

Farm groups defend crop insurance budget

Farmers and legislators celebrated the end of 2018 with the passage of a bipartisan Farm Bill that preserves the farm safety

net and provides farmers with the tools they need to manage the unique risks of farming.

annual appropriations and budget process, America's agricultural community joined forces to ensure that the crop insurance

program receives the full funding that it requires to be successful.

Sixty organizations, ranging from farm groups to conservation organizations and lenders, recently sent a letter to the House and Senate Budget Committees, as well as Agriculture Secretary Sonny Perdue, urging them to protect crop insurance during the budget process in recognition of its central importance to farmers and the rural economy.

Trying to balance the federal budget on the backs of farmers and ranchers would be a mistake, they wrote, with disastrous consequences for America's heartland.

USDA has projected

that 2018 farm profitability will be lower than it has been in over a decade, and farm income dropped more than 45% in five years. An over-reliance on budget savings from the agriculture community and from crop insurance will unquestionably undermine rural economies. It's also important to note that in a time of uncertainty in the farming and ranching community - from natural disasters to trade disputes to government shutdowns - the public-private partnership that is crop insurance has been a consistent and reliable risk management tool. The certainty of federal crop insurance also offers lenders the assurances they need to con-

tinue to provide capital to America's hard-working farmers and ranchers.

Cuts to crop insurance during this difficult time for rural America should be avoided. Farmers and lawmakers agree that crop insurance is a linchpin of the farm safety net and is crucial to the economic and food security of rural America. The importance of crop insurance was just reaffirmed less than two months ago with the passage and signing of the 2018 Farm Bill, and we urge you to oppose cuts to crop insurance during this year's budget process.

Crop insurers and their allies in agriculture have been successful in fending off past attempts to weaken the farm safety net by harming this vital risk management tool. The overwhelming support crop insurance received during the 2018 Farm Bill debate is a testament to how popular the program has become - covering a record 334 million acres.

Grass & Grain Weather Report March 6, 2019

Seven Day Forecast

WEDNESDAY
Mostly Cloudy
High: 35 Low: 25

THURSDAY
Rain & Snow Possible
High: 39 Low: 29

FRIDAY
Scattered Snow
High: 32 Low: 22

SATURDAY
Scattered Snow
High: 33 Low: 23

SUNDAY
Mostly Cloudy
High: 29 Low: 19

MONDAY
Sunny
High: 27 Low: 21

TUESDAY
Sunny
High: 38 Low: 27

In-Depth Local Forecast

Today we will see mostly cloudy skies, high of 35°, humidity of 61%. South southeast wind 5 to 9 mph. The record high for today is 81° set in 2017. Expect mostly cloudy skies tonight with a 40% chance of scattered snow, overnight low of 25°. East southeast wind 9 to 13 mph.

Last Week's Almanac

Date	HI/LO	Normals	Precip
2/22	41/25	47/22	0.04"
2/23	37/28	48/23	0.80"
2/24	28/16	48/23	0.00"
2/25	37/16	49/23	0.00"
2/26	20/13	49/24	0.00"
2/27	20/12	49/24	0.00"
2/28	28/13	50/24	0.00"

Rainfall

Normal rainfall: 0.84"
Actual: 0.28"
Departure: +0.56"
Average temp: 23.9°
Average normal: 35.9°
Departure: -12.0°

Today's Local Outlook

Washington 37/29 Blue Rapids 33/22 Seneca 32/21
Clay Center 36/26 Manhattan 35/25 Wamego 35/25
Ogden 38/26 Junction City 37/26
Abilene 36/27 Council Grove 37/26

This Week's Sun & Moon Chart

Day	Sunrise	Sunset	Moonrise	Moonsset	Phase
Wednesday	6:52 a.m.	6:24 p.m.	7:11 a.m.	6:32 p.m.	Full 3/20
Thursday	6:50 a.m.	6:25 p.m.	7:39 a.m.	7:30 p.m.	
Friday	6:49 a.m.	6:26 p.m.	8:06 a.m.	8:28 p.m.	
Saturday	6:47 a.m.	6:27 p.m.	8:34 a.m.	9:27 p.m.	
Sunday	7:46 a.m.	7:28 p.m.	10:02 a.m.	11:27 p.m.	Last 3/27
Monday	7:44 a.m.	7:29 p.m.	10:33 a.m.	Next Day	
Tuesday	7:43 a.m.	7:30 p.m.	11:08 a.m.	12:29 a.m.	

Local UV Index

0-2: Low, 3-5: Moderate, 6-7: High, 8-10: Very High, 11+: Extreme Exposure

Weather History

March 6, 1989 - A winter storm in the south central United States left parts of Missouri and Arkansas buried under more than a foot of snow. Heavier snowfall totals in Missouri included 14 inches at Springfield and 16 inches at Lebanon.

Growing Degree Days

Date	Degree Days	Date	Degree Days
2/22	0	2/26	0
2/23	0	2/27	0
2/24	0	2/28	0
2/25	0		



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

For our sale Friday, March 1 we had many cattle carrying extra flesh and had lots of mud balls which made them sell at a weaker price. Cattle with good condition and clean were selling fully steady.

BULLS — 1,150-2,050 LBS

COWS & HEIFERETTES — 900-1,900 LBS

BULL & STEER CALVES — 400-550 LBS

Eudora	5 blk	419@189.00
Baldwin	29 Cross	540@189.00
Seneca	4 Cross	447@184.00
Eudora	4 blk	517@182.00
Burlingame	4 bwf	416@179.00
Baldwin	31 Cross	461@175.00
Seneca	4 Cross	537@143.00
Manhattan	5 Cross	516@136.00
Baldwin	4 blk	523@135.00

Leonardville	1 blk	2045@81.00
Frankfort	1 blk	1150@68.00
Onaga	1 blk	905@126.00
Atchison	1 Cross	945@125.00
Jefferson City, MO	1 blk	1010@125.00
Manhattan	1 blk	1035@120.00
Wamego	1 blk	905@117.00
Frankfort	1 blk	1080@109.00
Leavenworth	1 blk	1080@101.00
Burlingame	1 blk	1095@73.50
Easton	1 blk	1900@73.00
Frankfort	1 blk	1700@72.50
Frankfort	1 blk	1505@70.50
Junction City	1 Hereford	1175@70.00
Frankfort	1 blk	1605@69.50
Leonardville	1 Cross	1595@66.00
Leonardville	1 blk	1560@63.50
Frankfort	1 blk	1455@62.00
Leonardville	1 blk	1645@60.00
Randolph	1 blk	1575@59.50
Clay Center	1 Heref	1165@59.50
Clay Center	1 bwf	1305@58.50
Leonardville	1 blk	1395@56.00
Valley Falls	1 blk	1230@55.50
Randolph	1 blk	1380@55.00
Burlingame	1 blk	1325@54.00
Leonardville	1 blk	1305@52.50
Junction City	1 Heref	1240@51.00
McLouth	1 blk	1135@50.00
Seneca	1 blk	1145@47.00
Manhattan	1 blk	1035@45.00
Beattie	3 cross	853@44.00
Shawnee	1 bwf	1195@42.00
Riley	1 Heref	1185@41.00

Leonardville	1 blk	SS	4	@950.00
Manhattan	5 blk	3	7-9	@910.00
Topeka	1 Heref	3	8	@900.00
Topeka	2 Heref	3-4	3-4	@875.00
Shawnee	2 blk	BM/OO	5	@860.00
Topeka	2 Heref	5	5-8	@850.00

Hoyt	3 blk	SS		@1600.00
Corning	1 bwf	7		@1575.00
Mayetta	4 blk	7-8		@1500.00
Hoyt	1 Cross	SS		@1425.00
Clay Center	9 blk	4-7		@1350.00
Hoyt	1 bwf	BM		@1300.00
Emmett	2 Cross	3		@1300.00
Emmett	1 bwf	5		@1250.00
Blaine	3 blk	4-5		@1250.00
Manhattan	1 blk	6		@1225.00
Blaine	1 Cross	5		@1175.00
Blaine	4 Cross	6		@1150.00

BRED 1ST CALF HEIFERS

AGE BRED

Jffrsn City, MO	7 blk	2	8-9	@1450.00
Allen	9 blk	2	7-8	@1400.00
Meriden	7 Heref	2	8-9	@1400.00
Jffrsn City, MO	4 blk	2	6-7	@1375.00
Alma	2 blk	2	4	@1250.00
Allen	11 blk	2	6	@1125.00

1ST CALF HEIFER PAIRS

AGE

Dwight	4 blk	2		@2125.00
Dwight	4 blk	2		@2000.00
Dwight	8 blk	2		@1950.00
Dwight	4 bwf	2		@1935.00
Dwight	8 blk	2		@1900.00
Dwight	8 bwf	2		@1900.00
Dwight	4 bwf	2		@1850.00
Jffrsn City, MO	3 blk	2		@1500.00
Jffrsn City, MO	1 blk	2		@1500.00
Wamego	2 Cross	2		@1150.00

COW/CALF PAIRS

AGE

Mayetta	3 blk	4		@1900.00
Welda	7 blk	3-4		@1885.00
Welda	2 rd Ang	3		@1700.00
Mayetta	7 blk	5-6		@1700.00
Corning	5 blk	3-4		@1700.00
Mayetta	3 rd Ang	4-6		@1675.00
Clay Center	2 blk	4-5		@1675.00
Emmett	1 heref	6		@1650.00
Hoyt	2 blk	7-8		@1625.00

EARLY CONSIGNMENTS FOR MAR. 8, 2019:

- 65 blk & red Angus cross str & hfrs, 2 rds shots, weaned 60 days, 400-500 lbs.
- 130 home raised Angus & red Angus str & hfrs, weaned Dec. 1st, 2 rds shots, green condition, 550-700 lbs.
- 1 registered horned Heref bull, coming 3 years, Domino 3053 son, dam won Louisville Kentucky show 2016, Trich & semen tested, BWEPD 3.1.
- 136 choice reputation Angus str & replacement quality hfrs, 600-775 lbs.
- 50 choice homeraised bwf & Hereford str & hfrs, 875-900 lbs.
- 40 blk & red str & hfrs, long weaned, 2 rds shots, 600-900 lbs.
- 65 blk & red str & hfrs, shots/weaned, 650-725 lbs.
- 480 homeraised Angus and Angus X str & hfrs, all shots, long weaned, 500-850 lbs.
- 60 homeraised blk str & hfrs, long weaned, shots, 800-900 lbs.
- 100 blk & bwf str & hfrs, long weaned/shots, 500-650 lbs.
- 50 blk hfrs, green grass condition, 575-625 lbs.
- 20 Hereford str, green grass condition, 575-625 lbs.
- 50 Blk str & hfrs, bunk broke/ 2 rds shots/ weaned Nov., 750-850 lbs.
- 26 Blk str & hfrs, long weaned/ 2 rds shots, 600-750 lbs.

