Most farmers get a bill, not a check, with crop insurance

on something: Our homes, our cars, maybe even a special vacation or a treasured antique.

And, we all get bills in the mail to pay premiums on those insurance policies. When disaster strikes, and we have to use the policies we've paid for, we must first absorb part of the loss as a deductible before aid is received.

Farmers are no different, despite what farm policy critics might have you believe

As with any line of in-

surance, farmers receive crop insurance payments only when there are verified losses and only after shouldering a chunk of those losses themselves through deductibles.

More often than not, farmers pay into the crop insurance system and don't get indemnities at all. That's why it's often said with crop insurance, farmers get a bill, not a check.

An examination of recent USDA figures shows farmers purchased 2,364,338 policies between 2015 and 2016. Of claims, meaning 1,800,832 policies were not trig-

In fact, if we look further, we find that farmers spent \$7.2 billion out of their own pockets for insurance protection in 2015 and 2016. They also shouldered \$13.6 billion in losses as part of deductibles. Indemnities totaled \$10.2 billion, meaning farmers collectively put much more into the system than they got out.

This trend appears to have continued in 2017,

In other words, a bill, not a check. Exactly like insurance is supposed to

But farmers are not complaining about helping fund their own farm policy. Crop insurance is not about making money. It's about managing risk and paying into a safety net that kicks in when the worst happens so farmers can recover and continue to provide safe and affordable food for U.S. customers.

Farmers are happy to pay that bill.

Council Grove



COMM. CATTLE AUCTION EVERY FRIDAY





Our CONSIGNMENTS can now be viewed after 12 Noon on Mondays by going to WWW.Qrassandqrain.com & logging onto the online subscription For our first sale of 2018, light steers and heifers were selling \$4 to \$6 higher. Heavy

Easton

Waterville

Waterville

Waterville

Osage City

Osage City

Strong City

Manhattan

Wamego

Blaine

Blaine

MInneapolis

calves and feeder cattle that were carrying extra flesh were selling \$2 to \$3 lower. Cull cows and bulls were selling \$2-\$3 higher on the kind offered. STEER CALVES - 400-550 lbs

31EER CALVES — 400-330 lbs						
Olathe	24 blk	510@206.00				
Leonardville	16 blk	462@205.00				
Olathe	10 blk	426@201.00				
McClouth	6 blk	420@166.00				
Leonardville	8 blk	536@190.50				
Manhattan	6 blk	492@190.00				
Frankfort	8 Cross	503@185.50				
Burlingame	11 blk	541@182.00				
Alma	5 blk	544@178.00				
STEERS — 550-1,025 lbs						
Manhattan	6 blk	572@181.00				

/lcClouth	27 blk	583@181.00
Goff	7 blk	572@175.50
Dlathe	13 blk	601@174.50
Cedar Point	8 blk	559@174.00
Council Grove	9 blk	575@172.50
Burlingame	6 blk	598@171.50
Vaterville	12 blk	611@171.00
Alma	14 blk	612@170.50
.eavenworth	26 rd Ang	615@165.75
/lcClouth	11 blk	628@162.50
rankfort	5 Cross	604@160.00
/lcClouth	15 blk	666@158.00
.eavenworth	25 rd Ang	722@157.25
Interprise	27	660@157.25
Alma	24 blk	695@155.75
Goff	11 blk	684@155.75
Vaterville	16 blk	718@154.75

Frankfort

Wamego

Osage City

Enterprise

Oskaloosa

Waterville Oskaloosa

Frankfort

Wamego

Clifton

Linn

Barnes

Alma

Linn

Goff

Wilsey

00 25 25 75 75 658@152.50 11 blk 12 blk 664@152.25 766@150.50 6 blk 23 Cross 781@150.25 43 blk 757@150.00 744@150.00 801@149.75 16 blk 13 Cross 654@149.00 23 mix 630@148.50 12 blk 757@148.50 556@148.00 5 mix 10 blk 715@148.00 7 blk 776@148.00 22 blk 761@147.25

Cedar Point 6 blk 855@147.00 59 Cross 899@146.50 728@146.50 Cedar Point 18 Cross 20 blk 785@146.00 Council Grove 8 blk 750@145.50 864@145.25 23 cross Osage City 8 blk 814@144.00 Minneapolis Osage City 5 Cross 712@142.50 14 Cross 846@140.50

Cedar Point Cedar Point 5 blk 1021@134.50 **HEIFER CALVES** - 375-550 lbs Leonardville 9 blk 381@179.00 12 blk 388@179.00 Olathe Olathe 13 blk 489@161.00 Leonardville 500@158.50 McClouth 10 blk 545@158.00 Alma 6 blk 539@157.00 Wilsey 7 blk 493@157.00 McClouth 9 blk 505@156.50 425@156.00 McClouth 5 blk 10 blk 477@155.50 Burlingame McClouth 541@152.50 5 blk Goff 6 blk 536@152.00 513@151.00 Burlingame 10 bwf **HEIFERS — 550-875 lbs** Olathe 8 blk 581@156.25

20 blk	650@156.00
8 mix	553@152.50
15 blk	668@152.50
11 blk	574@151.00
10 bwf	681@150.00
6 blk	599@150.00
13 blk	634@150.00
21 blk	598@149.00
5 blk	573@147.50
19 blk	664@146.50
15 blk	694@146.25
52 Hereford	601@145.50
5 blk	598@145.00
7 blk	609@145.00
17 blk	671@144.75
5 Simm	659@144.50
37 Cross	661@144.50
	8 mix 15 blk 11 blk 10 bwf 6 blk 13 blk 21 blk 5 blk 19 blk 15 blk 52 Hereford 5 blk 7 blk 17 blk 5 Simm

5 blk

16 blk

14 blk

1 blk

1 blk

1 blk

1 rd Ang

10 HerefX

27 Cross 855@138.50 12 Cross 754@137.25 12 blk 816@134.75 6 Cross 820@134.50 BULLS — 1,250-2,500 lbs Westmoreland 1 blk 1270@90.50

679@142.00

756@141.75

789@138.75

753@138.50

1555@85.00

2005@77.00

1715@76.00

1880@76.00

1505@60.00

1665@60.00

Elmdale	1	blk	1655@73.50
Paxico	1	blk	1580@71.00
Goff	1	blk	1760@61.00
Goff	1	blk	1620@61.00
Rossville	1	Herf	2485@61.00
COWS & HEIFE	R	ETTES — 9	50-1,850 lbs
Olathe	1	blk	1020@129.00
Easton	1	Cross	970@128.00
Alma	1	blk	1180@115.00
Shawnee	1	blk	1060@97.00
Onaga	1	blk	1260@96.00
Hiawatha	1	Cross	1290@90.00
Westmoreland	1	blk	1205@88.50
Council Grove	1	blk	1840@66.00
Shawnee	1	bwf	1185@64.00
Olathe	1	blk	1355@62.50
Onaga	1	blk	1550@61.00
Goff	1	blk	1245@60.00

1 blk

1 blk

EARLY CONSIGNMENTS FOR JAN. 12

Onaga

Onaga

- 90 BWF & Herf strs & hfrs, 2 rds shots, long weaned, 500-600 lbs
- 59 Choice reputation Fink Genetics home raised replacement quality hfrs, no implants, 600-650 lbs, long time weaned, 2 complete rd shots
- 70 Choice reputation Herf yearling strs, green, 650-850 lbs
- 10 Herf hfrs, green, 600-700 lbs
- 45 Reputation Angus strs & hfrs, long weaned, 2 rds shots, 700-800 lbs 45 Choice Red Angus strs, long weaned, green, 2 rds shots, Red Angus
- source tagged, 600-625 lbs 17 Blk strs & hfrs, Spring shots, 450-550 lbs
- 20 Blk strs & hfrs, 2 rd shots, weaned 30 days, 600-625 lbs
- 90 blk SimmAngus X blk strs & hfrs, 2 rds shots, weaned 60 days, Bunk Broke, wormed & implanted, 650-800 lbs 30 blk strs & hfrs, long weaned, 500-650 lbs
- 49 older cows, some w/August 2 week calves, bulls turned in Oct., balance bred
- 102 choice reputation Angus & CharAngusX strs & replacement quality hfrs. 3 compl. rds shots, 625-825 lbs

Westmoreland 1 blk 1395@59.50 Alma 1375@57.00 1250@55.00 Elmdale 1 blk 1285@59.50 Clay Center 1 blk 1185@55.00 Council Grove 1 heref 1445@58.00 1 blk Alma 1 Cross 1335@57.50 Wheaton 1325@54.00 Shawnee 1 blk 1635@57.00 Goff 1130@48.50 1 blk 1 blk

1230@60.00

SPECIAL COW & BRED HEIFER SALE

WED., JAN. 17 starting at 11:00 AM **COMPLETE DISPERSAL CONSISTING OF:**

29 Fancy blk cows, 4 yrs to SS, bred SimmAngus bull for Mar 1 calving 1st & 2nd CALF BRED HEIFERS:

- 46 Blk, Blk baldy 1st calf hfrs, bred DD Angus bulls for Feb calving.
- 6 Blk 1st Calf OCV Hfrs bred to calving ease Angus bull for Feb-April calves **These are on a complete herd health program.
- 15 Home raised, gentle, Blk BWF 1st calf OCV hfrs, A-I bred to ABS "Front
- & Center" calving ease sire, May 4 2017, Cleaned up Fink Beef Genetics "Sitz Dash" son for 45 days. Female bloodlines include Complement, Conquest,
- SAV Pioneer & Right Answer. All shots incl. 1st rd Scour Bos 9 & Dectomax 16 Fancy Red Angus 1st calf OCV hfrs bred Ohlde bulls for Mar calves.
- 7 Char 1st calf OCV hfrs bred Ohlde bulls to start calving Feb 1.
- 20 Blk, BWF 1st calf OCV hfrs bred Ohlde bulls for May calving. 13, 9 Red Angus & 4 Blk Angus home raised 1st calf OCV hfrs, pelvic
- measured, A-I bred to Pinnacle Red Angus bull for Feb 20 calves, cleaned up with Pelton Red Angus bull for 45 days.
- 25 choice homeraised OCV Angus 1st calf hfrs Al bred to LBW Angus Dash Sitz due Feb. 4th. Clean up bull also Dash Sitz in for 65 days.
- 15 big gentle OCV pelvic measured Heref., bwf, & red neck 1st calf hfrs bred to Hoft LBW red Angus bulls for late March & April calves.
- 15 blk 2nd calf hfrs bred to Hereford bulls for March-April calves.
- 18 Blk Angus cows, 6 yrs & older, bred Angus for March calves. 11 Blk Angus Cows, 3-5 years, bred calving ease Angus bull for Feb-April
- 3 Blk Angus Cows, 6-8 years, bred calving ease Angus bull for Feb-April calves **These cows are on a complete herd health program.
- 9 Big fancy Angus 1st calf hfrs with early Dec Angus calves by side.
- 10 Angus cows, 5 yrs, bred to Downey Ranch & Cline Cattle Angus bulls for Mar thru April calves.
- 15 Blk & BWF 1st & 5- 2nd calf OCV hfrs w/ Angus sired Nov and a few Dec calves by side. Red Angus bull turned in Dec 30th, cows & calves all worked.
- 30 Blk, BWF cows, 3-6 yrs, w/ Angus sired Nov 1 thru Dec 16 calves by side.
- 10 Blk cows, 6 to 9, yrs bred Blk Angus for May & June calves 2 Blk cows, 5 to 7 yrs, bred Blk Angus 8 months.
- 10 Blk cows, 6 to 9 yrs, with Aug/Sept calves by side.
- 40 Home raised Red Angus OCV cows, 4 yrs & older, bred Pelton Red Simm Angus bull & Tailgate Red Simm Angus bulls due to start calving Mar 1 for
- 20 big blk & bwf cows, 5 yrs to older w/ late Sept.-Nov. Angus calves by side. Cows running back w/Fink Resource Angus bull since Dec. 5th.
- 20 homeraised SimmAngus & Angus cows bred to Angus & SimmAngus bulls for Feb. 15-April 15 calves.
- 14 SimmAngus & 6 Angus Fall calving 1st calf hfrs w/300 lb. Aug. & Sept. calves by side. Cows exposed back to Angus bulls since Nov. 1st.
- 80 blk cows 3 yrs & older, bred 6-8 mo.
- 30 red Angus & red Angus X Fall calving 1st calf hfrs w/ big 250-300 lb. Sept. calves by side, exposed back to red & blk Angus bulls since Nov. 25. Hfr calves all worked.

