - or, substitute – for vitamin B3 in human health studies. The compound is thought to help delay the effects of aging by boosting biological functions that affect stress responses, metabolism and other cellular activities.

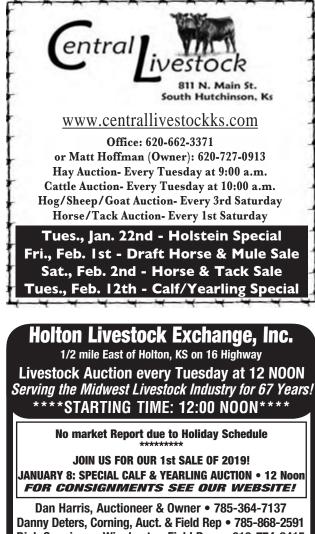
Kruger said K-State's work focused on injecting the compound into the unhatched eggs during the tenth day of incubation. She noted that the researchers discovered the best success when injecting nicotinamide riboside into the yolk of the egg.

"The thing that is interesting to us is that the

response is fairly consistent," Gonzalez said, noting that muscle mass increased by as much as 35 percent in the birds included in this study. "We've had different-sized eggs, we've had lots of eggs and we've run it four

times, and we've had the same response each time."

The Kansas State University Research Foundation is pursuing a patent for the researcher's work, which will help to make the process available to the industry more quickly.



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Renner joins American **Gelbvieh Association staff** The American Gelbvieh

Association (AGA) would like to welcome Jake Renner to the staff as member and youth activities coordinator.

Renner grew up in the rural community of Pratt. where he was involved in 4-H and spent a large majority of his time focusing on livestock projects. In 2013 Renner graduated from Fort Havs State University where he studied animal science and competed on the livestock judging team. For the past five years he has been a county agent for K-State Research and Extension (KSRE) in Kingman County covering agriculture and natural resources as well as a 4-H and youth development. Renner is currently finishing his final year of graduate school at Kansas State University pursuing a master's degree in agricultural education and communication.

In his role as member and youth activities coordinator, he will guide the American Gelbvieh Junior Association (AGJA) and help to develop the next generation of leaders in the beef industry. Renner will also be tasked with enriching the membership experience for AGA members.

"Through KSRE I have found a passion for informal education and seizing any opportunity to work with the youth of the beef industry to help them find their place. I am excited about the opportunity to mentor and advise the members of the AGJA to find their passion within the beef industry," says Renner. "I am looking forward to serving as the liaison between the AGJA and the AGA/American Gelbvieh Foundation as we think outside the box and work toward creating strong standing relationships with industry leaders for support on all levels. I am honored to have the opportunity to work with the AGA team moving forward."

"We are excited to continue to grow the AGA team with talented individuals like Jake. His experience and education in youth development and passion for agriculture makes him a great fit to lead and help develop the youth and ultimately the

future of our breed,"says Megan Slater, AGA interim executive director. Renner began his role

on January 2, 2019, and will be based in Lincoln, Nebraska. Renner can be reached at 303-465-2333 or via email at jake@gelbvieh.org.





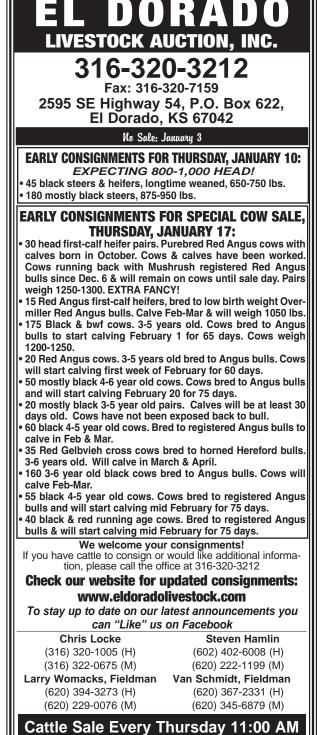
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By Donna Sullivan, Editor

Just weeks after successfully shepherding his eighth farm bill to the President's desk for a signature, Sen. Pat Roberts travelled to Manhattan for an emotional announcement that he would not seek re-election in 2020. "Manhattan is an example of all I have worked for on behalf of Kansans and the nation," Roberts said. Along with the farm bills he helped craft, Roberts listed among his proudest accomplishments the National Bio- and Agro-Defense Facility (NBAF), which is currently under construction in Manhattan, calling it the anchor of our state's new economy, based on research infrastructure and agriculture. "It will create jobs for our citizens and innovation for the world," he stressed. "I have spent 18 years working with many partners in the state, federal and local government to bring this facility – and all of the resulting benefits - to our state. It is a personal point of pride to see this construction when 18 years ago, few people believed we could do it, but we did."

Standing in the lobby of the Kansas Department of Agriculture, Roberts said that many who do not live in farm country don't understand the role Kansans play in feeding the world, a role the senator said he was always proud to champion.