SELLING AT 12:00 NOON

• 25 Big Fancy Angus & BWF (OCV) 1st calf hfrs with 30-45 AI sired Conneally Comrade Angus calves by side. (All shots including scour-guard)

SPECIAL STOCK COW & BRED HEIFER SALE

WED., MAR. 20 • STARTING 11:00 AM

BULLS: SELLING FIRST @ 11:00 AM

- CLINE CATTLE COMPANY: 15 Fall yearling Angus, SimAngus, Red Angus bulls, ready for heavy service. See our ad on page 25 of this issue for more information.
- 2 Registered blk Angus bulls (16 mos), Pay Grade & Coleman Knight breeding.

1st CALF HEIFER PAIRS:

- 10 red Angus 1st calf hfrs w/ 40-60 day calves by side, all shots.
- 10 blk Angus 1st calf hfrs w/ 40-60 day calves by side, all shots.
- 40 Big Fancy Angus & BWF (OCV) 1st calf hfrs with 30-45 AI sired Conneally Comrade Angus calves by side (All shots including scourguard).
- 25 blk & blk baldy 1st calf (OCV) hfrs with 3-4 week Angus sired calves by side (hfrs had all shots plus scourguard).

REPLACEMENT HEIFERS:

- 12 choice reputation BWF open replacement hfrs, 800-850 lbs.

PAIRS

- 40 blk & blk baldy cows (3-6 years) with early Jan. blk Angus calves by side
- 25 blk/bwf & Red Angus cows, 3-6 yrs. old, early Jan. & Feb. Angus sired calves by side

If you have any consignments for this special sale, please give us a call so we may advertise them for you!

Upcoming Special Stock Cow & Bred Heifer Sale Dates • Wednesday's starting at 11:00 AM

2019: March 20 • April 10 • May 1

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

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Cell: 785-532-8381	Cell: 620-382-7502	Cell: 785-587-7824	Cell: 785-410-5011	Home: 785-537-7295	Cell: 785-633-4610	Cell: 785-556-1422	Cell: 785-562-6807	Cell: 785-447-0456	

Different farm lease agreements meet individual needs

By Jeri Geren, Wildcat District diversified agriculture and natural resources agent

Renting and leasing is not an uncommon practice for those involved in agriculture. In fact, it is estimated that nearly 50

percent of Kansas farm and pasture land is rented. With that in mind, it is important to recognize the different types of leases developed to meet the needs of farmers and ranchers.

A lease is a contract

and terms of the lease will be interpreted and enforced in light of the contract law. It is important that both parties to a farm or ranch lease understand the details of their lease agreement and the laws that affect their lease.

The types of land rental agreements vary widely from one farming area to another and these differences are often based on long-standing traditions. For crop production, there are three primary types of lease agreements. These

include: fixed cash, crop-share or flexible lease agreements. There are advantages and disadvantages to each, so it's best to find the one best suited for individual scenarios.

Fixed Cash Lease- Under typical cash leases, the landowner would receive a predetermined cash fee from the tenant, regardless of the crop yield or commodity prices. The landowner would also be responsible for property and building taxes. The tenant receives all the crop income (including government program payments), pays all the crop expenses and makes all crop management decisions.

Crop-share Lease- In most cases, the landowner furnishes the land and a share of the costs of expenses like fertilizer, seeds and pesticides. The tenant furnishes all the labor, fuel and equipment. Both parties receive a share of the crop and government payments.

Flexible Lease Agreements- These variable lease agreements allow the lease payment or crop share to vary depending on yields and/or prices. In some cases, the actu-

al rent is not determined until after the crop is harvested. Some examples of flexible lease agreements include: share of the gross income, adjustments for yield only, adjustments for price only and base rent plus a bonus.

In all lease agreements, it is important that both parties consider the advantages and disadvantages for each option. Good communication between the landowner and tenant is essential to ensure both parties' concerns and questions are answered. A written lease reduces confusion and misunderstanding by setting forth rights, duties and responsibilities for each party. It is advisable to consult with an attorney concerning lease laws, the terms of the lease and its potential problem areas before entering into any agreement. There are many example lease agreements, blank forms and several helpful resources that can be obtained at any of the Wildcat District's office locations.

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

8TH ANNUAL
MAY-WAY FARMS PRODUCTION SALE >> **MARCH 9, 2019**
578 E 1260 Rd, Baldwin City, KS

MAY-WAY UNANIMOUS E109				
CED	BW	WW	YW	\$B
-1	+2.5	+91	+148	\$143

MAY-WAY UNANIMOUS E102				
CED	BW	WW	YW	\$B
+9	+3	+66	+122	\$138

MAY-WAY ACCLAIM E98				
CED	BW	WW	YW	\$B
+6	+7	+78	+140	\$171

NEW LOCATION!
NEW DATE!!

MAY-WAY PLAYBOOK 863				
CED	BW	WW	YW	\$B
+11	-.4	+62	+1113	\$120

MAY-WAY PERFECTION 832				
CED	BW	WW	YW	\$B
+1	+4.4	+82	+109	\$169

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14305 210th Rd
Erie KS 66733
620-431-7363
jdegeer@erieks.net

Mulroy Farms LLC
Tim Mulroy
13141 190th Rd
Mayetta, KS 66509
785-640-6401
tim@blackgoldinc.biz

Bar Arrow Cattle Co
Stuart Jarvis
25 E. Limestone Rd
Phillipsburg, KS 67661
785-543-5177
bararrow@ruraltel.net
bararrowcattlecompany.com

Post Rock Cattle Co.
Bill & Leland Clark
3041 E Hwy 284
Barnard, KS 67418
785-792-6244
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GUN, COIN & COLLECTIBLES AUCTION

SATURDAY, MARCH 16, 2019 — 9:00 AM
Lawyers Title Building, 5715 SW 21st Street
TOPEKA, KANSAS



Taurus PT22 Long Rifle Pistol, North American Arms 22 Magnum 5 shot revolver, Jukar Derringer Philadelphia, Marlin Model 30 AW 30-30 with Simmons Scope, Ithaca Arms Model 37 Featherlight 20g, Winchester Model 12 shotgun, Remington Model 31L 16 ga shotgun, Remington Model 1100 12 ga auto skeet shotgun, Remington Model 760 pump 30.06 rifle, Ruger Sturm 22 long rifle Automatic Pistol, Remington Model 550 1 22 Long Rifle, misc ammo; Coins: silver half dollars, silver dollars, Presidents dollars, gold, foreign, & misc collector coins; misc collectibles including stamps/albums, Elvis plates and misc collectibles, and more.



See website for complete listing & photos!

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REAL ESTATE AUCTION

THURSDAY, MARCH 14, 2019 — 7:00 PM
Auction to be held at the Clay Center Armory,
12th & Bridge Streets — CLAY CENTER, KANSAS

**294.58 acres of Clay County, Kansas
CROPLAND, GRASS and RURAL RESIDENCE**

TRACT 1: That part of the E2 of Section 18-8-3 which lies south of the Republican River, less a parcel with residence to the southwest which has been sold. This tract is located in Blaine Township and consists of 140.54 acres according to FSA records. There are 95.43 acres of cropland which includes 81.29 acres of Republican River bottom ground to the north. Soil types on the river bottom are primarily Class 2 Eudora with small areas of Class 2 Class and Class 1 Muir. There are 14.14 acres of upland to the south in two fields. The soil types on the upland are Class 3 and 6 Geary soils. There are 29.87 acres of grass along 16th Road to the south. The remaining 15.24 acres include perimeter land along the bottom ground. This tract is located one mile south of Clay Center on the west side of Highway 15.

TRACT 2: The NW4 of section 32-7-3 less a 23.57 acre tract to the south, Clay County, Kansas. This tract is in Hayes Township and consists of 130.47 acres according to FSA records. The entire tract is classified as cropland. There are 125.57 tillable acres and 4.90 acres of waterway. Soil types include Class 1 Muir, Class 2 & 3 Crete and Class 3 Geary. There is nearly one half mile of frontage along Highway 15 and one half mile along 20th Rd. From Clay Center follow Highway 15 one mile north to 20th Rd. and the northwest corner of the tract.

TRACT 3: A tract to the south of the NW4 of Section 32-7-3, Clay Center, Kansas. This tract is located just one half mile north of Clay Center, Kansas on the east side of Highway 15. It includes a 3.63 acre farmstead and 19.94 acres of pasture and trees. Total acres are 23.57 according to FSA records. It is located just south of Tract 2 and runs one half mile to the east along the north edge of Greenwood cemetery. The 1&1/2 story wood frame house was built in 1928. It has 1,950 square feet of living area, 1,248 of which are on the main floor. There are 4 bedrooms with 3 upstairs and 1 on the main floor. There is a full bath. There is central heat and air conditioning located in the partial unfinished basement. There is a good lateral field, a good well, City of Clay Center electricity, and 2 large propane tanks which are partially full. This is a nice place. The house is cozy, well maintained and well insulated. **Open house times: Sunday, March 3 from 1:00 to 4:00 & Thursday, March 7 from 5:00 to 7:00.**

TERMS: Contracts to close on or before April 30th, 2019. The buyer is to pay 10% down day of sale with the balance due at closing. Title insurance and escrow fees are to be paid 1/2 each by the seller and the buyer. The seller will pay 2018 and all prior years property taxes. The 2019 property taxes on Tracts 1 and 2 are to be paid by the buyer. The buyers of Tracts 1 and 2 will get immediate possession. No crops are currently growing on these farms and they are open for spring crops. The buyer of Tract 3 will get possession on April 30th after closing. The 2019 property taxes on Tract 3 will be prorated to April 30th. Property taxes for Tract 1 were \$1,906.74. Tracts 2 and 3 are taxed together and the total was \$3,989.44. Local taxing authorities will determine the taxes for each tract after the sale. The buyers will receive all mineral rights. The contract, deed and down payment will be escrowed at Clay County Abstract & Title Company, 509 Court, Clay Center, Kansas 67432. Announcements made sale day to take precedence over printed matter. The sellers and their agents are not responsible for accidents. Tract 3 sells subject to owner's confirmation. The auction firm is working for the sellers.