EARLY CONSIGNMENTS FOR JAN. 19

- 310 blk strs & hfrs, weaned, 2 rds shots, works, 500-800 lbs
- 100 Blk strs & hfrs, weaned Oct/ Spring shots, 600-700
- 75 choice reputation Angus strs & 45 Angus replacement quality hfrs, weaned Oct. 1, 2 rds shots, age & source verified, 600-750 lbs

UPCOMING SPECIAL COW SALE DATES, Wednesdays Starting at 11 A.M.: Jan. 17; Feb. 21; Mar. 14; Apr. 11; May 2 VISIT US ON THE WEB FOR DAILY CONSIGNMENT UPDATES AT WWW.MCCLIVESTOCK.COM

FIELD REPRESENTATIVES

ONAGA 785-889-4775 Cell: 785-532-8381

JOHN CLINE

BURNS 620-726-5877 Cell: 620-382-7502

BRENT MILLER ALMA 785-765-3467 Cell: 785-587-7824

ALAN HUBBARD OLSBURG 785-468-3552 Cell: 785-410-5011

MERVIN SEXTON MANHATTAN Cell: 785-770-2622 Home: 785-537-7295

BILL RAINE MAPLE HILL 785-256-4439

60 day calving.

TOM TAUL MANHATTAN

JEFF BROOKS **BEATTIE**

785-418-4524

LINN **BALDWIN** 785-348-5448 Cell: 785-447-0456

BRYCE HECK

SAM GRIFFIN

Cell: 785-633-4610 Cell: 785-556-1422

785-537-0036

785-353-2263 Cell: 785-562-6807

DAN COATES

Grass & Grain Community Obituary

Norma "Audeen" Reynolds 1927-2018



Norma "Audeen" Reynolds, 90, passed away Monday, January 1st, at Garten Countryside Home. She was born March 16, 1927 in Coyville, Kansas, the daughter of Malcolm W. and Ruth E. (Duckworth) Findley. Growing up, Audeen attended local schools and graduated from Fredonia High School and Western Union School. On

September 5, 1948, she was married to Dude Reynolds in Fredonia. Audeen had been employed by Western Union as a counter clerk and later as bookkeeper for Reynolds' Livestock Auction. Her husband, Dude, preceded her in death February 16, 1999. She enjoyed spending time with family and friends, church, cooking and cleaning. Audeen was also preceded in death by her parents; step-mother, Henrietta (Koch) Findley and son, Graydon Reynolds. She was very proud to be a member of the Trinity Lutheran Church and the Christian Women's Club.

Audeen is survived by: two sons, Dan (Georgia) Reynolds and Randy (Annette) Reynolds of Abilene; daughter-in-law, Sharlyn Reynolds of Abilene; step-daughter, Sherry (Dode) Mullen of Solomon; brother, Donald (Joyce) Findley of Edmond, Oklahoma; twelve grandchildren; twenty-three great-grandchildren; great-great-grandchildren; nieces and nephews.

The family has chosen cremation. Funeral services were held Monday, January 8th, at the Trinity Lutheran Church with Rev. Dr. Keith G. Less officiating. Private family inurnment will take place later.

KSU lab can now analyze forage samples

Kansas State University's Analytical Lab has expanded its services and can now analyze forage samples to give farmers and ranchers a clearer picture of what their animals are consuming.

The lab has primarily been a meat science lab for proximate analysis, but new lab manager Katie Hargrove said services have been expanded to include mineral and fiber analysis, and nitrate testing. It is located in Weber Hall on the Manhattan campus. Among the tests offered are moisture and dry matter content, crude protein, calculated total digestible nutrient analyses and more. More information is available on the website

https://www.asi.k-state.edu/about/facilities/Analytical-Lab.html or by contacting Hargrove at KHargrove@ksu.edu or 785-532-1276.

LAND AUCTION **SATURDAY, JANUARY 20, 2018 — 10:00 AM**

Offering for sale at public auction, located at Canton Fairground, 1514 27th Ave. — CANTON, KS 80 ACRES± MCPHERSON COUNTY PASTURE LAND

Spring-fed pond, Hunting & Recreational Opportunities! **ROYCE KLIEWER & ANITA REDDEN, SELLERS**

VAN SCHMIDT • Auctioneer/Real Estate 7833 N. Spencer Road, Newton, KS 67114 620-367-3800 or 620-345-6879 Schmidt Clerks & Cashiers • www.hillsborofreepress.com

Farmers National Company, 402-496-3276

FARM AUCTION

SATURDAY, FEBRUARY 3, 2018 — 12:00 NOON At the farm, 1523 20th Road, 3 miles north on Quivira Road, then 2 3/4 miles west of WASHINGTON, KANSAS





Allison 3060P automatic, AC, 20' steel bed, electric rollover tarp tandem, tag axle, white cab, red box

1997 Freightliner FL-70, Cummins 8.3L, Allison automatic, twin screw, Aulick 20 ft. silage box, rollover tarp, white cab and box

1969 Chevrolet C50, 350, 4 speed TRACTORS

1999 Case-IH MX 170, 2wd, 18.4x42 radials, axle mount duals, 3,819 hours

GB 760 front end loader, mounts for MX 170, 7' bucket w/grapple

1985 John Deere 4650, MFWA, 18.4x42 radials, duals, 9,895 hours, recent engine overhaul

Leon 12 dozer, mounts for JD 4650 1958 Allis-Chalmers D-17, shop built 3 pt, gas, power steering,

SN 12197 **COMBINE HEADS** 1992 John Deere 853A, 8 row 30 inch row crop head

International 883, 8 row 30 inch corn head **FARM EQUIPMENT**

2005 Kinze 3500, 8 row 30 inch planter, liquid, row cleaners, edge vac, plate type, KPM-2 monitor; 1997 Great Plains 3000 3-S Solid Stand grain drill, 10,000 acres; Demco 750 grain cart, 1,000 pto, rollover tarp; Case-IH 4300, 33 ft. field cultivator, w/harrow; 2010 Case-IH 340, 25 ft. tandem disc; Ficklin 325 bushel gravity wagon, hydraulic auger; Dakon 350 bushel gravity wagon, hydraulic auger John Deere 712 mulch tiller, original shovels; Westfield 8x71 pto auger; Pallet forks for GB 760 loader; Hagie "high boy" sprayer, Ford gas engine, hydrostat, 30 ft. Speidel wiper; RHX 500 gallon pull type sprayer, 54 ft. booms; White 588 on land hitch plow 6x18 or 20; Fuerst 42 ft. chain harrow; Fuerst 36 ft. chain harrow, on CB frame; Honda Foreman Four Trax ATC; Honda ES4500 generator; Pincor pto generator; DeWalt upright air compressor, welding & shop tables, floor jack, Poulan chain saw, wrenches, other hand and power tools bolt set, old machinery, grain drills, pickup trailer, fuel tanks, spray ers, listers, trailers, 3 pt. blade, rotary hoe, CB cultivator, tanks.

Terms: cash or good check. Not many small items; be on time. Loader on site. Lunch.

LEROY & DONNA LONG

Bott Realty & Auction Lee Holtmeier, Raymond Bott Washington, KS • 785-325-2734 www.BottRealtyAuction.com

Professional Real Estate and Auction Service.

Jack Riley, former K-State ASI head, passes away of K-State's Department Professor emeritus and nois University where he

former KSU ASI department head, Dr. Jack Riley of Manhattan passed away December 26.

He was born to Russell and Marie Riley of Hamilton, Mo. on July 2, 1940.

Survivors include his wife of 54 years, Jan, two sons, Bryan of Washington D.C., Steve and wife Kelley of Bucyrus; two grandsons, Cole and Cooper, also Jim Riley, brother, of Colorado Springs, Co., niece Candy Brooks (Andy) of Colorado Springs, Co., and nephew Tom Riley (Beth) of KanHe obtained his B.S.

(1962) and M.S. (1963) degrees in Animal Science from the University of Missouri. From 1963 to 1965 he served as Extension livestock specialist and from 1965-1966 was an instructor, both in the University of Missouri, Animal Science Department. He returned to college and received a Ph.D. In Ruminant Nutrition from the University of Missouri in 1968. He accepted a full-time teaching position in Animal Science at Western Illistayed until 1971 at which time he moved to the Kansas State University Department of Animal Sciences and Industry.

Dr. Riley was active in beef cattle research, especially in the areas of protein requirements, crop residue utilization, and feed additives. He loved teaching and advising students, and taught more than 7,000 students over 35 years in the classroom. He was faculty coordinator of the beef research unit for 16 years. In 1987 he became head of Animal Sciences and Industry for 17 years.

He enjoyed many hobbies such as going to K-State sports events, fishing, morel mushroom hunting, reading, and going to auctions.

Jack was a 40-year member of the First United Methodist Church. He was a Fellow in The American Society of Animal Science and served as officer and or director of many professional and university organizations including Manhattan Ro-

Kansas Agricultural Technologies Conference takes place January 18-19 in Junction City overall farm business Technology changes Approaches to Variable

rapidly in every aspect of life. For farmers, keeping up with changes in equipment, analysis methods and best practices can make a major difference in their productivity and, ultimately, their bottom From aerial crop-moni-

toring drones to driverless tractors, the present and future of Kansas agriculture takes center stage at the Kansas Agricultural Technologies Conference Jan. 18-19 at the Geary County Convention Center, 310 Hammons Dr., in Junction City. The conference is spon-

sored by the Kansas Ag Research & Technology Association (KARTA) and K-State Research and Extension. KARTA designs the an-

nual conference to be a thought-provoking forum for the exchange of information about new and old technologies with a focus on supporting scientifically valid on-farm research efforts and increasing profitability. On-site registration be-

gins at 8 a.m. on Thursday, Jan. 18. The opening session features a look at how a Nebraska service provider has made precision ag work for his clients. Among other session

topics are:

Are you harvesting your most important assets?

Vendor presentations The Internet of Machines A 5 p.m. social hour and

poster session will be followed by dinner at 6 p.m. Following the dinner will be a 7 p.m. keynote titled "The Next Step in Data Collection," presented by Jeremy Wilson of Crop IMS. The evening session a lively interactive discussion between the presenter and attendees.

The second day's featured presentations in-

Optimizing Every Plant with Automation A "rapid-fire" session

of Precision Ag Research Updates from KSU faculty Rate Nitrogen Throughout the confer-

peers how to put technol-

ogy to work collecting and

analyzing data in ways that

can benefit their farm op-

erations. Ample time will

be available to question

ence, KARTA members will make presentations on research conducted on their farms with financial help from KARTA. Presenters will show their

speakers, visit with vendors and share with other conference participants. Among the research conducted last year and

presentations are: Gypsum Soil Amendment Evaluation

eligible to be featured in

Comparision of Soil Sampling Approaches Using Yield History to

Cover Crops in Irrigated Continuous Corn

Predict Soil P

Corn N Rates Follow-

Grain Sorghum Seeding

Soybean Seeding Rates versus Planting Date and

Thermal Cameras in Ag Ascend in Irrigated Corn

Long Term Impact of Canola on Following Crops

Farm Data Privacy Legal Issues The annual KARTA

business meeting also will take place during the conference. Admission for both

days costs \$275 and in-

cludes meals and refresh-

ments. Attendees can save \$50 by registering online on or before Jan. 10. Agriculture students at any Kansas post-secondary school are eligible for a reduced rate of \$75 per Funds raised through registration fees will be used to provide 2018 re-

nology workshops that are held in various locations across the state. To register online or download a printable

search grants and tech-

schedule and registration form, visit: www.karta-online.org/events.

Monsanto Company shares 2018 crop protection incentive offerings The incentive was re-Max with VaporGrip Tech-

Monsanto Company will provide growers with multiple offerings for the 2018 growing season, including tools, resources and products to help them maximize weed control in the field.

This year's featured offer allows soybean growers to earn an additional \$6 more per acre in cash back when they apply Xtendi-Max® herbicide with VaporGrip® Technology, now a restricted use pesticide, to their Roundup Ready 2 Xtend soybeans along with endorsed herbicides from Roundup Ready PLUS® Crop Management Solutions. Incentives are also available when growers use XtendiMax with VaporGrip Technology with endorsed herbicides from Roundup Ready PLUS Crop Management Solutions on cotton with Xtend-Flex® Technology.

cently announced by Monsanto for the 2018 growing season and is designed to help growers boost profitability while effectively managing their toughest weed challenges. "The Roundup Ready

Xtend Crop System provides farmers the tools. resources and products for effective weed control," said Ryan Rubischko, product manager and marketing lead. "With the incentive this coming season for using XtendiMax with VaporGrip Technology, growers also now have a way to better manage difficult-to-control weeds and their bottom line."