With his wife Franki by his side, Roberts vowed to "spring to the finish line" as he completes his term in the 116th Congress. "Despite the partisan divide and conflict in Washington that threatens progress, I continue to believe we can achieve results," he said. "Those who know me know I work hard, I persevere, I do not give up and I will do what it takes to get the



With his wife Franki by his side, Sen. Pat Roberts made the announcement last Friday that he will not seek re-election in 2020. He chose Manhattan for the location to make his announcement because he feels the city is an example of all he has worked for on behalf of Kansas and the nation. "It is the tangible realization of hope and progress, prosperity and growth." Photo by Donna Sullivan

job done."

While the farm bill has been passed and signed by the President into law. Roberts said the Senate Ag Committee which he chairs, still has urgent work to do. He said they will make trade policy a top priority and will oversee USDA's implementation of the farm bill to ensure it is working for farmers and ranchers.

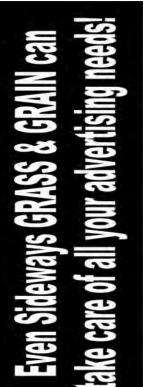
Roberts said he will also spend time in the next two years expressing his appreciation to those who have helped him and the state of Kansas along the way. "There are many partners inside and outside of

government who contribute to the policies and vision that have enhanced our way of life," he said. "There are no self-made men or women in public office; it is your friends who make you what you are and I have a lot of friends along the way who have helped me make a difference for this state."

Topping the list of those supporters is his wife, and children David, Ashleigh and Anne-Wesley. "Their love, support and perhaps most important, their understanding - well, you can imagine how that feels. I'm a very lucky husband, father and now grandfather to seven.'

"For a boy who was born in Topeka, grew up in Holton and bled purple at K-State, I've been given a wonderful opportunity by the people of Kansas through 16 elections in the House representing the Big First and eight elections in the Senate. Twenty-four elections! I'm damn proud of that undefeated record, and it's all thanks to a strong partnership in government with the good people of Kansas."

Following the announcement, Senator Jerry Moran said, "Senator Pat Roberts has had an impressive tenure as a leader in both the House and the Senate, and has served Kansans honorably is chairman of the House and Senate Agriculture Committees, the Senate Inelligence Committee and he Senate Ethics Commitee. Pat's leadership, wit and ability to bring indi-



many years of service."

"Kansas farmers and ranchers thank Senator Pat Roberts for his lifetime of service to agriculture," said Kansas Farm Bureau president Rich Felts. "He's served as a leader in both the House and the Senate, and been a strong advocate for agriculture. We are grateful for his strong leadership, tenure and tenacity."

"I can't think of a lawmaker who is more in touch with U.S. and Kansas agriculture, and it's hard for us to consider a future without Pat Roberts as a Kansas senator," Kansas Corn Growers Association CEO Greg Krissek said. "Farmers in Kansas and across the nation have benefited from Senator Roberts' insightful and dedicated leadership in the Senate - especially his work on the Senate Ag Committee."

While Roberts sometimes faced criticism for working across the aisle and striving for bi-partisanship, it is exactly that ability he believes led to the passage of the farm bills and other achievements. "Even though the world has changed, the politics have changed, and the personalities have changed many times over, with the support of Kansans, I'm proud to have offered consistent and dependable leadership to our state through it all. I've learned that being true to myself and sticking to my principles will always win the day."

Olathe farmers' market workshop February 1

The Kansas Department of Agriculture, K-State Research and Extension and the Kansas Department of Health and Environment will host a regional workshop in Olathe on Friday, Feb. 1, at K-State Olathe. This is one of six regional workshops which are being held this winter to assist farmers' market vendors and managers.

viduals on both sides of

the aisle together, skills he

honed in service to our na-

tion as a U.S. Marine, will

be missed in Congress.

It's been an honor to work

with the senior senator

from Kansas on behalf of

our state. Thank you, Pat,

for your friendship and

Kansas farmers' markets not only provide a fresh food source, but also stimulate the local economy. In 2018, 95 farmers'

and the workshops will vide growers a wonderful opportunity to have real begin at 9:00 a.m. and coninteraction with consumclude by 3:00 p.m. Registration for this workshop ers, and a chance to tell is now open and is \$20 per farm's story, said participant. Registration Londa Nwadike, consumer food safety specialist with includes lunch; however, K-State Research and Exlunch will only be guarantension and the Universiteed to those participants who register by Jan. 24. ty of Missouri. "It's also important for farmers to Registration forms can be understand certain legal, found at FromtheLandofKansas com/FMWorksafety and financial parameters before choosing to shop or at local extension sell at a farmers' market." offices. A keynote presenta-For more information, tion will feature tips on contact Lexi Wright, KDA's marketing and making a From the Land of Kansas profit, and a panel will marketing coordinator, provide information sellat 785-564-6755 or Lexi. ing to institutions such as Wright@ks.gov. Workshops are also being held in Parrestaurants, groceries and schools. KDA's weights and sons, Dodge City, Wichita, measures program will Manhattan and Hays. Varu Sell Tuesdays By STARTING TIME Cattle **Or Buy** 10:30 AM Auction NO SALE LAST WEEK **CONSIGNMENTS FOR FIRST SALE OF THE YEAR, JANUARY 8: CONSIGNMENTS FOR DUE TO HOLIDAY** • 50 blk strs & hfrs, 600-700 lbs., weaned, • 150 black heifers, 700-775 lbs. **JANUARY 15:** SCHEDULE! 50 blk strs & hfrs, 600-700 lbs., • 64 black heifers, 800-825 lbs. vacc • 48 black steers, 700-750 lbs. • 60 blk strs & hfrs, 600-750 lbs., weaned, 75 days, weaned, vaccinated • 140 Angus strs, 700-800 lbs., homeraised vacc. WATCH OUR • 35 black steers & heifers, 700-750 lbs. • 62 blk strs, 850-875 lbs., homeraised • 160 blk strs & hfrs, 550-700 lbs., • 120 blk Char steers, 850-875 lbs. AUCTIONS weaned, vacc. 65 black steers, 900-925 lbs. LIVE ON • 215 black steers & heifers, 700-775 lbs. • 60 black Charolais steers, 900-925 lbs. **DVAuctions.com** • 150 black steers & heifers, 825-900 lbs. • 60 black steers, 925-950 lbs. • 40 black heifers, 750-775 lbs. • 60 black crossbred steers, 925-950 lbs. Our CONSIGNMENTS can now be viewed after 12 Noon on Mondays by going to WWW.grassandgrain.com & logging onto the online subscription