Go to kretzauctions.com or kansasauctions.net for the listing, FSA maps, and any additional information, updates, or changes.

PEGGY HOUSER & NANCY SALOMON, SELLERS

Auction conducted by: Clay County Real Estate

Greg Kretz, Salesman & Auctioneer: (785) 630-0701

Expert discusses practical ways to reduce disease challenges

By Kasey Brown
 "I'm not going to answer a lot of questions today, but I will leave you with better questions," began Robin Faulkner as part of the 26th Cattlemen's College, hosted in conjunction with the Cattle Industry Convention & NCBA Trade Show in New Orleans, La. The Zoetis cattle and equine technical services veterinarian urged cattlemen to think through their management systems to be a "producer cattleman instead of a consumer cattleman."

The dogma of an animal health program is that it's often thought of as a calendarized list of products and services. Just because many people believe something doesn't make it right. It just makes it popularly wrong, advised Faulkner. An animal health program is built on a foundation of managing exposures to potential pathogens and accessing premium markets.

He likened an animal health program to a fence. A fence needs a corner post and four strands of wire. If the fourth strand breaks, three strands aren't going to do well keeping in cattle. However, if

there was a fifth strand, then one broken strand still leaves a strong fence.

He calls vaccination that "fifth strand" of an animal health program and warns against letting products alone be a single strand. Don't rely on vaccines or dewormers to fix problems if you don't manage cattle properly. He says the corner post is biosecurity, and the other strands are biocontainment, enzootic stability and components of stress management like how, when and how much pathogen exposure.

Biosecurity is the "if" of pathogen exposure to external diseases, he said. This prevents movement of potential pathogens into your herd. Historic biosecurity included isolating new purchases for 30 days. However, there is also risk to your new purchase from pathogens in your current herd. Faulkner suggested talking with

your veterinarian about things you should test for or ask about.

About 70% of disease movement is not through cattle, but by people accessing your property and taking those pathogens elsewhere.

Biocontainment is best thought of as internal biosecurity, Faulkner said. This is the movement of potential pathogens within and between groups in your herd. It's also the what, when, how many and how much of pathogen exposure that already exists in your herd.

The goal, Faulkner explained, is to create an environment where a present or introduced pathogen causes no losses, creating endemic stability.

"To get endemic stability, we don't 'prevent' exposure, we manage the timing and dose to prevent disease," he said.

There can be, and often are, pathogens present

within herds, but the disease itself is absent because the animals have been exposed enough to have an immunity to it. The exposure may create a "carrier" cow. Her colostrum immunity is shared with the calf, giving it temporary protection. Then when the calf is exposed to the pathogen later, it has active immunity.

Good management will reduce pathogen exposure at the wrong times, like when cattle are excessively stressed at weaning or when they are commingled. Don't introduce these stressors when pathogen load is high. Commingling can be one of these stressors, and don't forget that commingling herds managed at different locations can produce extra pathogen exposure.

"Disease does not respect ownership or branding irons," Faulkner said. "Think about when to expose bulls and cows to each other. Don't do it when both have their job to do."

Don't add new disease pathogens to the mix when reproduction success is already on the line.

He didn't give many answers, but wanted producers to think through when cattle immune systems are weakened by stress and how reducing those might be possible. Could you time vaccines differently?

"I don't have an answer to prevent all disease, but have a strong fence," he concluded.

HERINGTON LIVESTOCK COMMISSION CO.

CATTLE SALE EVERY WEDNESDAY: 11:30 AM
SELL HOGS 1ST & 3RD WEDNESDAY OF EVERY MONTH
2/27/19 SALE RESULTS

COWS		STEERS	
Tampa, 1 blk	1645@64.00	Burdick, 1 red	2300@75.00
Herington, 2 blk	1267@62.00	Elmdale, 11 blk	504@174.50
Alta Vista, 1 blk	1705@62.00	Elmdale, 19 blk	655@151.50
Alta Vista, 1 blk	1595@62.00	Marion, 3 mix	655@141.50
Alta Vista, 1 blk	1285@61.00	Hope, 9 red	722@140.00
Burdick, 1 red	1470@60.00	Marion, 65 mix	844@138.60
Herington, 1 blk	1570@60.00	Dwight, 64 blk	830@138.25
Alta Vista, 1 red	1600@60.00	Burdick, 10 red	824@135.25
Herington, 1 blk	1100@58.00	White City, 60 blk	858@135.00
Tampa, 1 blk	1690@58.00	Hope, 31 red	882@134.50
Burdick, 1 blk	1335@56.00	White City, 60 blk	910@133.75
White City, 1 bwf	1375@56.00	Lincolnville, 60 blk	874@133.00
BULLS		Herington, 84 mix	944@132.85
Tampa, 1 blk	2440@85.00	Ramona, 55 blk	961@132.50
Tampa, 1 blk	2025@84.00	Marion, 2 mix	775@132.00
Dwight, 3 blk	2160@82.60	Durham, 37 red	937@131.60

PAIRS
 White City, 1 blk 1530@1,175.00

HEIFERS
 Hope, 5 red 632@135.00
 Hope, 23 mix 762@132.10
 Lincolnville, 27 mix 761@131.00
 Durham, 31 red 856@128.10
 Burdick, 4 mix 759@128.00
 Hope, 64 mix 808@127.75
 Lincolnville, 8 mix 681@127.00
 Marion, 64 blk 845@126.60
 Marion, 3 mix 720@125.00

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585.08 ACRES WABAUNSEE COUNTY, KS
LAND AUCTION
SELLING 2 TRACTS • ROCK CREEK TRIBUTARY
ROLLING FLINT HILLS
TUESDAY, MARCH 12, 2019 • 6:00 PM
AUCTION LOCATION: Morris County 4-H Center, 612 US Hwy 56 — COUNCIL GROVE, KANSAS
SELLERS: ADAM & JILL TREGEMBA
PROPERTY LOCATION: From Alta Vista, KS: 12 mi. m/l East on Hwy 4 to Chalk Rd., then 7 mi. South to old K4 Rd., then 2 mi. West to the SE corner of Tract 1. From Council Grove, KS: 1/2 mi. East on 56 Hwy. to Old Hwy. 4, then N/NE 13 mi. m/l on old Hwy. 4 continuing on 300 Rd. to Old K4 Rd. and E to intersection of Des Moines Rd. Tract 1 is East 1/2 mi. on the NW corner of Townsite Rd. & Old K4 Rd. Tract 2 is 1/2 mi. S. on Des Moines Rd. to the NW corner of the property.
Contact Griffin Real Estate for Showing & More Information.
See www.GriffinRealEstateAuction.com for full sale bill & photos!

Griffin Real Estate & Auction Service LC	RICK GRIFFIN Broker/Auctioneer Cell: 620-343-0473	CHUCK MAGGARD Sales/Auctioneer Cell: 620-794-8824
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ANTIQUUE AUCTION

SUNDAY, MARCH 17, 2019 — 9:00 AM

Auction will be held in Kenwood Hall at the Saline Co. Fairgrounds in SALINA, KS

ANTIQUES & COLLECTIBLES
 Furniture: oak double secretary; Mission oak desk; princess quarter sawn oak dresser; mahogany serpentine drop front desk; ice cream table & 4 chairs; 2 pc. settee set; settee; dark mirrored dresser; open china cabinet; cupboard; 2 stack bookcase; game table; 6 Duncan Phyfe chairs; oak parlor table; tall pie cupboard; vanity; small dresser; 3 organ stools; 2 piano benches; 2 rocking chairs; assortment chairs; 2 mirrors w/hooks; original iron Jockey hitching post; floor lamp; Fenton (Silver Crest, Gold Crest, Aqua Crest, Peach Crest, Coin Dot, Hobnail in variety of colors, Stretch glass items, many artist signed pieces, satin glass multiple colors, pr. Dot Optic kerosene lamps); Art glass; custard souvenir pieces; RS Prussia;

pitcher & glass sets (Fenton, Northwood, LE Smith, other glass company's); McCoy 1905 "Loy-Nel-Art" jardiniere & pedestal; McCoy pine cone tea pot w/creamer & sugar; McCoy vases; pitcher & bowl sets; Nippon; carnival glass variety of colors & makers; pickle castors; biscuit jars; brides baskets; Fiesta; selection Imperial glass; selection Westmoreland glass; old milk glass; 40 pcs. Roseville; 20 pc. Dryden; 2 pc Eye winkle green candy dishes; 36 pc. Hull; Van Briggle pottery; Chez canister set; Shawnee cookie jars; 20+ hen on nest; cake plates; Precious Moments; Occupied Japan; Hummel figurines & plates; tea pots; Diamond point glass; Vaseline glass; head vases; lady figures; depression glass many patterns w/ S&P, cookie jars, candy dishes, other; 3

Epergne's; 35+ cups & saucers; Goofus glass; selection bells; crystal prisms; 3 tumble ups; hanging kerosene lamp; Fairy lamps; Aladdin electric lamps; kerosene lamps; assortment of good electric lamps; 6 antique clocks; banjo clock; large assortment pictures; photo albums; dollies; costume jewelry; WWII uniform; Navy uniform; assortment mirrors; 1930 Red Wing Boot #651 (w/newspaper article); assortment kitchen items; linens; assortment crocks inc.: Red Wing, birch leaf, Diamond; V-belt driven bicycle; tin punch lights; antique tools; Coleman lanterns; wash boards; Casio cash register; signs; railroad sign; cast iron seats; assortment toys; drug store malt machine; very large collection of other collectibles.

NOTE: Debra had to close her shop on account of health reasons. She has a very quality shop with many very nice pieces. This is a very large auction, note the starting time at 9:00 a.m. Check our web site for pictures at www.thummelauction.com.