Under the offer, participating farmers who plant Roundup Ready 2 Xtend soybeans can qualify for an additional \$6 more per acre in incentives when they incorporate Xtendinology along with endorsed herbicides from Roundup Ready PLUS Crop Management Solutions. Cotton growers planting varieties containing XtendFlex Technology can qualify for an additional \$5.50. Besides offering the

cash back incentive from Roundup Ready PLUS Crop Management Solutions, Monsanto is also taking steps to support customers who use the Roundup Ready Xtend Crop System successfully in 2018, including: Expert Recommenda-

tions based on crop and region **Education and Training**

to help growers stay upto-date on important agronomic issues based on learnings from 2017 Cash-Back Incentives

when growers use endorsed herbicides with multiple modes of action Free Spray Nozzles that

are compliant with prod-

Technical Support Call Center (1-844-RRXTEND) to help applicators easily access information on best practices and application requirements

Spray App for applicators to help them avoid problematic weather conditions to achieve on-target applications

Free Roundup Ready Xtend Crop System Flags as a part of grower technology support

"We believe cashback incentives for using XtendiMax with Vapor-Grip Technology better enable growers to use a management system that represents the next level of weed control, with the added confidence of being backed by Monsanto's training tools and toll-free

To find out more about qualifying herbicides and the cash-back incentive, growers can go to RoundupReadyPLUS.com.

help line," said Rubischko.

RETIREMENT FARM MACHINERY UCTION

SATURDAY, JANUARY 20, 2018 12:00 NOON ★Lunch on the Grounds! **Auction located** from the Jct. of Hwy. 99 & Hwy 16 at the South end of **BLAINE**, **KS**, go 2 1/2 mi. West on Hwy. 16 to Knight Rd., then just

North on Knight to Davis Rd., then 1/10 of a mile West to 11415 Davis Rd., Blaine, KS 66549 (Blaine, KS is located 14 mi. South of FRANK-FORT, KS or 7 mi. North of WESTMORELAND, KS on Hwy. 99). TRACTORS & LOADERS inc. 1990 JD 8760 • 2003 Dagleman 2-way 12' dozer blade • 1996 JD 8100 FWA • 1995 JD 7800 FWA • 1993 JD

7800 FWA • 1980 JD 4040 • pr clamp-on duals • 2 JD 740 loaders • grapple fork. **COMBINES, HEADERS & TRAILERS inc.** 2006 JD 9760 combine • 2010 JD 630F 30' flex header • 1998 JD 9610 Contour Master combine • 2004 JD 930 30' Countour Master flex header • 1997 JD 922 22' Countour Master flex head • 2 JD 643 6R 30" cornheads • 30' Series I BBK header trailer • 30' pintle hitch header trailer AG MANAGEMENT SOLUTIONS EQUIPMENT

PLANTERS: 2005 John Deere 1770 12 row, 30" planter w/dry fert. single disc fert. openers, Martin trash whippers, Schlagel closing wheels Graham auto row shut offs & control system, Precision meters & plates, variable rate capability, SN – F710153, Always Shedded – Completely rebuilt Spring 2017; 1994 John Deere 7200 12 row 30" planter, SN G700840, single disc fert. openers, dry fert. attachment, Martin trash whippers, Schlagel closing wheels, Precision meters and plates, right and left shut offs, w/ JD No. 250 monitor - Always Shedded - Completely rebuilt Spring 2017; **2000 John Deere 1750 6 row, 30" planter**. SN – HO1750R685436, dry fert. w/single disc fert. openers, Yetter trash whippers, Schlagel closing wheels, all new Precision meters & plates

w/JD No. 250 monitor – Always Shedded – Completely rebuilt Spring 2017; *All in very good condition!* DRILL: 1994 Crustbuster 4000 All HAYING EQUIPMENT, SPRAYER, ANHYDROUS APPLICATOR TILLAGE & OTHER MACHINERY, GATOR, PICKUPS, TRUCKS &

TRAILERS, GRAIN BINS (to be moved) See last week's Grass & Grain for listings or visit our website! SELLER: R & R SUTHER FARMS

Ralph, Ron & Dan Suther For more info, please call Ron Suther, 785-457-3440 H or 785-556-0251 C

Auction Conducted By: CLINE REALTY & AUCTION, LLC ONAGA, KANSAS • 785-889-4775 John E. Cline, Broker-Auctioneer, 785-532-8381

www.mcclivestock.com/clinerealty

Austin Cline, Auctioneer, Frankfort, KS • 785-565-3246

AUCTION LOCATION: St. Columbkille Catholic Church Hall, along Hwy. 16 in BLAINE, KS

SATURDAY, FEBRUARY 10, 2018 — 1:30 PM

ESTATE AUC

312 AC., M/L, OF POTTAWATOMIE CO., KS FARMLAND, NATIVE PASTURE, MEADOW & EXCELLENT WILDLIFE HABITAT

Tract 1 Property Location: From the Jct. of Hwy. 99 and Hwy. 16 at the South end of Blaine, KS, go 1 1/4 mile West on Hwy. 16, along the North side. LEGAL DESCRIPTION: South Half of the Southeast Quarter of Section 32, Township 6 South, Range 9 East of the 6th P.M.,

Pottawatomie Co., KS. Tract 1 consists of 75 acres, M/L, of which 51.5 acres are tile ter aced corn stubble, 4.59 acres are expired CRP grass with the bal-

ance of 19 acres in hay meadow and a draw with wildlife habitat. This property has Hwy. 16 and Rock Creek Rd. frontage, making for good access and building site potential. Rural water line runs on property.

SELLERS: R & R SUTHER FARMS Tract 2 Property Location: From the Jct. of Hwys. 16 and 99 at the South end of Blaine, KS, go 1/4 mile West on Hwy.16, then 1 1/4 West on Bucksnort Rd., along the North side.

LEGAL DESCRIPTION: The Southwest Quarter and the West Half of the Southeast Quarter of Section 29, Township 6 South, Range 9 East of the 6th P.M., Pottawatomie County, KS. Tract 2 consists of 237 acres, M/L, of which 31 acres are crop

acres (per FSA records), with the balance of 206 acres being native grass, creek, hardwood timber and wildlife habitat. This

property has excellent turkey and deer hunting potential. This property has 3/4 mile of Bucksnort Rd. frontage. There is a vacant farmstead on the property. Electric service is available. **SELLERS: MATT & KIM SUTHER**

AUCTIONEER'S NOTE: Come take a look at these properties that offer a great deal of potential! For more info. or viewing, please call John E. Cline, 785-532-8381 or check website at: www.mcclivestock.com/clinerealty Terms & Possession: The sellers require 10% down payment day of sale with the balance to be paid on or before March 15, 2018 Possession will be upon closing. Buyers and sellers to equally split title insurance and closing costs. Purchaser to pay all of 2018 taxes Statements made sale day take precedence over printed material

Cline Realty and Auction represents the sellers' interests Auction Conducted By: CLINE REALTY & AUCTION, LLC John E. Cline, Broker-Auctioneer, 785-532-8381 ONAGA, KANSAS • 785-889-4775 www.mcclivestock.com/clinerealty

Crop schools to be held in the area

By Tyler Husa, Crop Production **Extension Agent. River Valley Extension District**

It's essentially the middle of winter, ground frozen, and ironically we have the ongoing thought of crop production for the upcoming year. We are very fortunate to have one close opportunity in Salina (Central Kansas District) as well as another great opportunity in the River Valley District. Kansas State Research and Extension is pairing up with the Kansas Soybean Commission to bring you the 2018 Soybean schools in the Central Kansas District and Kansas State Research and Extension is also pairing up with the Kansas Grain Sorghum Commission to bring you 2018 Sorghum Schools, in the River Valley District in Washington.

There will be three soybean schools and three sorghum schools throughout the state of Kansas and we are fortunate to have two in such a close proximity. The River Valley District will be hosting the 2018 Sorghum School on February 8, 2018 from around 8:30 am to 2:30 p.m. (with lunch included

courtesy of the Kansas Grain Sorghum Commission) in the FNB basement at 101 C St., Washington, KS 66968. Topics to be discussed include: weed control strategies, production practices, insect and disease management, nutrient fertility, and more pertaining to sorghum production. Be sure to give Tyler Husa a call at 785-243-8185 or email at thusa@ ksu.edu to pre-register before January 31, 2018 or online at http://bit.ly/KSSOR-GHUMSchools.

Another close opportunity is in Salina. with the 2018 Sovbean Schools. The Soybean school will be held on January 23, 2018 at the Webster Conference Center in Salina. Many of the same topics will be covered as the sorghum school, but this time tailored to soybean production including: weed control strategies, production practices, insect and disease management, nutrient fertility, and more. Please be sure to register before January 17, 2018 with Tom Maxwell in the Central Kansas District at 785-309-5850 or at tmaxwell@ksu.edu. We look forward to seeing you at both

K-State Junior Sheep, **Beef Days scheduled**

The Kansas State University youth livestock program, K-State Research and Extension, and the K-State department of animal sciences and industry will be hosting two junior producer days in the spring of 2018.

The Junior Sheep Producer Day will be Saturday, March 17 and Junior Beef

Producer Day is on Saturday, March 24. Both events will be held in Weber Arena in Manhattan. The junior day programs are a one-day educational opportunity for youth, par-

ents, project leaders, agents, and other adults to increase their knowledge about youth livestock production and management. All ages are welcome, but all attendees

These are biennial events, with sheep and beef days hosted in even years and the swine and meat goat in odd years.

The cost for each junior day is \$15 per person for those who register by the early deadline, and \$20 per person for those who register after the deadline. Please note, any registrations received after the early deadline cannot be guaranteed a t-shirt.

Register online at http://bit.ly/ksuasiregister, or download a registration form at http://bit.ly/ksujrproducerdays. The early registration deadline is Feb. 23 for Junior Sheep Producer Day, and March 2 for Junior Beef Producer Day.

More information is available at www.youthlivestock.ksu.edu. For questions, please contact Lexie Hayes, youth livestock coordinator, at adhayes@ksu.edu or 785-

Looking forward: KORUS benefits U.S. feed grain exports

A long tradition of partnership and dedicated interaction by organizations like the U.S. Grains Council (USGC) has established South Korea as one of the largest and most loyal trading partners for the United States.

The United States and South Korea began to formally examine the U.S.-Korea Free Trade Agreement (KORUS) during recent talks in Washington, D.C. Emphasizing the benefits of KORUS to further solidifying and expanding exports is an important part of that discussion.

"Korean consumers and traders recognize the United States as a leading origin for imported agricultural goods of good quality and value," stated a November 2017 Global Agricultural Information Network (GAIN) report by the U.S. Department of Agriculture's (USDA's) Foreign Agricultural Service (FAS). "(KORUS), implemented in March 2012, coupled with ongoing recovery of the Korean economy should generate greater export opportunities for American products in Korea in the coming years.

The KORUS agreement offered kev market access provisions for U.S. feed grains and co-products, including immediate duty-free access for U.S. corn and sorghum exports. The agreement also includes a 2,500-ton (nearly 115,000 bushels) duty-free quota for U.S. barley, which increases 2 percent each year while full tariffs are phased out, as well as important provisions offering increasing market access for beef, pork and poultry products.

As a result, U.S. exports of feed grains in all forms to South Korea have steadily increased, reaching 8.32 million metric tons in 2016/2017, a 57 percent increase year-over-year. The 2016/2017 sales numbers include a six yearhigh for U.S. corn at 5.6 million tons (220 million bushels), placing South Korea as the third-largest world buyer.

In addition, 96 percent of feed millers in South Korea now include U.S. distiller's dried grains with solubles (DDGS) in their rations for the country's livestock and poultry industries, thanks in part to work started by the Council in 2004 to introduce this feed ingredient. As the third largest buyer of U.S. DDGS in 2016/2017 at 980,000 tons, South Korea set a new record for imports, which the country has done every year since 2010/2011. Now the Council is working to increase inclusion rates for U.S. DDGS, which would provide additional opportunities for increased ex-

"South Korea is already U.S. agriculture's fifth-largest export market," stated another FAS GAIN report, issued in December of last year. "Still, the unique market dynamics between South Korean consumption and economic expansion, U.S. production cycles, and the history of our bilateral relationship, demonstrate the special value of the (Republic of Korea) market for American agricul-

"Given the increasing number of Korea's FTAs with other trading partners, even marginal real or future assumed tariff advantages can have an important impact on Korean buyers, especially those processing inputs into finished products for local consumption."

South Korea has existing free trade agreements with 52 countries. The Korean government is also actively looking at trade agreements with both MERCOSUR (South America's trading bloc) and Russia, meaning the United States needs the market access provided by KORUS in order to remain competitive in this market.