also offer free scale certification for attendees. Workshop topics will include:

Pest Control Methods, Cover Crops and Soil Health

Regulations for Selling Meat, Eggs and Poultry Double Up Bucks and

Sales Tax for Vendors Specialty Crops and

Produce Safety Morel Mushroom Iden-

tification Kansas and Missouri Senior Farmers' Market Nutrition Program Train-

ing markets were registered The workshop will be with KDA's Central Regisheld at K-State Olathe, 22201 W. Innovation Drive tration of Farmers' Marin Olathe. Onsite registrakets. "Farmers' markets protion will open at 8:30 a.m.

Grass & Grain Weather Report Jan. 9, 2019

Seven	Day Forecast	In-l	Depth L	ocal Fore	cast	T	oday's Lo	ocal Outle	ook	
N.	WEDNESDAY Sunny High: 50 Low: 36	humidity mph. The 2002. Ex	of 50%. record hig spect most	anny skies, hig Southeast win th for today is thy clear skies ". South south	d 3 to 7 65° set in s tonight,	Washington 51/36		Blue Rapid 18/34	Seni s 48	xa 34 0
数	THURSDAY Mostly Cloudy High: 52 Low: 38	could read	ch 28°.	wind chill fo	_	Clay Cer 50/35	nter	No.		m
-	FRIDAY Cloudy High: 50 Low: 36	Date 12/28 12/29 12/30 12/31	HVL9 27/16 28/15 48/25 39/17	40/17 40/17 40/17 40/17	Precip 0.00" 0.00" 0.00" 0.00"		Ogden 51/36	Mahattan 50/36	Wai 50/3	nego 6
業	SATURDAY Mostly Sunny High: 45 Low: 31	1/1 1/2 1/3 Rainfall .	20/13 38/18 50/19	40/17 40/17 40/17	0.00" 0.00" 0.00"	Abilen	52/.	action City 35	1	White and the second
NIL ST	SUNDAY Sunny High: 42 Low: 28	Normal ra Departure Average t Average t	ainfall e temp sormal		0.13* 0.13* 26.6* 28.5*	52/36	The second		Council (51/36	irove
Ally	MONDAY	This Week				s's Sun & Moon Chart				
ME	Sunny High: 43 Low: 29	First 1/14		Day Wednesday Thursday	<u>Sunrise</u> 7:45 a.m. 7:45 a.m.	Sunset 5:21 p.m. 5:22 p.m.	Moonrise 10:06 a.m. 10:37 a.m.	Moonset 8:51 p.m. 9:48 p.m.	(II)	Last
業	TUESDAY Mostly Cloudy High: 48 Low: 34	Full 1/21	No.	Friday Saturday Sunday Monday Tuesday	7:45 a.m. 7:45 a.m. 7:45 a.m. 7:44 a.m. 7:44 a.m.	5:23 p.m. 5:24 p.m. 5:26 p.m. 5:27 p.m. 5:28 p.m.	11:05 a.m. 11:33 a.m. 12:00 p.m. 12:29 p.m. 1:00 p.m.	10:45 p.m. 11:43 p.m. Next Day 12:42 a.m. 1:43 a.m.		New 2/4
L	ocal UV Index			Weatl	her Histor	y	Gr	owing De	egree D	ays
	5 6 7 8 9 10 w, 3-5: Moderate, 6-7: Hig y High, 11+: Extreme Exp	11+ h,	United Stat frozen for t	tes. At Portland two weeks. In S	d, Ore., the Co Southern Calif	ich of the wester olumbia River we ornia, temperatur usgrowing areas.	as 12/28	0 0	Date De 1/1 1/2 1/3	gree Day 0 0 0

FOR INFORMATION OR ESTIMATES:

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Website: www.rezaclivestock.com **AUCTIONEERS: DENNIS REZAC & REX ARB**