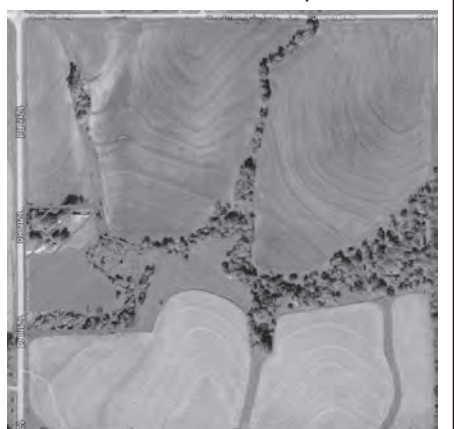
DEBS ANTIQUES
 Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC
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LAND AUCTION

148 Acres m/l Oketo Township, Marshall County, Kansas

FRIDAY, MARCH 22, 2019 — 2:00 PM
 Auction held at the Helvering Center, 111 S. 8th St. — MARYSVILLE, KS 66508

PROPERTY LOCATION: Located at intersection of 12th Road & Deer Trail Road (aka as Marietta corner along Oketo Hwy) Marshall County, Kansas
LEGAL DESCRIPTION: The Northwest Quarter of Section 25, Township 1, Range 7 East, LESS the following described tract: beginning at a point 1230 feet south of the Northwest Corner of the Northwest Quarter of Section 25, Township 1, Range 7 East; thence East 420 feet; thence Southeast 324 feet; thence East 68.22 feet; thence South 540.31 feet; thence West 700.71 feet; thence North 788 feet to the point of beginning, all in Marshall County Kansas.
 This tract lays well and provides an excellent location for farming, residing, hunting & investing.
 Look this property over before the sale!
 CONTACT Donald Prell Realty & Auction, LLC



- 147.59 m/l deeded acres, 143.2 m/l taxable acres
- 118.20 +/- dry land acres, 22.20 +/- native grass acres, 2.80 +/- tame grass acres
- USDA Farm Service Agency 143.05 m/l acres farmland, 116.92 m/l acres DCP cropland
- FSA shows in 2018 property was enrolled in ARC-CO
 - wheat base acreage 39.0, PLC yield 45
 - grain sorghum base acreage 39.6, PLC yield 79
 - soybean base acreage 37.2, PLC yield 33

TAXES: Year 2018 was \$2,514.12. Seller paid 2018 and prior taxes. Buyer will pay all 2019 and after taxes.
TERMS & POSSESSION: Cash with 10% down payment, earnest money to be paid day of sale, with balance due on or before 45 days from auction date. Title insurance will be used. Owner's title insurance, contract, deed, and escrow closing fees will be split 50/50 between buyer and seller. Possession will be given the day of closing. Any 2018 farm program payments retained by the seller.
ALL PERSPECTIVE BIDDERS: Possession on closing. Seller acknowledges buyer may have access to work ground after auction and prior to closing. Property will be sold in its present condition without warranties or inspections by seller or broker. Purchasers are urged to inspect this property and have any inspections completed before the day of the auction. Information given is from sources deemed reliable, but not guaranteed by seller or broker. Donald Prell Realty & Auction LLC is acting as the Seller's Agent and represents the seller's interest. Statements made day of sale take precedence over advertisements or previous statements. Boundary surveys will be at buyer's expense, if desired.

For a copy of the sale bill visit our website at donaldprellrealtyauction.com
 Formerly belonging to Darlene Kenton, deceased

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UPCOMING SPECIAL ISSUES

- Sheep & Goat – March 12th Edition
- Salina Farm Show – March 19th Edition
- Bring On Spring – March 26th Edition
- Hay & Grazing – April 9th Edition

DEADLINES:
 Sheep & Goat – March 7th, before 12pm
 Salina Farm Show – March 13th, before 12pm
 Bring On Spring – March 20th, before 12pm
 Hay & Grazing – April 3rd, before 12pm

To advertise in one of these special issues, contact your GRASS & GRAIN sales rep:



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Saline Co.- 78.5 Acres, 74 Acres Crop Land. Eastern Saline County. Chris 493-2476
Ottawa Co.- 10 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476
Ottawa Co.- 20 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476
Ottawa Co.- 20 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476
Homes For Sale
Saline Co.- 2.7 Acres m/l, Southeast of Saline. 2 Story vintage restoration. 54x99 Morton Building. Chris 493-2476
Saline Co.- 2.9 Acres. Peaceful Country Setting. One Level Living. 34 X 34 Garage/Shop. Chris 493-2476
Saline Co.- 6.7 Acres w/ 5,000 Sq. Ft. Morton Building. 7+ Bdrms./4 Baths. Irrigation Well. Rural Water for Home. Steve 342-9138
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R190 Gehl skid loader
Ford 900 tractor
Gehl 1870 rd. baler
2014 Gleaner S77 combine
1998 Gleaner R72
Gleaner 8200 30' w/air reel
Gleaner 800 30' flexhead
Gleaner 400 30' rigid
Gleaner 8000 25' flex head
MF 883, 8row cornhead
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'04 Claas 900.....Call
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Agco Star 8360.....\$45,000

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'94 Gleaner R62.....\$40,000
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'11 3000 12R30.....\$50,000

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'91 R60 RWA\$13,500
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SALVAGE COMBINES
ALLIS N7-6, L2, L, M, G, F2, F, CII, AII; JD 8820, 7720, 7700, 6600, 4400, 3300, 105, 95, 55; MF 860, 760, 750, 510, 410; IH 1680, 1480, 1460, 915, 815, 715, 503, 403; NH TR70-85, 1400, 995, 985, 975.
SALVAGE TRACTORS
ALLIS 7000-7080, 220, 210, 190XT; D17-19; JD 84-8630, 7520, 6030, 5020, 4630, 4430, 4020, 3020, 720, 730; CASE 1470, 1370, 1270, 1200, 1070, 930, 400; IH 1568, 1466, 1256, 1066, 1026, 806; FORD 4-5-6-8-9000; MF 2745, 1155, 1100, 90, 85; OLIVER 2150; MM G1000; WH2-150, 4-150.
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Rakes: VR1428, 2- VR1224
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LARGER BALE FORKS
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CIH 2090 tractor..... CALL
2014 Case IH Puma 185, 2600 hrs\$73,000
Kubota M110XDTC tractor 4,700 hrs.....\$37,000
JD 220 rigid head..... \$900
JD 920 rigid head..... \$4,000
1990 JD 853A rowhead.....
.....\$10,500
CIH 2142 draper 35' ... \$20,500
JD 635 flex draper.....\$43

MACHINERY

SALVAGING COMBINES
N5, N7, L2, M, F, G, C, CII, AII, A&E, K Gleaner. 6620, 7720, 8820, 7700, 6600, 4400, 3300, 105, 95, 55, JD. 915, 1480, 1460, 1420, 815 IHC. 860, 760, 750, 510, 410, 300 Massey. Several black & orange Gleaner corn heads.

Jack Boyle
Vermillion
785-382-6848 785-564-0511



New Equipment
604N Baler
605N Baler
504R Baler
R2300 Twin Rake
VR1224 12 Wheel Rake
VR1428 14 Wheel Rake
BPX9010 Bale Processor
4' & 5' Net Wrap & Twine

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504R Baler
6650 Rancher with net
TE170 tedder
Winkel Calving Pen
Portable Corral
R2300 rake
BPX 9000 Bale Processor
MC 3700
Perfect Tree Saw
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5500 Rebal Baler
605N
555 XL
605M baler
TM850 Mower Demo
3 pt tree shear

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1974 IH 1066 no cab
1988 JD 4650 Powershift
5800 hrs, 2wd
1961 JD 3010D WFE,
Koyker K-5 loader
Gehl 2500 skid loader, 48"
bucket.
2014 JCB205 skid loader
2015 JD 323 E track skid
loader, 140 hrs.
2013 JD 323D track skid
loader, 560 hrs.
HAY EQUIPMENT
New H&S AR 12 wheel
carted rake
MISCELLANEOUS
Landoll 7530-26' VT Plus
New Wemhoff 10' & 12'
Box Scraper
Patriot 37' header trailer
JD 637 29' disc
JD 38 9' sickle mower
2006 Case IH 1200 16 row
30 stacker planter

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IN STOCK - NEW MASSEY
FERGUSON HESSTON
2900 SERIES**
New Idea 5409 disc Mower
Cond., 9', kept shedded, good
condition. Stk#1460\$6,250
Sunflower 6631-29 VT tool, 14"
Hydraulic rolling basket finisher,
stk#5103..... New In Stock
2012 MF 978 mechanical self
leveling ldr, w/ MF 7619 Dyna
6 mounting brackets, very
good cond., single lever Hyd.
coupler release, 95" grapple
bucket w/ Silage screen.
Stk#7151 consigned....\$8,900
2007 ASV SR80 compact track
ldr, 2,315 hrs, open cab, tracks
good, stk#3067.....\$26,000
2011 Terex PT100G forestry
1,150 hrs, stk#3067...\$49,900
2011 MF 8200-25 flex head,
new SCH sickle last yr, guards
good, kept shedded, needs
few outer fingers on auger.
Stk#1943\$19,000
2007 Challenger MT425B cab
PFA, 1,600 hrs, power shuttle,
16x16 power shift, 3 remotes,
1000 RPM PTO shaft incl.,
18.4x30 rear tires. Clean, good
cond. Stk#6582\$34,900
2010 AGCO Hesston 9635,
2,035 eng. hrs, 1,400 header
hrs. Trimble 750 auto
steer, dbl. Windrow attach.,
very clean, well maintained.
Stk#6950. AGCO Hesston
9190 Razor bar rotary disc
header, Stk#6951.....\$69,900
NH 616 Rotary disc mower, very
clean, kept services, 7'-8"
swath.....\$5,900
2015 MF 4608 platform 2WD
tractor, 755 hrs, 2 remotes,
power shuttle, very good
cond., 67 PTO HP. Stk#6861..
.....\$22,900

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20 8x38 New\$825
340/85 R28 New\$485
520 70R30 Buffered\$700
480 70R28 Buffered\$500
420 85R34 Used 70%\$300
520/85R42 80%\$800
7 184x38 10P New\$525
600/65 R28 New\$1,000
9 360/70R28 Buffered\$325
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Kubota M6-111 MFD w/ ldr
Kubota M5-111 MFD w/ ldr
USED TRACTORS
2016 Kubota M5-111 HDC 12
4wd, ldr.
2013 Kubota RTV 500 utility
veh.
2015 Case IH Maxum 125MC
2014 Case IH Maxum 115
MC, MFD, ldr
2014 Kubota L5460, HSTC,
4WD, Cab
MISCELLANEOUS
2017 Case IH DC102, DMC
2010 Case IH RB464, net
twine
2016 Bush Hog 2215 15' cut-
ter
2014 Bush Hog 2815 15' cut-
ter
1988 Case IH 8330 Moco