The Council celebrat-

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ed 45 years of working in South Korea in 2017 during a joint officers mission with the National Corn Growers Association (NCGA) in November 2017. During the mission, leaders from both organizations recognized how the KORUS agreement shifted decades of market development into record exports to the East Asian

"Our customers told us they have options too," said Deb Keller, USGC chairman from Iowa, in an audio interview about the joint officers mission. "The Council will maintain a strong presence in the South Korean market and work to keep communication lines open across feed, food and energy sec-

Call us for Catalogs, Sale Flyers, Magazines, Calendars, Brochures, Books, Newspapers and ask for Sandra

Conducting a prescribed burn – are you ready?

By David G. Hallauer, **District Extension Agent.** Crops & Soils/Horticulture

Fire on the prairie has been around as long as the prairie itself. Fortunately, we've moved from wildfire to prescribed burn and the benefits to land, structures, and livestock have been great! As we approach another prescribed burning season, are you prepared?

The key to keeping a prescribed burn from becoming a wildfire comes in that preparation. That means that right now -January – you should be thinking about what equipment you'll need and preparing the site for a burn that may occur in weeks from now on our cool season pastures (yes... late February or early March often signal go time for cool season grass burn). Make sure all pumps, hoses, and tanks on firefighting equipment are in good working order. Is your pump properly sized for the flow needed for putting out a fire? Some ATV sprayers may

work correctly? Are hoses in good working order? A prescribed burn needs to occur in our very short window of opportunity. Safety should not be compromised and a burn may need to be canceled if equipment isn't ready.

Ask yourself as you plan – why am I burning? What benefit is this fire going to do for my forage stand or wildlife habitat? Cool season grasses do NOT respond to fire like warm season prairie grasses do. In fact. if burned too frequently, stands can be harmed. Further, if you are trying to take out brush or taller cedar trees, do vou have enough fuel, and will the appropriate time? If ample fuel loads are not available to burn up small cedar trees, or if burns have to be conducted in late February and early March (as most of our cool season grasses require). in most cases, brush control will not be as effective as you'd like. At that point, other management options may be better op-

Last, but certainly not least - have you given appropriate attention to safety? Have you obtained the proper permits required by local authorities to conduct the burn? Do you have proper clothing, equipment, and tools to safely spread and quickly put out fires? Do you have a back burn or tilled area or laid out other methods to prevent fire spreading to places you don't want it to? A formal burn plan with efforts coordinated by a burn boss is key to making sure that the burn achieves its desired objective in a manner safe to man, machine, and structure. Much of that effort that when it's time to start the prescribed burn, you are ready to go.

Need a burn plan? Your local NRCS Office or wildlife biologist can likely help. Our District Extension offices have numerous resource publications available to help you plan, as well as a video available for checkout if you want to learn some techniques. Contact us if you want to discuss a prescribed burn and whether it's right for you!



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AUCTION LYON COUNTY, KANSAS

THURSDAY, FEBRUARY 8, 2018 — 7:00 PM

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not be. Do pump engines tions to achieve your de-Central Kansas Market Grower &

Vendor Workshop slated in February Locally grown vegetables are fresh, delicious, and can boost the local economy. The ninth annual Central Kansas Market Grower & Vendor Workshop, sponsored by Sedgwick, Butler, Harvey, and Reno County Extension and the Kansas Department of Agriculture, will give both beginning and experienced vegetable growers new skills to improve their production methods and marketing skills for selling their local vegetables, while meeting an increasing demand for locally grown produce. The workshop is combined with a regional farmers' market vendor workshop

held Saturday, February 3. 2018 from 8:45 a.m. to 4:15 p.m. in 4-H Hall at the Sedgwick County Extension Education Center at 21st and Ridge in Wichita. Cost of registration is \$20 by January 26th and \$25 after that. The registration deadline is Wednesday, January 31st. Register online at http://sedgwick.ksu.

edu or by calling 316-660-

done by Kansas Depart-

The workshop will be

ment of Agriculture.

The workshop topics include organic weed and disease management. Senior Farmers' Market Nutrition Program training. research updates, agritourism, beekeeping, and more. The Keynote speak-

Midwest Farm & Dairy

Tim Deters

er will be Greg Garbos of City Bitty Farm, Four Season Tools, and AgRoofs. He will be speaking on Scale, Systems & Season Extension.

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

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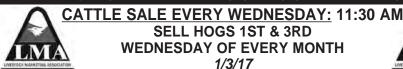
WEDNESDAY OF EVERY MONTH

1/3/17

1705@74.50

1975@74.50

923@148.75



Hope, 1 red

Marion, 1 rwf

Marion, 1 bwf

Ramona, 1 blk

Herington, 1 rwf

cows 2000@65.00 1495@64.50 1530@64.50 1830@64.50 1315@63.50 1695@63.00 1545@62.00 1420@61.50

Ramona, 1 blk Burdick, 1 bwf Herington, 1 bmf Hope, 1 red 1545@61.00 1370@60.00 Marion, 1 rwf 1470@59.50 Marion, 1 rwf

BULLS 1925@80.00 Tampa, 1 Char

Tampa, 1 Char Ramona, 1 red White City, 1 rwf Ramona, 1 red

Hope, 5 blk Herington, 131 mix 939@154.50

Hope, 5 blk Burdick, 60 mix

Hope, 62 mix

617@157.50

Herington, 13 blk 760@153.75 Ramona, 59 mix 832@151.10 Herington, 28 blk 848@151.00 704@150.50 864@149.75 Burdick, 59 mix 827@149.00

1845@72.50 Herington, 60 mix 1510@70.00 Burdick, 13 mix Woodbine, 4 blk Hope, 5 blk Woodbine, 18 mix 1039@134.00 Burdick, 4 mix HEIFERS

Herington, 13 mix

Lincolnville, 60 mix 867@148.00

957@148.00

990@143.85

916@140.00

940@140.00

959@140.00

855@130.00

Durham, 32 red 648@146.50 Herington, 26 blk 771@140.50 804@138.00 Durham, 60 red Woodbine, 8 blk 1005@122.25

CONSIGNMENTS FOR JANUARY 10:

 25 blk strs home raised, long time weaned, 2 rnds shots, 700-750 lbs 40 blk bwf strs & hfrs home raised,

long time weaned, 2 rds shots, hfrs guaranteed open, 750-850 lbs 75 red & blk Angus strs & hfrs,

home raised, long time weaned, 2 rnds

time weaned, 2 rds shots, 700-850 lbs

70 red & blk strs & hfrs home raised,

60 days weaned, 3 rds shots 500-700 lbs

80 blk & red strs, home raised, 45

shots, hfrs guaranteed open, replacement quality, 600-700 lbs 55 blk bwf strs, home raised, long

days weaned, 2 rds shots 600-700 lbs • 16 red & blk hfrs home raised, 120 days weaned, no implants, 3 rds shots, 625-675 lbs

80 mostly blk hfrs 775-800 lbs

• 60 mostly blk strs 875 lbs • 60 mostly blk strs 875 lbs

• 58 mostly blk strs 875 lbs

60 Char X blk strs 850 lbs (pending)

• 60 mostly blk strs 875 lbs 120 mostly blk strs 925 lbs 110 mostly blk strs 925 lbs (pending)

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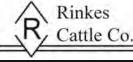
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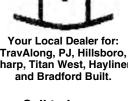
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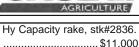
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KDA to host emergency response training workshop in Wichita

Grass & Grain, January 9, 2018

will host a one-day emergency response training workshop in Wichita on Thursday, Jan. 11, for individuals who are interested in participating in the Kansas Agriculture Emergency Response Corps. The workshop will walk through an emergency response orientation for volunteers who would like to participate in the new response corps program.

The workshop will be held at the Sedgwick County Extension Education Center at 7001 W. 21st St. N. It will go from 8:30 a.m. until 4:00 p.m., and lunch will be provided to those who RSVP. It will include completion of some FEMA training courses related to incident management. There is no cost for the workshop, and it is open to anyone interested in learning more about responding to agricultural

incidents; you do not have to be signed up for the volunteer corps already, but participants will receive more detailed information about the program.

The new agriculture emergency response corps began in 2017 as a comprehensive volunteer corps to address agriculture emergency response. It is made up of volunteers representing a broad range of skills who will be trained and prepared to respond rapidly and efficiently to an agricultural emergency. Additional training workshops will be held in other regions of the state throughout 2018. For more information about the Kansas Agriculture Emergency Response Corps, go to agriculture.ks.gov/KAERC or contact David Hogg, KDA assistant emergency management coordinator, at 785-564-7468 or David.Hogg@ks.gov.

Winter Water Technology Expo to be held in Garden City Jan. 11 Farmers and ranchers in southwest Kansas who are eager to learn more about

improving water management through technology, soil moisture monitoring, crop selection and other tools are invited to attend the Winter Water Technology Expo on January 11 in Garden City. The Expo, held at the Clarion Inn at 1911 E. Kansas Ave. in Garden City from 4:00 to 8:00 p.m., will feature a wide variety of companies and organizations focused on water technology issues and opportunities. Attendees will be eligible for great door prizes, including two Phytech systems,

corn or bean seed from Hefty Seed Company, corn seed and grain sorghum from Allied Genetics, corn and Alta Sorghum seed from Sterling Seed, and corn seed from Hoegemeyer Hybrids. Heavy hors d'oeuvres and Kansas beer and distillery beverages will be provided throughout the evening. The Winter Water Technology Expo is free and open to the public, but participants are encouraged to RSVP to susan.metzger@ks.gov to assist in having adequate refreshments. The Winter Water Technology Expo is brought to you by local volunteers with a

strong interest in the area's water resources, with help from the Kansas Department of Agriculture's Division of Water Resources and several generous sponsors. For more information, go to www.agriculture.ks.gov/WaterTechExpo.

Study shows differences in energy digestibility between sows and gilts also no difference in con-Gestating sows digest also fed 24 gestating sows centrations of digestible

energy in diets more efficiently than growing gilts. A recent study from the University of Illinois is shedding light on some of the reasons why. "There are a number of factors that might explain

the difference in energy digestibility between sows and gilts," says Hans Stein, professor in the Department of Animal Sciences and the Division of Nutritional Sciences at U of I. "Growing pigs are al-

lowed to eat as much as they want, but sows are generally restricted in their feed intake. This may affect the absorption of nutrients from the digestive tract and thereby increase the efficiency of digestion," he says. Stein and Ph.D. candidate Gloria Casas de-

signed an experiment to separate the effects of physiological stage and feed intake level. They fed diets containing corn, soybean meal, and rice bran to 24 growing gilts at 3.5 times their maintenance energy requirement. They

at 3.5 times maintenance, and 24 more sows at 1.5 times maintenance. The apparent total tract

digestibility (ATTD) of gross energy and organic matter in diets was greater in gestating sows than in growing gilts, but the ATTD of dry matter and neutral detergent fiber (NDF) was not influenced by the physiological stage of the animals. The concentrations of digestible and metabolizable energy in diets were greater for gestating sows than for

that there is a difference in energy and nutrient digestibility between sows and growing gilts," Stein says. "However, they provide evidence against the hypothesis that level of feed intake is responsible for the difference." In fact, there was no difference between sows fed

3.5 times maintenance and

sows fed 1.5 times main-

matter, or NDF. There was

Stein. "However, these results are evidence against that explanation. Sows didn't digest fiber any better than growing gilts." Stein offers another

and metabolizable energy.

ibility of energy in diets

fed to sows has been ex-

plained by various factors,

including more efficient

fermentation of fiber in

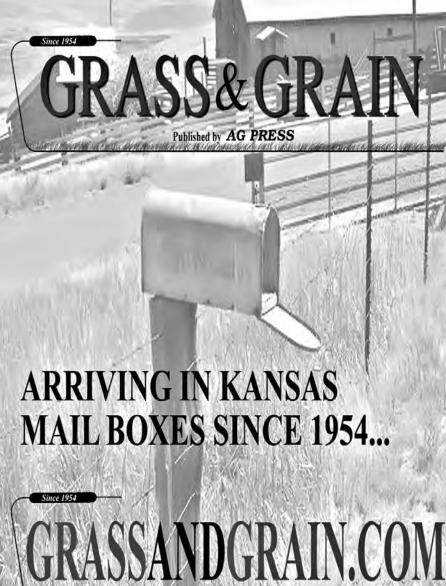
the large intestine," says

"The increased digest-

possible reason for the difference in energy digestibility between sows and growing gilts. "It is possi-"The results confirmed ble that sows digest starch or lipids more efficiently than growing pigs, but we would need to do more research with ileal cannulated animals to test that hypothesis."

sows have greater digestibility of energy in full fat rice bran and defatted rice bran than growing gilts regardless of level of feed intake," is published in the tenance in ATTD of gross Journal of Animal Science. energy, dry matter, organic

The article, "Gestating



...ONLINE SINCE 2007.