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er. Used last in 2014, with
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pressure springs, corn, bean &
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Jon Blue pump. Stk#6448.....
.....\$1,900
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Stk#4127 New In Stock
MF TD 1635 hay Tedder.
Stk#4082 New In Stock
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COMBINES
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2016 JD 630FD
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3370 hrs
'96 JD 8300 MFD
'05 Case IH MXU 125 MFD,
cab, ldr
'82 IH 5488
MISCELLANEOUS
'18 Case IH 2150 planter
16/30
2- 2012 Case IH 1250 plant-
er, 16x30
'12 Case IH 1250 16x30 w/
liquid fertilizer
'06 Case IH 1200 PT 12/30
planter
Case IH 1200 planter 6/30,
liquid fertilizer
'14 Case IH 5130 Combine,
4wd 775 engine hrs, 518
sep. hrs
'11 Case IH 3406 corn head
w/ trailer
'10 Case IH 2020 flexhead
30' w/ air reel
'05 Killbros 1170 grain cart
'89 Case IH 1063 corn head
'09 Case IH RB564, 3,600
bales
'01 NH 1475 MOCO 14'
'02 NH 1475 MOCO 14'
Vermeer 604M
'02 Case IH 4300, FC 27'
GP Turbo-Till 3000
'96 Sunflower 1232-29 disk
'01 Case IH 3950 disk, 33'
'07 Case IH 340 25' disk
'05 Case IH 340 disk 28'
Sunflower 4212-11 disk chisel
2- Case IH 6500 conser till,
14'
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EMPLOYMENT

**Ag retailers look to retool
strategy for success in
the era of e-commerce**

Online agricultural retail startups are compressing margins for traditional ag retailers through increased competition and price transparency. While e-commerce platforms remain a relatively small portion of the overall ag retail marketplace, growth in the segment has been significant in recent years and will continue to increase. According to a new report from CoBank's Knowledge Exchange Division, traditional ag retailers will need to transition to an omni-channel strategy in order to grow in the digital age.

"Online competition will continue to intensify and pressure margins for traditional ag retailers in the years ahead," said Will Secor, grain and farm supply economist with CoBank. "Traditional ag retailers that successfully embrace the challenges introduced by e-commerce will succeed as tomorrow's cutting-edge ag retailers."

E-commerce platforms that lack a physical footprint will struggle to fully serve farmers, especially in the tight and uncertain time windows that typify production agriculture. Some traditional ag retailers have already begun responding to the challenge by doubling down on their service and distribution capabilities while building their own online presence.

Adapting to Survive
Traditional ag retailers are already undergoing transformational change from manufacturer mergers, farmer consolidation and technological advancements along the agricultural supply chain. These changes are forcing traditional ag retailers to alter their practices and strategies to better compete and meet their farmer-customers' needs.

The growth of online ag retail will accelerate this change. However, it will not change the basic business model of ag retailers, which is grounded in product distribution and service provision. Instead, e-commerce will pressure traditional ag retailers to add online options for their customers while better differentiating themselves from online-only retail outlets.

Farmers Moving Online
Only a small percentage of crop farmers are purchasing inputs online today, but that is beginning to change. In 2017, USDA figures show that only 25 percent of crop farmers purchased inputs online,

up from just 16 percent in 2013. The total number of farmers purchasing inputs online increased by 40 percent over these four years.

This trend is likely to continue. For one reason, larger farms are more likely to purchase inputs online. Thirty-nine percent of farms with \$250,000 or more in sales purchased inputs online compared to 24 percent of farms with sales of \$10,000 to \$99,999.

Research by Purdue University indicates that on average, a new generation of farmers will be taking over decision control of the farm in the next eight years. These younger farmers will likely be more comfortable with technology and may prefer e-commerce options.

Minding the Margins
Despite relatively low sales, e-commerce companies pose a threat to brick-and-mortar ag retailers in two ways. First, any new competitor will erode sales and margins to some degree and second, e-commerce sites increase transparency for product prices.

These e-commerce sites provide farmers with several sources of product price information that are just clicks away. Farmers can then leverage that information in negotiations with local brick-and-mortar retailers. Traditional ag retailers that bundle products and services together under the product price are losing some customers to e-commerce sites that provide only the product. The e-commerce channel allows cost-sensitive farmers to eliminate service costs like custom application and product warranties.

"In order to remain profitable and respond to this price pressure, traditional ag retailers will need to better communicate the value of services they provide with the product, or separate the service offerings from the product and lower the product price," said Secor.

Seizing the Competitive Advantage
The physical footprint of traditional ag retailers is one of their competitive advantages. E-commerce platforms without a physical presence are less equipped to provide farmers with immediate support during uncertain time windows caused by variable factors, such as pest pressure and weather.

However, an omni-channel strategy will likely be necessary for traditional ag retailers to succeed and grow in the digital age. This strategy provides farmers multiple avenues to interact with an ag retailer. A full online interface may be standard in the coming years with chat, video calls, e-commerce, service scheduling and other capabilities embedded in the online platform.

"Focusing on the competitive advantage traditional ag retailers have in distribution and service, as well as investing in their own online services, will allow them to succeed in the changing environment," said Secor.

A video synopsis, and the full report, "E-Commerce Disruption Pushes Ag Retailers to Focus on Distribution and Service," are available at cobank.com.

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Kansas State University researcher publishes study confirming experimental transmission of African swine fever virus through feed

As an African swine fever outbreak has moved rapidly throughout China and threatens to spread to new countries in Europe, a Kansas State University researcher continues to understand the possible routes for disease introduction and transmission. Megan Niederwerder, Kansas State University

assistant professor of diagnostic medicine and pathobiology in the College of Veterinary Medicine, is leading a team that is exploring how the currently circulating strain of African swine fever, or ASF, could spread in feed and feed ingredients. A new publication details the dose necessary to trans-

mit the disease when pigs ingest virus-contaminated feed or liquid.

"Although feed and feed ingredients are a less recognized transmission route for African swine fever, the global distribution of feed ingredients makes this pathway important to consider for transboundary introduc-

tion of the virus," Niederwerder said. "This study is the first to demonstrate that African swine fever can be easily transmitted through the natural consumption of contaminated feed and liquid."

The study, "Infectious dose of African swine fever virus when consumed naturally in liquid or feed," was published in Emerging Infectious Diseases. Niederwerder and collaborators found that the level of virus required to cause infection in liquid was extremely low, demonstrating the high infectivity of African swine fever through the oral route. Although greater concentrations of virus were required to cause infection through feed, the high frequency of exposure may make contaminated feed a more significant risk factor.

"Working with statistician Trevor Hefley, we were able to model the probability of African swine fever infection when pigs consumed a contaminated batch of feed over time," Niederwerder said. "The likelihood of infection increased dramati-

cally after even ten exposures, or consumption of one kilogram of contaminated feed. Modeling multiple exposures increases the applicability of our experimental data to what would occur at the farm."

Agricultural processing methods for feed ingredients can put them at risk for contamination in countries with African swine fever. One common practice in China, for instance, is to dry crops on roadways. Those roadways could be contaminated by traffic from trucks containing infected pigs. Processing ingredients on contaminated equipment is another possible source of transmitting virus particles to feed.

"Millions of kilograms of feed ingredients are imported from countries where African swine fever virus is currently circulating," Niederwerder said. "Our previous work demonstrated that a wide range of feed ingredients promote survival of the virus after exposure to environmental conditions simulating transboundary shipment."

Introduction of African swine fever virus would be devastating to U.S. swine production because it is a trade-limiting disease that causes severe clinical signs and high mortality in pigs. Another costly swine disease, porcine epidemic diarrhea virus, was introduced into the U.S. in 2013 and caused the death of an estimated seven million pigs within the first year. Subsequent investigations unveiled the risk of feed for introduction and transmission of swine viruses. Niederwerder's goal is to prevent another catastrophic disease outbreak.

Peter Dorhout, Kansas State University vice president for research, said protecting U.S. producers and consumers against disease outbreaks is an area in which the university excels.

"K-State has world-renowned research strengths in providing biodefense for global threats to agriculture," Dorhout said. "We are proud to have some of the best, highly specialized facilities in which we can safely conduct this research, and Dr. Niederwerder's team is making great strides."

Niederwerder and her group conduct their work in the Biosecurity Research Institute, a bio-safety level-3 facility that has helped them perform large studies. Their first study found that the African swine fever virus could survive in a simulated overseas feed shipment. Now that the group has confirmed African swine fever transmission through feed and has identified the oral dose necessary for infection, the next step will be to identify ways to reduce or eliminate this risk, including chemical additives, storage time, heat treatments or other steps.

"African swine fever is arguably the most significant threat to worldwide swine production," Niederwerder said. "With no effective vaccine or treatment, preventing introduction of the virus is the primary goal of countries free of the disease. Our hope is that this research will further define possible routes of disease spread and develop mitigation strategies to prevent introduction into the U.S. swine herd."

The National Pork Checkoff and the State of Kansas National Bio and Agro-defense Facility Fund provided funding for the study. Kansas State University co-authors on the publication include Ana Stoian, doctoral student in pathobiology; Raymond "Bob" Rowland, professor of diagnostic medicine and pathobiology; Steve Dritz, professor of diagnostic medicine and pathobiology; Vlad Petrovan, doctoral student in pathobiology; Laura Constance, concurrent Doctor of Veterinary Medicine and doctoral student in pathobiology; Jordan Gebhardt, concurrent Doctor of Veterinary Medicine and doctoral student in animal science; Matthew Olcha, concurrent Doctor of Veterinary Medicine and doctoral student in pathobiology; Cassandra Jones, associate professor of animal science; Jason Woodworth, research associate professor of animal science; Ying Fang, professor of diagnostic medicine and pathobiology; Jia Liang, doctoral student in statistics; and Trevor Hefley, assistant professor of statistics.

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GUNS: JC Higgins Model 20, 12 ga., pump, adjustable choke; JC Higgins single shot 22, Model 100; High Standard Model B 22 pistol; Daisy #102 model 86 BB gun.

FURNITURE: Sofa; octagon wood table; old oak rocker; queen bed; 4 drawer oak chest; 4 drawer dresser w/wishbone mirror w/beveled glass; dining table w/4 chairs; wood cabinet; Banister bookcase; wicker chair; file cabinets; love seat; glider rocker; drop leaf end tables; card table; sev. lamps; lg. oval beveled mirror; clocks; P. Buckley Moss-Iowa Hay Ride picture & other pictures; tapestry wall hanging; floor lamp & other lamps; sm. round child's table & 2 chairs; jewelry cabinet; book shelf; futon; 2—McCalls cabinets; steel cabinet w/safe; wood dressing screen; wood carving picture.

GLASSWARE & COLLECTIBLES: Stamp collection (US First Day Covers Stamp Books (1955-1992); American Stamp Album; Foreign stamp albums; Set of Homer Laughlin china; Fiesta pcs.; 1893 World's Fair ruby flash cup; hand painted dishes; etched sherbet & wine glasses; Double Nine domino set; Spirit of St. Louis metal erector set (builds 25 planes); old metal toys (U.S. Army plane, grader, farm implements, Wyandotte toy Moto-Fix Tow Truck, Jumpin Jeep 22C, sm. Truck); old view master; old wood blocks; Roy Rogers Rodeo Ranch toy set in box; old pipes & tobacco jars; marbles; White Mountain salesman sample ice cream freezer; old milk bottles; insulators; sm. Granite pot; Ithaca metal gun sign; knick knacks; figurines; cookbooks; copper canister set; set of Community plate silverware & other silverware; old cheese box; Lincoln head penny books; Archie comic books (1968); lots of records; old books; old 7up openers; Coca Cola metal openers; National cash register; 1912 School house map (large); K-State print; Lots of posters (The Beatles, Mother Goose; John Lennon, &

sev. more); old framed magazine prints; lots of costume jewelry; cuff links; sev. belt buckles (Phillips 66, Kansas, Sunset Zoo, National Rodeo, etc.); carousel horse; doilies & linens; sad iron; old tools; Kansas State Royal Purple yearbooks; wood butter mold; old child's dishes & utensils; old scrapbook w/Post Office post cards; Landers improved brass scales; old washboard; porcelain door knobs; arrowheads; confederate memorial gun shaped letter opener; old ice tongs; sm. wood pully.

TOOLS, YARD & OTHER: Trimline 10 x 10 canopy w/2 awnings & banner; Craftsman 26", 9.0 HP elec. start snow blower w/ attachments; Lawn Boy push mower; Scotts fertilizer spreader; Old tools; old wood block plane; draw knife; sm. & lg. shop vac; Ryobi power washer; paint eater; Delta 18" variable speed scroll saw; misc. hand tools; ditto blade; wood clamps; pipe clamps; Tough Test router bits & others; metal stool stand; metal welding table; air compressor stand; pancake air compressor; Jet Air filtration system; Craftsman mitre saw; sev. coolers; yard art; garden tools; Ryobi hedge trimmer; Ryobi weed eater (battery or electric); 2—extension ladders; wheelbarrow; pole tree saw; garden tools; wood garden benches; lg. outside wood swing; patio chairs; misc. landscape/stone; U.S. Army blanket; binoculars (Jason, Manon & Bausch & Lomb); ammo boxes; fishing rods & tackle; office supplies; new computer monitor; lots of puzzles; pots & pans; picture frames.

FRAMING EQUIPMENT/SUPPLIES/HAND MADE WOOD ITEMS: Vacuseal 3244 C w/ vacuum pump (new); Xyron 850 laminating machine; sm. mat cutter; molding set; wood working books; lots of wood working patterns; wood carving kit; lots of map board; lots of misc. lumber; lots of barn board; oak & redwood lumber; lots of spray paint; misc. wood art; handmade wood name puzzles; & LOTS MORE!

Kansas Hay Market Report

Hay market trade activity is light to moderate. Demand remains moderate to good as supplies are generally light. Prices, however, remained steady for all hay types. Inquiries continue to come in daily, however folks are hesitant to relinquish any extra hay until they feel we are closer to green-up. If you have any extra hay to sell and/or need hay here in Kansas, use the services of the Internet Hay Exchange: www.hayexchange.com/ks.php.

Southwest Kansas

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered steady; movement slow to moderate. Alfalfa: horse, premium small squares 280.00-300.00. Alfalfa: Dairy 1.00-1.05/point RFV, Supreme 185.00-210.00, Premium 170.00-195.00, Good 160.00-170.00. Stock or Dry Cow 190.00-200.00. Fair/Good grinding alfalfa, 170.00-180.00. Ground and delivered locally to feedlots and dairies, 195.00-205.00 with an instance at 215.00-220.00; Bluestem, premium small squares 140.00-150.00; Sudan: large rounds 65.00-75.00; Cornstalks: Large rounds 65.00-75.00, ground and delivered 85.00-90.00; Wheat straw: large rounds 65.00-70.00. The week of 2/17-2/23, 10,832T of grinding alfalfa and 1,085T of dairy alfalfa were delivered.

South Central Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, alfalfa pellets, grass hay steady; movement slow to moderate. Alfalfa: horse, small squares 200.00-210.00. Dairy, 0.00-1.10/point RFV, Supreme 195.00-215.00, Premium

175.00-200.00, Good 165.00-175.00. Stock cow, 170.00-180.00 delivered. Fair/Good grinding alfalfa, 150.00-165.00. Ground and delivered locally to feedlots 180.00-190.00 with an instance at 200.00; Alfalfa pellets: Sun cured 15 pct protein 215.00-225.00, 17 pct protein 215.00-230.00, Dehydrated 17 pct 255.00-265.00; Grass hay: Bluestem, small squares 8.00/bale, mid squares none reported, large squares 130.00-140.00, large round none reported. Brome, none reported; Sudan: large rounds 75.00-85.00 with an instance at 100.00-105.00; Wheat Straw: large rounds 65.00-75.00. The week of 2/17-2/23, 4,370T of grinding alfalfa and 1,375T of dairy alfalfa were delivered.

Southeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, grass hay steady; movement slow to moderate. Alfalfa: horse or goat, 220.00-245.00. Dairy 1.00-1.05/point RFV. Stock cow 180.00-190.00. Fair/Good grinding alfalfa, 165.00-175.00. Ground and delivered, none reported; Grass hay: Bluestem, premium small squares 140.00-150.00. Good, mid squares 125.00-135.00, large squares, good quality 110.00-115.00, better quality, 130.00-140.00, large rounds 110.00-125.00 with an instance at 130.00. Brome, good, small squares 150.00-160.00, mid squares 140.00-150.00, large squares 145.00-155.00, large rounds 125.00-135.00; Sudan: large rounds 80.00-90.00; Oat hay, mid squares 150.00-160.00; Wheat Straw: mid and large squares 75.00-100.00. Mulch: large rounds 50.00-60.00. The week of 2/17-2/23, 1,188T of grass hay was delivered.

Northwest Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered steady, movement slow. Alfalfa: Horse or goat, 220.00-230.00. Dairy, Premium/Supreme 1.00-1.05/point RFV. Stock cow, fair/good 160.00-165.00. Fair/good grinding alfalfa, 140.00-150.00. Ground and delivered locally to

feedlots and dairies, 150.00-160.00; Alfalfa/oat mix, large rounds 100.00-120.00.

North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, grass hay steady; movement slow. Alfalfa: horse, premium small squares 9.00-10.00/bale. Dairy 1.00-1.05/point RFV, Supreme 185.00-210.00, Premium 170.00-195.00, Good 160.00-170.00. Stock Cow, 195.00-200.00. Fair/Good, grinding alfalfa, 140.00-150.00 with an instance at 160.00. Ground and delivered 170.00-180.00. Grass hay: Bluestem, small squares 8.00-8.50/bale, large squares 120.00-130.00, large rounds 100.00-110.00 with an instance at 125.00 to 135.00. Brome, small squares 9.00-10.00/bale, large squares 150.00-165.00, large rounds 115.00-125.00 with an instance at 140.00-150.00; Sudan: large rounds 80.00-90.00; Wheat Straw: small squares 6.00-7.00/bale, large squares 100.00-110.00, and large rounds 85.00-95.00. The week of 2/17-2/23, 501T of grinding alfalfa and 400T of dairy alfalfa were delivered.

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

*CWF Certified Weed Free

*RFV calculated using the Wis/Minn formula.

**TDN calculated using the Western formula. Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%). Guidelines are to be used with visual appearance and intent of sale (usage). Source: Kansas Department of Agriculture - Manhattan, Kansas Kim Nettleton 785-564-6709. Posted to the Internet: www.ams.usda.gov/mnreports/DC_GR310.txt

The buzz on meat substitutes discussed at NCBA

By Troy Smith

A significant buzz has coursed through cattle country and along the banks of the Potomac River regarding meat-substitute products. It's not about protein sources that consumers might choose as alternatives. It's about products whose purveyors have tried to make look, smell and taste like meat. It's about whether products made from laboratory-cultured animal cells can be called "meat" and promoted as such, even though they are not harvested directly from an animal.

Feeding the buzz was the tension between the U.S. Department of Agriculture (USDA) and the Food and Drug Administration (FDA) regarding who should have oversight of the production and labeling of so-called "fake meat." In November 2018, it was announced the agencies would share jurisdiction. Accordingly, the FDA would regulate cell collection and growth processes and, after cell harvest, USDA would regulate production and labeling.

All of this information and more was shared by a pair of National Cattlemen's Beef Association

(NCBA) staffers during the 2019 Cattle Industry Convention hosted in New Orleans, La. Mandy Carr Johnson, senior executive director of science and product solutions, and Danielle Beck, director of government affairs, led a tag-team discussion of the history of development and promotion of meat substitutes.

Johnson reminded the audience that meat substitutes are not new, referring to vegetable-based products meant to mimic meat and beef in particular. They've been marketed as healthier, more humane and more environmentally friendly than the real thing. They've been promoted as having "all the good and none of the bad." Omitted, however, are any potential negative attributes associated with the long list of ingredients with which many consumers are unfamiliar. Consumers should be familiar with sodium, a prominent ingredient in many vegetable-based meat substitutes.

"Marketing strategies tend to play on consumer emotion, such as claiming the product is a healthy alternative and is better for the planet, but they don't tell the whole story," said

Johnson. Ignored, she said, is the fact that cattle spend the majority of their lives consuming forage grown on land unsuitable to cultivation. As ruminants, they are upcyclers that utilize feedstuffs inedible or unpalatable to humans. Cattle have the ability to transform low-quality substances, byproducts and even waste materials into beef and other products of higher quality or increased environmental value.

"Calorie for calorie, serving for serving, beef offers more nutrition than (vegetable-based) meat substitutes," added Johnson. "They've also found it hard to compete with beef for taste. They are getting closer. For consumers with less discerning palates, they may be close enough."

Johnson said promotion of cell-based meat substitutes has often played to consumer concerns about food safety, sometimes using the term "clean meat," implying that real meat is unclean. Since it is developed from animal cells, but without the harvesting of animals, it is also promoted as humane.

The first burger derived

from cultured cells was produced in 2013, at a cost of \$300,000, said Beck, adding the same product can now be produced for \$11. It's still expensive, but the technology is advancing, and the cost will likely decline further.