Engineers make wearable sensors for plants, enabling measurements of water use in crops

ty plant scientist Patrick Schnable quickly described how he measured the time it takes for two kinds of corn plants to move water from their roots, to their lower leaves and then to their upper

This was no technical. precise, poster talk. This was a researcher interested in working with new, low-cost, easily produced, graphene-based, sensorson-tape that can be attached to plants and can provide new kinds of data to researchers and farm-

"With a tool like this. we can begin to breed plants that are more efficient in using water," he said. "That's exciting. We couldn't do this before. But, once we can measure something, we can begin to understand it."

The tool making these water measurements possible is a tiny graphene sensor that can be taped to plants - researchers have dubbed it a "plant tattoo sensor." Graphene is a wonder material. It's a carbon honeycomb just an atom thick, it's great at conducting electricity and heat, and it's strong and stable. The grapheneon-tape technology

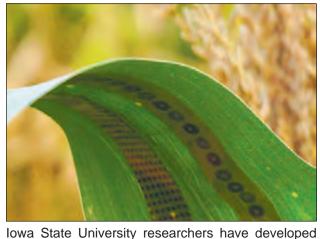
Iowa State Universithis study has also been used to produce wearable strain and pressure sensors, including sensors built into a "smart glove" that measures hand move-

Researchers describe the various sensors and the "simple and versatile method for patterning and transferring graphenebased nanomaterials" to create the flexible sensors in a paper featured on the cover of the December 2017 issue of the journal Advanced Materials Tech-The research has been

primarily supported by the Faculty Scholars Program of Iowa State's Plant Sciences Institute. Liang Dong, an Iowa

State associate professor

of electrical and computer engineering, is the lead author of the paper and developer of the technology. Seval Oren, a doctoral student in electrical and computer engineering, is a co-author who helped develop the sensor-fabrication technology. Co-authors who helped test applications of the sensors are Schnable, director of Iowa State's Plant Sciences Institute, a Charles F. Curtiss Distinguished Professor in Agriculture and Life Sciences, the Iowa



these "plant tattoo sensors" to take real-time, direct measurements of water use in crops.

Photo courtesy of Liang Dong a liquid graphene solution

to the block, filling the in-

dented patterns. They use

tape to remove the excess

graphene. Then they take

another strip of tape to

pull away the graphene

patterns, creating a sensor

The process can pro-

duce precise patterns as

small as five millionths of

a meter wide - just a twen-

tieth of the diameter of the

average human hair. Dong

said making the patterns

so small increases the sen-

(The process, for exam-

ple, produced a detailed

image of Iowa State's Cy-

clone mascot that was

less than two millimeters

across. "I think this is

The Kansas Department

of Agriculture, K-State Re-

sitivity of the sensors.

on the tape.

Corn Promotion Board Endowed Chair in Genetics and the Baker Scholar of Agricultural Entrepreneurship; and Halil Ceylan, a professor of civil, construction and environmental engineering.

"We're trying to make sensors that are cheaper and still high-performing," Dong said.

To do that, the researchers have developed a process for fabricating intricate graphene patterns on tape. Dong said the first step is creating indented patterns on the surface of a polymer block, either with a molding process or with 3-D printing. Engineers apply

probably the smallest Cyclone," Dong said). "This fabrication pro-

cess is very simple," Dong said. "You just use tape to manufacture these sensors. The cost is just

In the case of plant studies, the sensors are made with graphene oxide, a material very sensitive to water vapor. The presence of water vapor changes the conductivity of the material, and that can be quantified to accurately measure transpiration (the release of water vapor) from a leaf.

The plant sensors have been successfully tested in lab and pilot field experiments, Dong said.

A new three-year, \$472,363 grant from the U.S. Department of Agriculture's Agriculture and Food Research Initiative will support more field testing of water transport in corn plants. Michael Castellano, an Iowa State associate professor of agronomy, and William T. Frankenberger, Professor in Soil Science, will lead the project. Co-investigators include Dong and Schnable.

The Iowa State University Research Foundation has applied for a patent on the sensor technology. The research founda-

Regional farmers' market workshops

scheduled for February around state

option to commercialize the technology to EnGeniousAg – an Ames startup company co-founded by Dong, Schnable, Castellano and James Schnable, an assistant professor of agronomy and horticulture at the University of Nebraska-Lincoln, a collaborator on another Iowa State sensor project that sparked establishment of the company (and Patrick Schnable's son).

"The most exciting application of the tapebased sensors we've tested so far is the plant sensor," Dong said. "The concept of wearable electronic sensors for plants is brand-new. And the plant sensors are so tiny they can detect transpiration from plants, but they won't affect plant growth or crop production."

But that's not all the sensors can do. The technology could "open a new route" for a wide variety of applications, the authors wrote in their paper, including sensors for biomedical diagnostics, for checking the structural integrity of buildings, for monitoring the environment and, after appropriate modifications, for testing crops for diseases or

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search and Extension and the Kansas Department of Health and Environment will host five regional workshops in February 2018 to assist farmers' mar-

ket vendors and managers.

Kansas farmers' mar-

kets not only provide a fresh food source, but also stimulate the local economy. In 2017, 85 farmers' markets were registered with KDA's Central Registration of Farmers' Mar-

"Farmers" markets provide growers a chance to tell their farm's story, with face-to-face interaction with consumers," said Londa Nwadike, consumer food safety specialist with K-State Research and Extension and the University of Missouri. "But there are also legal, safety and financial parameters that farmers need to understand before choosing to sell at a farmers' market.'

Workshop topics will vary slightly by location. Highlighted topics include:

Vendor Marketing and Communications

Growing in High Tunnels 101

Regulations on Selling Meat, Eggs & Poultry

Sales Tax for Vendors

Division of Weights and Measures will also offer free scale certification at the workshops for attendees.

Dates and locations for the Farmers' Market events are as follows:

Feb. 1 — Colby: Colby Community College, Student Union, Multipurpose Room

Feb. 2 — Great Bend: Trinity Lutheran Church, 2701 24th St.

Feb. 3 — Wichita: Sedgwick County Extension Office, 7001 W 21st St. N

Feb. 9 — Olathe: K-State Olathe, 22201 W Innovation

Feb. 10 — Chanute: Mid-West Fertilizer, Chanute Agronomy Center, 3030 W Santa Fe Ave.

Registration for the February workshops is now open and is \$20 per

participant. Registration includes lunch; however, lunch will only be guaranteed to those participants who register at least ten days prior to the respective workshop date. Registration forms can be found at FromtheLandofKansas. com/FMWorkshop or at

local Extension offices. Onsite registration will open at 8:30 a.m. and the workshops will begin at 9:00 a.m. and conclude by 3:00 p.m. The Wichita workshop will begin onsite registration at 8:15 a.m. and the workshop begins at 8:45 a.m., concluding at 4:15 p.m.

In addition, farmers' market vendors and managers are encouraged to attend the 2018 From the Land of Kansas Annual Meeting and Farmers' Market Conference on March 1 and 2 in Manhattan. Registration is open at FromtheLandofKansas. com/FMConference and will close Feb. 19, 2018.

KDA is committed to providing an environment that enhances and encourages economic growth of the agriculture industry and the Kansas economy. These workshops will provide support and assistance to help make Kansas businesses more success-

For more information, contact Lexi Wright, KDA's From the Land of Kansas marketing coordinator, at 785-564-6755 or Lexi. Wright@ks.gov.



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Grass & Grain, a farmers' newsweekly, has been published in Manhattan, Kansas for over 60 years. www.grassandgrain.com

Keep Your Hat On

Have you ever wondered how some riders never lose their hats when the action gets really fast? Here are tips from a wide array of riders, trainers and rough stock competitors that will help you keep your hands on the reins and not on your hat when the speed of your horse threatens to blow

Making a run-down for a sliding stop or chasing a cow down the fence can deteriorate into a bungled run if your hat goes airborne at high speed. You feel it starting to lift as your horse gains speed. When you reach up to attempt a quick fix, your rhythm is lost and telegraphs to vour horse, throwing you both out of sync resulting in a less than perfect maneuver. If you ignore the warning when you feel the first subtle clues of your hat's imminent departure, the results could be even worse. As it helicopters off your head, the surprise and distraction can cause your horse to spook, break the pattern or run off in a completely different direction. The worst case scenar-

io could develop if you're

on a colt and he uses the

threat of a flying hat as

an excuse to break-in-half

and send you airborne

with your hat in front of

an appreciative audience. If you're lucky and stay in the saddle and the hat crash-lands safely in the dirt, you'll probably be able to wear it again after a bit of cleaning. If luck isn't on your side, the hat could get trampled by other horsemen, a herd of cows or even by your own horse if you have to pass the same way again. If you're in competition and can't stop to retrieve it, you can bet your horse will have his attention on the hat lying in the dirt and not on your driving instructions as you continue

Like the cost of a gallon of gas, hats are getting expensive so it might

your pattern.

pay in more ways than one to keep it on your head when you climb in the saddle. Barrel racers are dead serious about keeping their hats on while in the arena. Barrel racing associations around the world impose fines from \$5 in South Australia to \$10 in North America for any contestant who loses their hat while in the arena. There's a big line-up of racers waiting for their go and if they have to wait while hats are retrieved, the delay could double the time needed for hundreds of riders to make their runs. The fines must work. Over four hundred riders raced around the barrels at an Ocala, Florida barrel race and only one fine was imposed on a rider who had the misfortune of losing

Working behind the scenes in the rodeo pens can reveal how rough stock competitors manage their hats during the most grueling rides in the business. While working the stripping chute one weekend at an NRA rodeo in Montana, I had the opportunity to talk with a few saddle bronc riders when they made their way back to the chutes to retrieve their gear. Some came in with their hats in their hands and others wear them pulled down far enough to bend their ears over. Most of the bare-headed riders showed a deep crease on their foreheads where a too-tight hat had been crimped

around their heads. I asked one rider if wearing such a small hat wasn't uncomfortable. His answer was to the point. "When I went to rodeo school, I was taught that if my hat hit the ground, my head better be in it. If I was worried about uncomfortable, I wouldn't be riding brones. I want my

hat to stay on at any cost." At speed, your brim turns into an airfoil like the wing of an airplane and wants to fly. You can't stop the brim from threatening to fly your hat but you can take measures for your hat to resist the pressure and remain firmly on vour head.

Stampede strings to duct tape are a few of the ways riders overcome the effect of speed on the brim of their hats. I talked with riders from many different callings and learned how they secure their hats before stepping

World Champion calf roper Jack Hennig's method is basic but works. He has two hats. One to wear when working or going to town and another to wear when he rodeos or shows cow horses. He wipes the perspiration from the sweat band and pulls it down tight. When he buys a hat he tries on several of the same size. Jack says all hats, even though they're marked the same size, aren't built the same and if you try a few on, you'll find one that is just a tad smaller than the rest. Buy that one to wear during your high-speed runs.

Texas cutting horse trainer Tom Ryan punches holes in his hats. I caught up with Tom one afternoon while he was resting on the porch of his bunkhouse. I asked him how he keeps his hat on when he trains fast-moving cutters. He said, "Let me see your hat and I'll show you."

He took my hat and disappeared in the barn. came strolling back with his leather punch in one hand and my hat in the other. He was calmly destroying the band in my new Stetson with the punch. He uses his leather punch to perforate the sweatband with numerous holes. The holes create suction between the skin of your forehead and the sweat band. Use the biggest hole on your punch for best results and leave enough room between holes for the band to do its job. Tom punches seven or eight holes on the front of the band to help secure his hat. He doesn't care what kind of hat it is or how much it costs. It doesn't bother him to punch holes in other people's hats either. I took my hat and left when he asked me, "Do you want your horse branded too?" If you're near Millsap, Texas, you may be able to have your hat perforated

A few seconds later he

Jay Holmes of the Triple J Ranch won the World Championship in the Open Hackamore class during the National Reined Cow Horse Association show in Stephenville, Texas in February 2004. Jay's blistering high-speed turns on the fence on DUN IT BIG helped secure the world title. His hat never budged during the record run. Back in Sarasota, Florida, Jav never said what method he uses but did make

at no charge if you stop by

Tom's ranch.

Grass & Grain, January 9, 2018 a few suggestions when asked about hats.

If you buy a hat a size bigger than what you normally wear, you'll have room to add a strip of foam inside the band. "Western stores sell foam strips for that purpose. The foam will force the sweat band to conform to your head, making a tighter fit. Some manufacturers accept special orders for hats with lambskin sweat bands. If vou get the right-fitting hat with a lambskin sweat band, you won't have to worry about your hat," Holmes said.