Protein companies Tyson and Cargill have invested in lab-grown meat and the concept has the support of moneyed activists in Silicon Valley, as well as the Good Food Institute, an activist group that lobbies against animal agriculture. While Beck is skeptical of the announced 2019 market entry of cell-based meat product, it is coming.

"Until the framework for (USDA/FDA) regulatory oversight is finalized, a cell-based 'meat' product can't enter the market," stated Beck, adding that USDA jurisdiction over production and labeling is more favorable for the cattle industry. She noted how the FDA has turned a blind eye to ongoing infractions of labeling regulations pertaining to "imitation" products.

"I'm not sure that agency should be trusted with this new product about to hit the market," Beck added.

Meanwhile, she said,

Nutrition leader ADM and Red Angus team up to assist producers

Archer Daniels Midland Company, a world leader in agricultural processing and food ingredients, and the Red Angus Association of America are combining their expertise to provide Red Angus breeders and commercial bull users with tools for success to improve the breed and the beef industry.

This new relationship affords RAAA members and stakeholders access to nutritional counseling at no expense. Producers can simply call or email designated ADM nutritionists with questions specific to their own operations. ADM will offer answers and perspective targeted to help those producers according to their needs.

The new program is a testament to the dedication of ADM and RAAA to American beef producers. ADM's nutritional experts will work directly with Red Angus producers to help them meet their herd's nutritional goals in order to attain optimal reproduction and growth performance, while supporting first-rate animal health.

"We are very pleased to be working jointly with ADM to offer this new service to RAAA members and Red Angus commercial producers," said Tom Brink, RAAA CEO. "The challenges associated with cow herd nutrition are wide-ranging and complex. Expert information from ADM, a true industry leader in the field, will help our constituents navigate this increasingly technical and important aspect of their operations, leading to greater productivity and improved profitability."

"We are proud to embark on this exciting endeavor with RAAA, its members and commercial producers," stated Chris Hagedorn, ADM ruminant manager. "ADM's philosophy is firmly rooted in delivering nutritional technologies and strate-

gies that advance cattle performance, resource utilization and operational profitability. Our specialists will work side by side with the membership to develop individualized nutrition programs based on complementing existing resources with fundamental nutrition and, when applicable, apply innovative strategies and technologies to enhance

animal health, well being and performance."

RAAA members and commercial Red Angus producers who wish to capitalize on this progressive collaboration may contact ADM cattle nutrition experts at RAAANutrition@adm.com or by calling 866-666-7626 ext. 8. For more information about the partnership, contact Gary Fike at gary@redangus.org.

FARM AUCTION

SATURDAY, MARCH 9, 2019 — 10:00 AM
11103 NW 2400 Road — WILLIAMSBURG, KS 66095
NW Barton & 2400 Rd in Anderson Co. Viewing Friday 3/8 from 9am to 5pm. Complete listing, serial #'s & photos on website.

TRACTORS & RELATED: Case IH 7130 MFWFD, 8.3D, cab, 9850hrs; JD 8650, 4WD duals all round, D, 3pt, 8190eng hrs, new in-frame eng OH; NH TN75 MFWFD, D, ROPS, 3375hrs; JD 2755 w/ JD146 ldr w/joystick, D; JD 4630 w/HFD & Westendorf WL42 ldr w/joystick, D, 11,273hrs. **COMBINE, GRAIN RELATED, PLANTER, SPRAYER, MISC.:** JD 9600 4x4 w/header conv, hydro, dial-a-matic, corn/bean, 5834eng hrs, 3705sep hrs, chaff sprdr, straw chppr; JD 630F hd w/conv; JD 843 8-r corn hd, 2-30' B&B hdr trlr; Conveyair 2950 grain vac; '95 Killbros 475 grain cart; Bradford 6072 & Parker 2000 gravity wagons; Grain-o-vator30 200bu; Feed-R wagon; '14 wagon w/hydr; Hesston 2000-150 silage cutter; blower; Richardson 1200 dump wagon; grain augers-Westfield MK 100-71 10x71, Harvest Int'l 10x32, Westfield 8x31-PTO dr; DMC 548 seed cleaner, elec 8" intake; JD 7000 planter, 16-r, sys w/GPS, full N-T, flex fid, new plates, fingers, caps; '95 Tyler Patriot NT 3241 4x4 sprayer w/60" boom, more; anhydrous app. **CONSTRUCTION, HD TRUCKS, SEMI, TRAILERS:** Case 90TX skid steer, self-level, 84hp, 5530hrs(w/o safety sys); IHC 3964 track hoe; HM track hoe trlr, side load, no title; Cat D69RU dozer, new running; '86 Mack DM, 10sp, 673D inline 6, R-688, twin screw ndm, new rod & main bearings; '74 Mack R-600, 5sp, 673D, R600, twin screw ndm, 73k mi; '85 Cornhusker 42' grain trlr, alum, tarp; '81Transcraft TL-21-45 53' flatbed LB 50T trlr, w/30T winch & ramps; '11 Parker Performance 25' GN flatbed trlr, ramps, DT, 96x25 toolbox; HD flat trlr, pintle hitch; '98 Titan 24' stock trlr; '83 HM 22' stock trlr; 16' flatbed trlr-no title; '83 Home utility trlr. **CAR, TRUCKS, 4-WHEELERS, CAMPER, SCRAP:** '03 VW Jetta wagon, D, 220k mi; '78 Chev C65 2T truck w/16' grain bed w/wd floor, 366eng, 5/2 trans; '02 Chev 2500HD 4x4 club cab, 5.7 G, flatbed; '01 Dodge Ram 1500 4x4 club cab, 5.9 V-8 G, auto, 213k mi; '94 Ford Ranger ext cab, V-6, 2x4, auto, 145k mi; '91 Ford F-350 service truck, 7.3 D, 5sp man, AC/pipeline welder, 137k mi; '91 Ford F-250-parts only; Honda 450 Foreman ES; '89 Kountry Star 5th whl, 36', slide out. **HAY & CATTLE EQUIPMENT, MOWERS, FUEL & WATER TANKS:** 2-Vermeer 605K balers, 1 w/monitor; NH 276 sq baler, wire, shedded; Hesston 1007 disc mower; Vermeer WR-22 10-whl rake, PT; Walton HR9 8-whl rake; IH5000 swather, needs gear box; Viking elevator; pop-up bale loader; port elevator w/mtr for sq bales; NH 520 manure spreader; IH 8610 hay processor; Int'l 105 grinder/mixer; 2 trlr w/10' HM panels; feeders; Bush Hog 3126 10' rotary mower, PT; 5' rot mower, 3pt. **TILLAGE & OTHER EQUIPMENT:** Great Plains Roto 3000 TT Turbo Till, 30', full set/6 wghts (solid sep); Case IH 4800 field cult, 33'6" w/3 bar coil harrow, hydr/fold; Kraus 1418 25' disc; 7-sh V-ripper, 3pt; Glencoe 11' chisel plow; Soil Mover 9' box blade; Buhler/Farm King Y60SD tiller, 3pt; Glencoe 22' field cult, PT w/leveler; Int'l 133 6-r cult, 3pt; 3 plows incl Case 4-btm, JD F154W 4-btm, Ferguson 14A 2-btm; poultry misc; Atlas ETC15 tire machine.

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AUCTION for EILEEN WILSON ESTATE

SATURDAY, MARCH 23, 2019 — 9:30 AM
Auction Location: 627 Market Street — PORTIS, KANSAS

CARS will sell at 12 Noon: NICE 1930 FORD Model A, 2 dr. coupe; NICE 1997 Oldsmobile Regency 4 dr. w/73,615 miles.

FURNITURE, ANTIQUES, PRIMITIVES, COLLECTIBLES inc. Misc. coins; Mayfair blue Depr. glass; cream cans; coal bucket & shovel; windmill blades; Praying Lady; head vase; Candlewick; neck yokes & single trees; chicken waterers & feeders; galvanized buckets; crocks; jars; Lucky Joe Bank; Frankoma dishes; lamps & lamp brackets; stick N ball wall mirror/hat hanger; guitar in case; Grapette banks; Cl lead pots; nice old tags inc.: 1929 KS tag & others; Comic Books (10 & 12 cent, etc.); nice fancywork pillowcase sets; old toys and parts; brass ink well; coffee grinder; cabinet jars; 1912 broad blade bayonet; Waconda Springs

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POTTAWATOMIE COUNTY LAND AUCTION

TUESDAY, MARCH 26, 2019 • 6:30 PM
SALE LOCATION: Iron Clad (427 Lincoln) — WAMEGO, KS

TRACT	DESCRIPTION
TRACT 1:	62.5± acres cropland.
TRACT 2:	23.5± acres of mixed use land (potential building site).
TRACT 3:	63± acres of pasture.
TRACT 4:	220± acres of pasture.
TRACT 5:	Combination of All Tracts 1, 2, 3 & 4.

This property is located Northeast of Louisville. It sets in the Southeast corner of the intersection of Old Farm Road and Ashby Road.
Pasture S15-T9-R-10,
Crop S16-T9-R-10.

SELLER: CARA BRAZZLE

REAL ESTATE TERMS: Property sells AS IS, WHERE IS. 5% non-refundable down payment is required day of sale by check. Buyer must be able to close on or before April 26, 2019. Buyer needs bank letter of loan approval or funds verification. Cost of Owners Title Policy to be split equally between Buyer and Seller. Buyer(s) responsible for contacting appropriate Pottawatomie County offices regarding building regulations. All announcements day of sale take precedence over written materials. Crossroads Real Estate & Auction LLC is representing the Seller.