One rider's approach is simple but effective. "Tape it on!" he says with enthusiasm. "I take a piece of duct tape about three inches long and carefully secure half of it on the front of the band and fold the other half up toward the top of the band. Put on properly, the ends are at the top and the fold of the tape is at the bottom of the band. Using both hands, I carefully place the hat on my head and pull it down tight. The tape sticks to my forehead and the sweat band and my hat doesn't move." Another way is to spray the inside of the hat and the sweatband with hair spray. It works like glue

and if it can keep some of those wild hair-dos in place during a hurricane, it sure ought to keep your hat on.

If you have a flying hat problem, maybe these suggestions of duct tape, hair spray, foam inserts or a stampede string might help keep your hat on your head and save you the trouble of dismounting every time it flies off. If none of these work, just buy a good-fitting hat with a high crown that you can pull down tight until your ears fold over. You won't be able to hear anybody

but your hat will stay on. Contact Ralph Galeano at horseman@horsemanspress.com or www.horsemanspress.com



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Auctioneers Note: If you're looking for materials to remodel your kitchen or rental don't miss this auction. We have sample pictures on website that we have had in the past auctions.

SUNDAY, JANUARY 14 —

Two Estates, Seized assets from Riley Co. Police Dept. Vehicle from KSU Agronomy, large coin collection, furniture, household, antiques, collectibles and gardening items, much much more Watch website for updated information and pictures.

VEHICLES: '96 GMC Sonoma truck, '05 Hyundai Santa Fe, '08 & 10 Crown Vics, '11 Ford Explorer 117K, '08 Chevy Impala 114K. Jewelry, Rings, Watches, Necklaces

Auctioneers Note: Two outstanding Auctions. We will be adding more as we get closer to auction day. Concessions will be available both days. Adding more each day. *Keep an eye on our* website at Ruckertauctions.com

Terms: Cash, Good Check will be accepted for payment. Announcements made day of sale take precedence over prévious printed ma-terials. 10% buyers premium will be in effect. All items must be paid for before leaving.



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Real Estate Firm Comments: This farm could have more

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SATURDAY, JANUARY 27, 2018 — 11 AM

LOCATION: Knights of Columbus, 1st St. — SENECA, KS

158.15 ACRES M/L NEMAHA COUNTY, KANSAS

Land Location: On the South side of Seneca, KS. take 8th Street South to J Road. Go 1 mile South on J Road to 136th

Road. Go West 1 mile on 136th Road to I Road. Take I Road 1/2

Legal Description: SE 1/4 Section 8, Township 3, Range 12,

General Description: Property has 26 acres bottomland farm

ground. 54.28 acres of farmland enrolled in CRP (Conservation Reserve Program) at \$136.51 per acre. Total annual payment is

\$7,410 per year. 9 years left on CRP contract. Total 2018 CRP

payment goes to Buyer. Balance of farm includes pasture, hay

mile South. Property starts on West side of I Road.

Mitchell Township, Nemaha County, Kansas.

ground and a creek. Taxes \$1268.52.

acres developed into farmland if desired. Has a good return on CRP land for Farmer or Investor. Close to town for a person who is looking for a tract of land to hunt or get away to a very secluded area. Terms: 10% Down Auction Day with Balance Due on March 2, 2018.

Possession to be upon closing. Buyer and seller will equally split title insurance expense. Seller will be responsible for taxes to closing date. Buyer and seller will equally split closing costs of Galloway, Wiegers & Brinegar Law Office 520 Main St. Seneca, Kansas. Statements day of sale take precedence over printed material. Seneca Realty represents

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Applications now open for 2018 Pork Industry Scholarships The National Pork Board announces the opening of the application period of the 2018 Pork Industry Scholarships. This program is open to college juniors and seniors who have plans to pursue a career in swine production management or a related field. In addition, students who will be seeking to attend veterinary or graduate school with an emphasis on swine are encouraged to apply. The National Pork Board will award up to 21 scholarships in 2018 totaling \$48,000. The top applicant will receive \$5,000, the second-ranked applicant will receive \$3,500

and all others will receive \$2,000.

"Developing human capital and identifying future leaders is critical to the continued success of the swine industry," said Chris Hostetler, animal science director for the Pork Checkoff. "The National Pork Board's Animal Science Committee understands this need and continues its commitment to recognize excellence and encourage students through awarding scholarships.'

The guidelines for the scholarship application and the online form can be found at www.pork.org/scholarship. The deadline for application submission is Feb. 16, 2018. Following review and selection, recipients will be

"Students who meet the scholarship criteria are encouraged to submit an application for consideration.' Hostetler said. "This is an excellent opportunity to provide financial assistance to students seeking swine-oriented careers.'

About 80 percent of the previous recipients of the Pork Industry Scholarship have pursued advanced degrees as they prepared to serve the industry as veterinarians, nutritionists, reproductive biologists and man-

Producers should prepare for winter supplement needs

to dry conditions, said Jason Banta, Texas A&M AgriLife Extension Service beef

Banta said supplemental feeding started earlier than usual for many producers around the state because of dry fall conditions. The Texas state climatologist's longterm winter forecast called for warmer, drier conditions.

"Compared to 2016, we've been much drier, so that means less stockpiled forage and shorter pasture conditions," Banta said. "This means producers will have to feed hay much earlier compared to recent years. The warmer temperatures would be good for winter forage growth, but below-average rain could be bad, so it's im-

portant to plan ahead. "If producers get rain, they'll want to utilize those winter annuals as best as possible," he continued. "If they don't get rain, producers need to be calculating how much hay they have on hand and whether they might need to start looking for sources to purchase additional hay.'

If winter pasture growth is abundant, then pairs can be grazed full time.

Huvepharma acquires AgriLabs; purchase will expand U.S. presence, and speed commercialization of animal health innovations more quickly," says Steve

nounced its acquisition of AgriLabs® in a move that will expand the U.S. presence of the global animal health and nutrition company and speed commercialization of their biologic solutions for animal health. "We're very excited

about the talent and technology that are part of the AgriLabs businesses," says Glen Wilkinson, president of Huvepharma, USA.

#AMX34112

portfolio of products and enhancing our presence in the global market. It also enables more rapid commercialization of biological products through Benchmark Biolabs, a subsidiary of AgriLabs and part of the acquisition of companies.' "We're pleased to be

a part of Huvepharma's global animal health company as this acquisition will provide resources to bring new solutions to vet-Let the

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Schram, president and CEO of AgriLabs. "It will also allow us to accelerate the development of the Ex-ENABL adjuvant, which represents the next generation of biological innovation in animal health."

The acquisition in cludes AgriLabs product lines including Colostrx® CS and Colostrx® CR: and Pulmo-Guard® PH-M insecticide delivery sys tem: and AgriLabs' custom vaccines business. In addition, the acquisition also includes Antelope Valley Bios, a contract manufacturing business, and the VaxLiant® portfolio of novel adjuvants based in Lincoln, Nebraska.

Both companies will continue operations under their current identities as integration opportunities are identified in 2018.

"Huvepharma AgriLabs are strong, complementary focused on providing real solutions for the animal food producing industry,' Wilkinson says. "This acquisition only strengthens our ability to provide the highest quality products and services as Huvepharma's commitment to serving our customers."



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STEERS

450

495

591

610

647

672

699

828

807

857

847

854

405

505

585

638

632

659

bulls Start calving Feb. 1st.

HEIFERS

CLAY CENTER LIVESTOCK SALES INC. Cattle sales Tuesday, 11:00 AM

Report from January 2nd, 2018:

181.00

179.00

169.50

168.00

151.50

155.75

153.50

152.25

149.75

149.75

149.50

146.00

143.25

165.00

155.00

155.00

147.50

147.00

145.75

27

24

29

6

6

701

742

768

768

789

888

882

TOP BUTCHER COW:

\$65.00 @ 1,670 lbs.

TOP BUTCHER BULL:

\$76.00 @ 1,885 lbs.

BRED HEIFERS:

\$1,550 to \$1,700

BRED COWS:

\$900 to \$1,075

PAIRS: No Test

142.50

142.00

140.75

140.50

139.00

137.00

137.00

17

11

12

16

37

25

13

11

19

MITCH LANGVARDT

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Report from January 3rd, 2018: 145.00 143.50 **STEERS** / 18

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

	OILLING		,	013	145.00
10	480	190.00	18	747	143.50
6	477	167.00	13	729	142.00
2	625	161.00	7	766	140.50
19	644	159.50	60	752	139.75
21	691	158.00			
29	799	153.25		TOP BUTCHER (COW
61	850	149.50		\$57.50 @ 1,435	lbs.
12	874	149.50			
42	970	148.25		TOP BUTCHER E	
59	945	148.10		\$79.50 @ 1,985	lbs.
23	851	148.00	DI	RED COWS: \$835	¢1 250
45	825	146.50	Di	\LD COWS. \$055	-φ1,230
	925	144.50		PAIRS: \$1,000-\$1	1.560
3 5	1030	132.00			
	HEIFERS			PIGS: No Tes	st
3	395	175.00		SOWS: No Te	cŧ
6	436	165.00		30W3. NO 16	31
7	568	153.00		FAT HOG TO	P:
10	672	146.50		\$26.50 @ 281 I	bs.
SPECI	AL SALE	WFD I	Δ NI I /	ARY 10 @ 11:	nn am
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Bulls turned in May 9th for 60 days 525 Ang x WF cows

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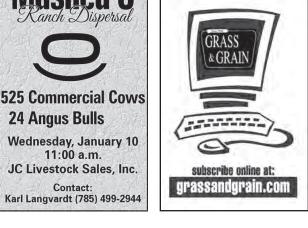
CONSIGNMENTS FOR TUES., JANUARY 16

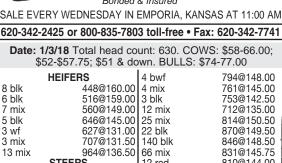
45 Angus X 1st calf bred hfrs bred to LBW Angus Lyon's

Tom Koch, 785-243-5124

Clay Center Field Representatives: Lance Lagasse, 785-262-1185







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7 mix 5 blk 3 wf 3 mix 13 mix 810@144.00 490@180.00 3 blk 4 bkbwf 815@143.00 527@181.00 8 mix 6 blk 4 blk 943@143.25 615@160.00 910@142.50 11 mix 676@149.75 17 blk 984@140.50 974@139.00 666@149.00 7 bkbwf 4 blk 605@147.50 11 blk 643@142.50 **EARLY CONSIGNMENTS FOR JAN 10th** • 14 blk & red Angus bred hfrs, Al bred to Angus LBW

bulls to calve in mid to late January • 35 Char X strs & hfrs, longtime weaned, 500-700 lbs • 14 blk hfrs, longtime weaned, 650-700 lbs

ANNIVERSARY SALE JANUARY 17th 80 blk & blkwf strs & hfrs, 90 days weaned, 2 rds shots,
McCabe & Hillhouse genetics, 500-700 lbs
20 red Angus strs & hfrs, longtime weaned & 2 rds shots,

500-700 lbs 63 blk & blkwf strs & hfrs, longtime weaned & 2 rds shots,

500-700 lbs

30 blk strs & hfrs, longtime weaned, 525-575 lbs

85 blk Brangus strs & hfrs, long time weaned & running

out. 550-775 lbs 50 blk & red strs & hfrs, longtime weaned & 2 rds shots,

600-700 lbs

30 red Angus strs, longtime weaned 600-700 lbs 36 blk & red strs & hfrs, longtime weaned 600-800 lbs

20 blk strs, longtime weaned & 2 rds shots 650-750 lbs

 20 mostly blk hfrs, longtime weaned 650-750 lbs
 300 blk & bwf strs & hfrs, longtime weaned 650-875 lbs 150 blk & bwf strs, long time weaned, fancy, 650-900 lbs

100 blk & bwf strs & hfrs, long time weaned, 650-900 lbs
35 blk strs & hfrs, long time weaned, 700-800 lbs

8 blk hfrs 750-800 lbs • 62 blk & red strs 750-825 lbs • 350 blk red & Char strs 775-875 lbs

 160 mostly red Angus strs 850-925 lbs THANK YOU FOR ALL OF YOUR CONTINUED SUPPORT!

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State Conservation Commission Meeting to be held January 22 The State Conservation Commission will meet at 9:00 a.m. on Monday, Jan. 22, 2018.

The meeting will take place at the Kansas Department of Agriculture, 1320 Research Park Dr. in Manhattan. The meeting is open to the public.

The State Conservation Commission was established in 1937 to promote soil and water conservation and has the responsibility to administer the Conservation District Law, the Watershed District Act and other statutes authorizing various conservation

To request a copy of the agenda, please contact the Kansas Department of Agriculture's Division of Conservation at 785-564-6620 or kda.doc@ks.gov. If special accommodations are needed, please contact the agency three days in advance of the meeting

Sub-zero temperatures may have damaged Kansas wheat crop

cold spell that settled over the heartland on New Year's Day made doing almost anything outdoors difficult, and likely did at least some damage to winter wheat in Kansas, a Kansas State University agronomist said.

Dry conditions in some areas made the crop even more vulnerable to freeze

"Air temperatures on New Year's Day alone were cold enough to harm the wheat crop in many parts of the state," said Romulo Lollato, wheat and forages specialist with K-State Research and Extension. North central Kansas had temperatures of 10 below zero F for up to 10 hours and readings in some areas fell as low as 16 below zero.

Kansas typically grows about one-fifth of all wheat grown in the United States. About half of it is exported.

Cold damage to the wheat crop depends on many factors, including how low temperatures go and how long they stay at those levels; the stage of crop development; soil moisture; snow cover (which can provide an insulating effect); and wind speed.

"The effects of the low temperatures could be magnified by dry soil conditions and poor fall development due to late sowing across the state,"

While most of the state was exposed to minimum temperatures below 0 degrees F for the week ended Jan. 2, potential damage to wheat was likely restricted to areas where minimum temperatures fell to 5 to 10 degrees below zero.

sas wheat crop during the

2017-18 season," Lollato said, adding that wheat

sowing was delayed last

fall for about 60 to 80 per-

cent of the Kansas crop

due to early October pre-

cipitation. That put the

crop behind in its develop-

ment compared with aver-

age years, plus many fields

in north central Kansas

had sowing delayed fur-

ther because producers

were finishing their sum-

he said, is that soil tem-

peratures never reached

single digits at a 2-inch

depth across the entire

state, and snow cover

amounting to as many as

5 inches in some areas

could have helped winter

wheat survival if the soil

surface was covered at the

time cold temperatures

http://ksu.ag/2F3yc7y.

More details, including

occurred.

One encouraging factor,

mer crop harvest.

Though the situation may spell bad news for the 2018 wheat crop, it's too soon to tell the extent of the damage, the wheat specialist said, encouraging growers not to take immediate action.

"While foliage damage will be apparent a few days after the cold event, the first apparent sign of freeze injury being leaf dieback and senescence. symptoms of winterkill will only be apparent at spring greenup," Lollato said. It's even possible that if the crown is not damaged, wheat can recover in the spring with little yield loss.

If damage to the crown occurred, the crop will not green up in the spring or will green up for a short period of time using existing resources, and perish shortly after.

"In any case, we will only be able to assess the true extent of the damage at spring greenup," he

"Wheat that has fewer than one to two tillers and three to five leaves will be more susceptible to winterkill, which unfortunately is the situation for

Kansas, Hawaii win ASI membership contest

The American Sheep Industry Association awarded one Annual Convention free registration to the state sheep associations who showed the greatest membership increase in their respective categories in 2017.

Kansas was the winner in the ASI membership ies of \$2,000 or more category, while Hawaii too the top spot in the dues of \$2,000 or less category. Kansas increased its state association membership by 61 percent, while Hawaii's membership jumped 150 percent for the year.

DORAD LIVESTOCK AUCTION, INC.

316-320-3212

Fax: 316-320-7159

2595 SE Highway 54, P.O. Box 622,

El Dorado, KS 67042

Market Report - Sale Date 1-4-18. Head Count: 426. 300-400 lb. steers, \$130-\$186; heifers, \$125-\$167; 400-500 lb. steers, \$130-\$185; heifers, \$125-\$166; 500-600 lb. steers, \$120-\$180; heifers, \$120-\$165.50; Trend on Calves: Choice

str & hfrs calves steady to \$5 higher from last sale. Trend on Feeder Cattle: Nt enough feeder strs & hfrs for a good market test. Butcher Cows: High dressing cows: \$60-\$69; Avg. dressing cows: \$50-\$60; Low dressing cows: \$30-\$50. Butcher Bulls: Avg. to high dressing bulls \$75-\$85.50. Trend on Cows & Bulls: Butcher Cows, \$2 higher from last sale; Butcher Bulls, steady from last sale.

SPECIAL CALF SALE, JANUARY 11:

- 65 mixed feeder steers, 800-850 lbs
- 60 mixed feeders steers, 800-850 lbs 75 mixed feeder steers, 775-850 lbs
- 120 mixed feeder steers, 825-875 lbs
- 65 mixed feeder heifers, 825 lbs 70 black steers & heifers, weaned 75 days w/shots, home
- raised, 600-750 lbs
- 150 mixed steers & heifers, weaned 90 days w/shots, 550
- 650 lbs 40 black steers & heifers, home raised, 500-650 lbs

40 mostly black steers, weaned 120 days w/shots, thin

We welcome your consignments!
If you have cattle to consign or would like additional informa-

tion, please call the office at 316-320-3212 **Check our website for updated consignments:**

www.eldoradolivestock.com To stay up to date on our latest announcements you

can "Like" us on Facebook **Chris Locke** Steven Hamlin (316) 320-1005 (H) (602) 402-6008 (H)

(316) 322-0675 (M) Larry Womacks, Fieldman (620) 394-3273 (H) (620) 229-0076 (M)

(620) 222-1199 (M) Van Schmidt, Fieldman (620) 367-2331 (H) (620) 345-6879 (M)

Cattle Sale Every Thursday 11:00 AM

Local Food Producer Entrepreneurship Workshop scheduled in February

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 aspiring and existing local producers gain those skills. It is sponsored by K-State Research & Extension-Sedgwick County, the Health

& Wellness Coalition of Wichita, and HealthICT.

The workshop will be held Friday, February 2, 2018 from 11 a.m. to 4:30 p.m. in 4-H Hall at the Sedgwick County Extension Education Center at 21st and Ridge in Wichita. Cost of registration is \$15 by January 26th and \$20 after that. The registration deadline is Wednesday, January 31st. Register online at http:// sedgwick.ksu.edu or by calling 316-660-0100.

The workshop topics

include business planning, social media, crop insurance, and more. The keynote speaker will be Greg Garbos of City Bitty Farm. Four Season Tools. and AgRoofs. He will be speaking on Finding Your Niche & Passion for the first keynote session and Business Planning & Launching Your Business for the second keynote

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

Two workers die after being trapped at Wichita grain elevator was the scene of an ex- killed seven people and

(AP) - Sedgwick County officials say two people have died after being trapped in a grain elevator in south Wichita.

The county announced the bodies were recovered about 5 p.m. Tuesday at the grain bin at Gavilon Grain. Fire Deputy Chief Larry

Tangney says emergency crews responded to the site about 2:30 p.m. after reports that two workers were trapped. It was not clear how the

come trapped under 20-25 feet of grain. The two workers have not been identified.

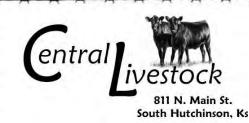
two got into the bin and

what caused them to be-

The elevator, formerly known as DeBruce Grain,



plosion in June 1998 that injured 10 other workers.



www.centrallivestockks.com

Office: 620-662-3371

or Matt Hoffman (Owner): 620-727-0913 Hav Auction- Every Tuesday at 9:00 a.m. Cattle Auction- Every Tuesday at 10:00 a.m.

Hog/Sheep/Goat Auction- Every 3rd Saturday Horse/Tack Auction- Every 1st Saturday

Sat., Jan 20th - Hog/Sheep/Goat Sale Tues., Jan 21st- Holstein Special

BÉLLEVILLE 81 LIVESTOCK SALES Junction Hwys 36 & 81 Belleville, Kansas

CATTLE SALES EVERY FRIDAY • 10:30 AM

Large sale last week! 6 slaughter buyers here every week. Slaughter cows to \$71; Bulls to \$92; Heiferettes to \$120. Very good demand for Feeders a little weaker due to Futures down Thursday & Friday but still strong market all day. A lot of buyers on the seats for many strings of Top Quality Cattle!

SPECIAL FEEDER SALE with Charolais Section FRIDAY, JANUARY 12 109 CharX, 650-850; 110 CharX strs, 800-900; 45 CharX strs,

750-800; 80 CharX, 600-750; 25 CharX, 700-800; 60 CharX hfrs, 700-800; 25 blk red, 600-700; 25 blk, 700-800; 5 strs, 850; 145 blk, 700-800; 50 blk red, 600-800; 40 blk, 600-700; 10 blk, 400; 140 blk, 700-800; 35 blk, 650-800; 75 blk, 675-800.

FRIDAY, JANUARY 19:

Total Disp. for Dean & Linda Krueger, 402-768-2427, 60 blk cows 3-8 yrs, bred blk, Feb. calf; 25 blk hfrs, 1200 lbs., bred blk, Feb. calf, all very nice, gentle herd. Plus many feeders. 100 blk, 700-800; 180 blk, 700-900; 65 blk, 700-800; 45 blk

FEEDER SPECIAL: FRIDAY, JANUARY 26!

Auctioneer Ethan Schuette 785-541-1027 • 785-527-2258 For Market Reports, and Early Listings Website: Belleville81.com Barry & Angii Kort, Owners • 785-527-2258

Thanks for your business!



Special Bred Female & Regular Sale S.T. 9:45 a.m.; Weigh-ups & Breds at 1:00 p.m.

200 .. Angus (1000-1125) bred Ang; cf.3-15, 45 days. Home Raised. Baldridge genes for over 30 years. Revered for composition, maternal instincts, and carcass outcome....

Brush Creek Rn(Leroy Morrison, 402-376-6213) 90blk (1050-1100#) sync & A.I. Ang (EF Compliment & MB Hichock);cf 2-20 for

day. Cleaned up Ang for 40 days Home Raised. Yrs of ABS gene input. .. Lyle Phillips (308-546-2540) 45blk & Ang (1050-1100#) sync & A.I. bred Ang (Barstow Bank Roll); cf 2-25, day. Home Raised

.... Randy & Chris Huddle (605-557-3394) 80 blk (1050-1100#) sync. & A.I. bred Ang (Con. Comrade); cf 2-25, 2 days. .. Rick & Missy Weber (4023891406)

80 blk (1050-1100#) bred LBW Angus; cf 3-10 for 20 days. ..Rick & Missy Weber (402-389-1406) 50blk (1050-1100#) 25 sync & A.I. bred Ang (Effective & Whitlock) cf 2-20 ; 25 bull bred Ang; cf 3-1, 21 days gentle, and nice to be around ..Justin Heath (605-840-5052)

30 Hereford (1050-1100#) bred blk; cf 3-1 for 40 days. Origin Carlson Rn. Justin Heath (605-840-5052) 40 bwf(f-1) (1000#) sync. & Al'd bred Ang; cf 3-20 for 2 days (emblazon 999)

cleaned up Angus(Capitalist Sons for 25 days) Home Raised ..Dennis Bammerlin(402-497-2519)

32 Angus & blk (1050-1150#) A.I. bred Angus (Niagara); cf 2-20 for 40 days . . Steve & Kim Crowe

10 Angus (1100#) bred Angus (Barstow); cf 2-20 for 42 days. HR, top end kind..

128 .. Angus & blk (3-7yrs) sync.&Al'd bred Angus(Niagara); cf2-20 for 55 days. Complete Dispersion. Sorted in age groups(40 hd, 3-4 yrs.) Long time Al program, emphasis on fleshing ability. Sandhills adapted Steve & Kim Crowe(402-322-9600) 40 Angus (1200-1400#) (3-10 yrs) (15 hd 3yrs) bred Angus; cf 3-10 for 40 days Liquidation of bull breds, purebred Angus.. ..Butler Angus (Joe 402-376-4919) 83rd (52 hd) (3-5 yrs) bred rd Angus (Bieber), Pieper, Hueftle; cf 3-20 for 60 days & blk (31 hd) (5-6 yrs) bred char; cf 3-20 for 60 days.

. Pennypoke Rn (Bradley 402-360-2690) 42rd Angus, rd-x (22 hd @ 3 yrs; 15 hd 4-7 yrs; 5 hfrs bred rd Angus) bred rd simm; cf 3-25 for 65 days. Dispersion . Jon Elsasser(605-842-5312)

Other Bred Females: 42 blk, few bwf (19 hd solid-balance short term) bred blk (Jorgensen):; cf 3-25 for 55 25 blk, blk-x (running age) sync & A.I. bred Angus & comp. ;cf 4-15 for 30 days ...

..Diamond Lazy J

... Dan & Deb Woodworth

22 Hereford, hereford/Angus-x (short term) bred Hereford & rd Angus; cf 3-1 for 55 20 Angus & blk (young) bred Angus; cf 4-25 for 35 days. Ultrasound pregged Phil Miller Angus

12blk (3-5 yrs) bred blk; cf 3-1 for 60 days...

Plus more from: Frauen (25), Kinsley(61), Bonafield(18), Ross(15), Hippen(10), Schmidt(7), Duck Bar Ranch View our special sales online @ cattleusa.com Office: 1-800-682-4874 or 402-376-3611 Greg Arendt, Mgr., C: 402-376-4701 Greg Nielsen, Fieldman, C: 402-389-0833

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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 Like Us On Facebook!

On Thursday, January 4 we had 791 head of cattle on a good market.

STEERS 14 bwfrbf 758@151.00 12 bkred 563@145.00 7 bkbwf 842@147.50 12 hkbwf 667@145 00 3 blk 542@181.00 507@176.00 3 blk 53 bkbwf 907@144.00 10 bkChr 751@144.50 9 bkbwf 559@175.00 12 bwfrbf 998@143.00 42 bkbwfwf749@143.75 6 bkbwf 621@143.00 6 bkbwf 623@172.00 9 bkred 899@142.00 7 blk 10 bkred 606@169.50 **HEIFERS** 754@142.50 10 bkred 644@162.00 15 bwfrbf 715@142.50 5 bkred 408@167.00 60 bkbwf 679@161.25 11 bkbwf 515@159.50 6 bkred 663@139.50 8 bwfrbf 658@156.00 11 bkbwf 829@138.75 13 blk 630@149.00 6 bkbwf 958@132.50 737@156.00 63 bkbwf 661@147.25 26 bkbwf 754@153.75 18 bkChr 901@128.25 599@145.50 7 blk Butcher Cows: \$45-\$69.50, mostly \$55-\$64, \$2-\$4 higher, very active. Butcher Bulls: \$70-\$78.50, on a light test.

BUTCHER COWS 2 blkbwf 1373@63.50 1 blk 3 blkbwf 1190@69.50 1533@63.00 1 blkLimo 1665@69.50 1253@62.00 1155@66.50 1345@61.00 1 blk 3 blkbwf **BUTCHER BULLS** 1 Char 1350@66.00 1745@78.50 1 blk 1715@65.00 1310@65.00 2035@78.00 1 wf 1 blk 1 wf 1220@65.00 1 wf 1620@77.00 1602@65.00 1460@72.00 8 bkbwf 1 Longhorn 1905@64.00 2390@71.00 1 blk 1 Hols

EARLY CONSIGNMENTS FOR JAN. 11 70 Angus cows, 5-10 yrs, all Spring calvers

4 Angus bulls, complete dispersal from Joe Smith from

Neodesha, KS. Closed herd for 3 generations. 70 blk bwf cows 8-10 yrs, all Spring calvers. Bred to Angus

bulls from D.J.K Ranch from Grenola, KS 25 blk bwf cows 3-7 yrs, Spring calvers. Bred to blk Simm

bulls from Haas & Son from Madison, KS 100 blk strs & hfrs, 500-700 lbs, weaned & vac.

85 blk red strs & hfrs, 600-800 lbs, weaned & vac

EARLY CONSIGNMENTS FOR JAN. 18 250 blk bwf rbf strs & hfrs, 500-750 lbs, home raised, long time weaned & vac

We appreciate your business!

Ron Ervin - Owner-Manager Home Phone - 620-583-5385 Mobile Cell 620-750-0123

Mobile Cell 620-750-0222

Austin Evenson- Fieldman

If you have any cattle to be looked at call Ron or Austin

Greenhouse expansion provides home to additional wheat researchers The warm orange glow of the greenhouses at the Kansas Wheat Innovation Center (KWIC) provide a welcoming nightlight to Kimball Avenue in Manhattan, but most passersby don't realize the plants grown inside are the future of Kansas agriculture. That glow recently become a little bigger thanks to a new four-bay greenhouse expansion that will help

These new greenhouses will be used for public-private collaborative wheat research. Molecular and genetic research done in the KWIC laboratories will be supported by the greenhouses and a more controlled environment

0-2 4 5 6 7 8 9 10 11+

get cutting edge wheat ge-

netics into the hands of

Kansas farmers faster.



Genetics Resource Center, Kansas State University's Poland Lab for Wheat Genetics and Heartland Plant Innovations. Courtesy photo

will both enhance and accelerate results.

"Through the wheat Grass & Grain Weather Report

checkoff, Kansas wheat farmers have now helped fund construction of 22,750

Jan. 10, 2018

square feet of new greenhouse space in Manhattan in the past five years," said Aaron Harries, vice president of research and operations for Kansas Wheat. "This new space will position the Kansas Wheat Commission and K-State to take full advantage of new wheat research discoveries that seem to be emerging every day. Some of the brightest wheat research minds and best facilities in the world are located here in Manhattan, thanks to the investment by Kansas farmers."

These new greenhouses will be the home to researchers from the Wheat Genetics Resource Center, Kansas State University's Poland Lab for Wheat Genetics and Heartland Plant Innovations.

internationally

Research areas include technologies such as developing uses for drones in wheat improvement, high-throughput phenotyping, prediction models for wheat breeding, genome sequencing and much more.

Heartland Plant Innovations works to develop advanced technologies for gene discovery, trait validation and crop improvement. It was created with the intent of revolutionizing plant breeding and genetics. HPI focuses on doubled haploid production (a process that cuts five to seven years off of wheat variety development), trait development, contract research and wide crossing (a joint program with the WGRC that inserts traits from ancient wheat into

modern varieties). The 12,750-square-foot expansion was constructed adjacent to the existing four greenhouse bays, offices and laboratories at the KWIC. The new space includes separate rooms for potting, seed processing, soil preparation and a soil room to receive and handle bulk potting. Special temperature control and grid lighting systems are also included in the

project. The majority of the funding for the expansion came from the U.S. Economic Development Administration, Kansas State University and the Kansas Wheat Commission, with additional support from the Dane G. Hansen Foun-

Today we will see partly cloudy skies with a slight chance of isolated rain, high of 35°, humidity of 71%. South wind 11 mph. The record high for today is 79° set in 2001. Expect mostly cloudy skies tonight with a 35% chance of rain and snow, overnight the control of the cont WEDNESDAY High: 45 Low: 26 THURSDAY High: 40 Low: 21 FRIDAY Partly Cloudy High: 36 Low: 17 SATURDAY High: 43 Low: 24 SUNDAY Sequencial Grove High: 47 Low: 28 MONDAY High: 42 Low: 23 TUESDAY

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537 @ 154.00

470 @ 153.00

540 @ 149.00

676 @ 152.00

562 @ 148.00

714 @ 146.25

775 @ 145.35

578 @ 144.50

550 @ 140.00

HEIFER CALVES

Grant Writing Workshop scheduled for January 30

recognized WGRC has a

mission to assure future

advances in wheat breed-

ing by harnessing genet-

ic traits from wild wheat

relatives collected from

around the globe. While

the WGRC already has lab

space and a gene bank at

KWIC, it will soon move

into its own greenhouse

bay in the expansion. Re-

searchers for the WGRC

are working to discover

genes for resistance to

viral, bacterial, fungal and

insect pests. Once these

genes are identified, they

are transferred to modern

breeding lines, ultimately

to be released for farmers

wheat genetics at Kan-

sas State University fo-

cuses on developing im-

proved wheat germplasm

along with novel breeding

tools and methodologies.

The Poland Lab for

around the world.

With ever-increasing pressure on local budgets, communities and organizations are more frequently looking for competitive grants to fund local projects. Being successful in securing grant funds is dependent upon one's ability to submit a quality application. To assist in this process, K-State Research and Extension, River Valley District will be offering a Grant Writing Workshop on Tuesday, January 30, 2018 from 9:30 to 3:30 at the EMS

Building in Miltonvale. This workshop is designed to help participants discover how to secure funding for projects, programs, or initiatives and to develop confidence in grant writing abilities. Participants will learn: sources of data for community needs, elements of a great grant proposal, where to find grants, and how to develop a grant budget. Throughout the day, participants will have opportunity to practice

the various elements of a grant. Registration covers materials, refreshments, and lunch. Contact John Forshee, River Valley District Director/Community Vitality agent with questions or to register for the workshop. Call the Clay Center office at 785-632-5335 or email jforshee@ksu.edu.

Or Buy

Cattle

STARTING TIME 10:30 AM

1 bwf cow

1 sim cow

1370 @ 62.50

1195 @ 61.00

1465 @ 60.00

1550 @ 59.50

1645 @ 59.00

1755 @ 58.50

1495 @ 58.00

1640 @ 57.50

1630 @ 56.50

1495 @ 56.00

1485 @ 55.00

We sold 1082 cattle January 2. Steer and heifers were in good demand and sold steady to \$5.00 higher. Feeder steers and heifers steady to \$3.00 higher. Cows and bulls \$2.00-3.00 higher.

54 mix strs

16 blk/char strs

2 blk/bwf strs 475 @ 178.00 11 blk/bwf strs 530 @ 177.00 3 blk bulls 502 @ 164.00 2 blk strs 14 blk/bwf strs 8 blk/char strs 68 blk/bwf strs

STEER & BULL CALVES

490 @ 155.00 STOCKER & FEEDER STEERS 551 @ 178.50 10 blk/char strs 8 blk/bwf strs 626 @ 156.50 5 blk strs 60 mix strs 2 blk/bwf strs 60 blk/bwf strs 60 blk/bwf strs 30 mix strs 60 blk/bwf strs 808 @ 152.25 18 blk/red strs

18 blk/char strs 8 blk/bwf strs 15 blk strs 20 blk/char strs

591 @ 170.00 765 @ 158.25 652 @ 157.50 653 @ 157.50 872 @ 155.10 658 @ 154.00 792 @ 153.35 779 @ 153.25 783 @ 152.25 686 @ 152.00 932 @ 150.10

16 sim strs 8 blk/bwf hfrs

11 blk/bwf hfrs 3 blk/bwf hfrs 1 bwf hfr **STOCKER & FEEDER HEIFERS** 75 blk/bwf hfrs 16 blk/char hfrs 64 blk/red hfrs 67 blk/bwf hfrs 8 blk hfrs 4 blk hfrs 824 @ 149.50

Auction 657 @ 138.25

1 blk cow

604 @ 137.50 1 sim cow 26 blk/char hfrs 636 @ 137.50 1 blk cow 11 x-bred hfrs 866 @ 133.00 1 red cow 10 mix hfrs 1029 @ 117.50 1 blk cow 1 red cow **COWS & HEIFERETTES** 1 bwf cow 1 blk hfrt 1215 @ 96.50 1 blk cow 1 blk cow 1480 @ 72.50 1 hol cow 1280 @ 68.00 1 blk cow

1500 @ 64.50

CONSIGNMENTS FOR JANUARY 16:

26 fancy Angus bred heifers, 1050 to 1100 lbs. Montana origin, bred to Connealy Angus low birth wt. bulls, start calving Feb. 12, two round Scour Guard, vaccinated for lepto, vibrio

- 60 Angus strs & hfrs, 500-600 lbs., weaned, vacc.
- 40 blk strs & hfrs, 500-600 lbs., weaned, vacc. 65 Angus steers, 800-825 lbs.

WATCH OUR AUCTIONS LIVE ON DVAuctions.com



1 blk cow **BULLS** 1425 @ 53.50 1 wf cow 1890 @ 86.50 1 red bull 1 hol cow 1440 @ 53.00 2140 @ 83.50 1 blk bull 1 blk cow 1605 @ 52.50 2030 @ 78.00 1 blk bull 1045 @ 49.00 1 blk cow 1515 @ 48.00 1 hol cow

CONSIGNMENTS FOR JANUARY 9: 80 blk strs & hfrs, 500-700 lbs., weaned, vacc.

- 60 Angus strs & hfrs, 500-600 lbs., weaned, vacc.
- 150 blk strs & hfrs, 600-750 lbs., weaned, vacc.
- 55 blk strs & hfrs, 600-700 lbs., weaned, vacc.
- 75 black heifers, 700-725 lbs.
- 60 black heifers, 750-775 lbs., Northern origin
- 85 blk strs, 650-700 lbs., 90 days weaned, vacc.
- 150 SimAngus steers & heifers, 650-800 lbs., weaned, vacc.
- 64 Angus strs, 800-825 lbs., Mill Brae sired 62 black steers, 850-875 lbs.
- 60 black Charolais steers, 875-900 lbs.
- 130 black steers, 850-900 lbs.
- 60 black steers, 875-900 lbs.
- 250 black Charolais steers, 800-825 lbs.

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: ST. MARYS, 785-437-2785 **REZAC BARN**

55 wf/blk strs

57 x-bred strs

DENNIS REZAC ST. MARYS, 785-437-6349 **DENNIS' CELL PHONE** 785-456-4187 KENNETH REZAC ST. MARYS 785-458-9071

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AUCTIONEERS: DENNIS REZAC & REX ARB