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JESSICA HOLLENBECK, Listing Agent, 605-890-0895
ANDREW SYLVESTER, Auctioneer, 785-456-4352
TERRI HOLLENBECK, Broker/Owner, 785-223-2947
BILL DISBERGER, Auction Coordinator, 620-921-5642

RESCHEDULED AUCTION

NEW DATE: SATURDAY, MARCH 9, 2019 — 10:00 AM
RESCHEDULED from March 2

Auction will be held at the farm located from Hunter, Ks. 5 miles South on Highway 181 to Union Road, then 2 1/2 miles East to ASH GROVE, KANSAS

<p>STORE CABINETS, FURNITURE, COLLECTIBLES & OTHER 9 glass door sliding tray cabinet; 12' base w/8 drawers & pull out tables; curved side Art Nuevo display; stove ladder w/ rail; large store tables & display case bases; wooden shelves; Wrights sewing notions cabinet; Chiclets gum rack; Santa Fe board; advertising pieces; slate pieces; John Deere pedal tractor; Red Wing crocks 3, 4, 6 gal 3 gal chum; battery jars; NBC TV toy van; copper boiler; wash boards; blue glass jars; Coke & Pepsi cases; fuel cans; oil cans; advertising wooden boxes; cast iron hog oiler; galvanized (buckets, sprinkling cans, chicken feeders, waters, funnels, cans w/lids, minnow buckets); wash tubs; assortment cream separators many unusual, some table top; corn sheller; stainless milk buckets; light shades various shapes; large glass hanging lamp shade; horse harness; advertising yard sticks; thermometers; license tags; butter churn parts; Tyco electric train; nail kegs; egg baskets; grain sifters; grocery cart; milk cans; scooter;</p>	<p>EQUIPMENT, TOOLS, HARDWARE LUMBER Sewing machines asst. inc: new Singer head in crate, treadle, portable; asst. fans; rowing machine; Sears grass seeder; wind charger; pump jacks; gas motors; coal oil stoves; vet equipment; sickle sharpener w/stand; typewriters; adding machines; washing machines inc.: industrial Thorwood interior; air compressors; new Moorman mineral feeder; ironing machines; tools boxes; tarps; electric fences; hand tools; saws; new grinding disks; post drills; chain saws; David Bradley; yard tools; tire & log chains; nails; bolts; nuts; screws; electric supplies; plumbing supplies; vices; 30" buzz saw blade; drill bits; lumber 2x12 to plywood; Workmate center; house hardware, hinges, knobs; portable cement mixer; tractor windshield; down spouts; auto parts; tractor weights; saw horses; block & tackles; ladders; cut off saw; sheet metal brake; drawers & shelves; divided bin shop cabinet; ammo boxes; storage boxes; doors; windows; screens; pulleys; assortment of other items.</p>
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NOTE: This is a large auction with many of each item. There are many unique items. Tony attended many auctions and collected a little of everything! Check our website for pictures at www.thummelauction.com

PHYLLIS & TONY CHENEY ESTATES
Auction Conducted By: **THUMMEL REAL ESTATE & AUCTION LLC**
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The skinny on cow weight maintenance and forage intake, courtesy of OSU animal scientists

Weight gain is almost a national obsession the first few months after the new year, and while humans may be most interested in dropping pounds, cattle breeders are more concerned with helping cows maintain a good body weight at a reasonable cost.

Animal scientists with Oklahoma State University's Division of Agricultural Sciences and Natural Resources have long been paying attention to factors that affect cattle efficiency,

and this past year decided to take a closer look at total calories a cow consumes relative to her calf's weaning weight.

"In this experiment, we set out to determine if we could potentially reduce annual cow maintenance costs with Hereford-sired black baldy cows compared to straight bred Angus cows," said Dave Lalman, Oklahoma Cooperative Extension Service beef cattle specialist with DASNR's department of animal and food sciences.

"While there is substantial older data available on the question of heterosis, there is not much data available on the influence of crossing a breed known for lower feed intake - the Hereford breed - with the popular Angus breed," he said.

First, a bit of background: Considerable research exists indicating that a simple crossbreeding system can result in improved cow longevity and fertility compared to a purebred or straight bred

system. In fact, years of crossbreeding studies conducted at the Meat Animal Research Center showed an average improvement in weaning weight per cow when a simple two-breed rotation was used with bos Taurus breeds such as Hereford and Angus. This advantage is known as heterosis or hybrid vigor.

Another potential benefit of crossbreeding, and one often overlooked, is to select the second breed in the crossbreeding system based on inherent characteristics that might reduce costs or improve income in the operation. The idea of selecting breeds that "complement" one another in this way is known as "breed complementarity" in the animal breeding world.

The OSU researchers broke the study into two phases: Maintenance energy requirements and voluntary feed intake. How well do black baldy cows retain body condition compared to Angus cows? What is the forage intake difference between the black baldy cows and the straight Angus cows?

"As cattle producers know, cow-calf operations need to have pregnant cows that are able to maintain a good body condition through the relatively harsher winter months while also providing needed nutrients to the as-yet-unborn calf inside them," Lalman said.

"If the cows can do that while consuming fewer nutrients, the reduction in input costs provides an advantage in annual cow costs."

The OSU study showed the black baldy cows averaged a better body condition score than the straight Angus cows. In fact, the crossbred cows maintained better body condition throughout both phases of the experiment.

"On average, we measured just under two pounds per day less moderate quality forage intake in the crossbred cows," Lalman said. "On an annual basis, the black baldy cows would be expected to consume about 725 pounds less forage."

And that has led to an interesting consideration for cow-calf producers: Some of the more productive native range in Oklahoma produces about 3,000 pounds of forage per acre. However, studies by rangeland ecologists have led to recommendations that cattle producers should aim for only about 25 percent

consumption of available forage by livestock per acre. Do the math: 25 percent of 3,000 pounds is 750 pounds.

"By using the crossbred female and taking advantage of lower feed intake and maintenance requirements of Hereford cattle in our crossbreeding system, we should be able to increase stocking rate or reduce the number of acres required by about one acre per cow-calf unit," Lalman said.

The OSU animal scientist stressed nobody is saying that raising purebred animals is a bad thing as there are many reasons to do so. However, simple, planned crossbreeding systems using breeds that complement one another can reduce the cost of maintaining a cow herd and increase ranch output through improved longevity and fertility.

"Raising livestock is not, nor has it ever been, a one-size-fits-all solution," Lalman said. "Cow efficiency is one more important feature in the cattle producer's toolbox, relative to the decision-making process."

The Oklahoma Cooperative Extension Service and the statewide Oklahoma Agricultural Experiment Station system are state agencies administered by DASNR, and are key aspects of OSU's state and federally mandated teaching, research and Extension land-grant mission.

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2009 Grasshopper 335	\$6,500
JD 930R	\$9,500

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ON TARGET BULL SALE

HEREFORD • ANGUS
MARCH 16, 2019 • 1 P.M.
MARSHALL CO. FAIRGROUNDS, BLUE RAPIDS, KS

OnTargetBullSale.com

SELLING: 27 Hereford bulls, 10 Hereford heifers, 20 Hereford first-calf heifers, 27 Angus bulls and 9 Angus heifers

Lot 13: ALCOVE HI TECH 822
 19119378
 This bull is the whole package - Top 1% WW, YW and \$B.

Lot 48: SH LEADER F870
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HIGH QUALITY FARM MACHINERY AUCTION
SATURDAY, MARCH 23, 2019 — 12:30 PM • Lunch on Grounds!
 Location: 19455 Spring Creek Road — Westmoreland, Kansas
 From Fostoria, KS on Hwy 16 - take Spring Creek Road 3 miles North (Fostoria, KS is approx. 20 miles North of Manhattan, KS) Along Hwy 16.

COMBINE, HEADERS, FORAGE CHOPPER & PLANTER

2005 John Deere 9660 STS Combine, SN: H09660S711552, 2721 engine hrs., 1751 separator hrs., Green Star ready, Deep tread 800 70R38 tires, straw chopper - shedded - very good shape; John Deere 625 F Hydra Flex 25' Header, SN 1H00625FA90735374, like new; Mauer MFG 25' capacity header trailer; John Deere 693 6-Row Corn Head, SN H00693 X655842, with poly row units - very good; E-Z Trail 680 Header Trailer with adjustable tongue; Model 500 E-Z Trail grain cart, SN: EGC500Z 09940368, very good; 2007 John Deere 7800 Self-Propelled Forage Chopper with Kernel Processor 2962 engine hrs., 2114 separator hrs., SN Z07800X508734 with 900 - 55R 32 good tires and 2011 JD 770 - 10 row rotary head, good shape; 2014 John Deere 640 C 12' hay pickup head for chopper; Trail EZE DHT7049WS Expandable Implement Trailer 46' long with 22' well and hyd. fold down ramp; 2014 Travalong 34' All Steel Grain Trailer with Shur Lok tarp - like new; 400 bushel Parker Gravity Box with extension, hyd. auger and 24,000 lb, 8 bolt wheel gears; 2015 John Deere 1775 NT Max Emerge 5, 12-row planter, SN: 1A01775 WVFM 760244, hyd. drive variable rate seed placement with pneumatic air bag down pressure, central fill seed hoppers, single row shut offs, Martin trash

cab, 800 gal. Poly liquid system, 100' boom, 5-way nozzle bodies, stainless steel chemical inductor, RH fence row nozzles, auto boom, 380/90R46 tires, auto-steer, StarFire 3000, Green Star 2 display, instructor seat, shows 1129 engine hrs., 348.5 pump hrs., VERY GOOD MACHINE, always shedded, bought new, one owner, has never had liquid fertilizer in it; 1066 Farmall diesel tractor with cab & Koyker K-5 loader, TA, 3pt., new diesel pump and radiator, runs good; 1987 Chevy C70 straight truck with 366 motor, 18' heavy steel bed & hoist with 52" sides, 4 spd. with 2 spd. axle, good shape; 1994 Chevy 3500 dually truck with 5 speed manual trans., 4x4 with 3,000 miles on a complete new crate 6.5 diesel motor, good rubber and running boards; 1977 Felps 6'x20' gooseneck 2-horse trailer with living quarters, rough; Shopmade older 2-horse bumper hitch trailer; 2-wheel trailer frame with Onan gas generator; Tulsa heavy duty PTO cable winch (for truck); Braden heavy duty PTO cable winch (for truck); Shopmade flat 2-wheel trailer; Old pickup bed trailer; 50' of 5' tall chain link fence with posts.

TRAVEL TRAILER
 2006 Challenger by Keystone 34' travel trailer with 3 electric slide-outs, can be used as gooseneck or 5th wheel, master bedroom plus 2 bunk beds, bath with shower, gas or electric refrigerator and hot water heater, new battery, 3 air conditioners, lots of storage, full skirting canvas, VIN: 4YDF34T286H407075, good shape

SELLER: STADEL FARMS For more information Please Call Tim Stadel, 785-617-0652
AUCTIONEER'S NOTE: Stadel Farms are changing their farming operation to more livestock and hay, therefore they will be selling these high quality, well-cared-for pieces of equipment. No small items - Please be on time! (This is a partial list only)

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Horse Racing – The Sport of Kings

Since the beginning of recorded history, horse racing was an organized event for all major civilizations. The ancient Greek Olympics had events for chariot and mounted horse racing. The sport was also popular in the ancient Roman Empire.

The thrill of a horse race is one of the most exciting things known to man. The thundering horses racing for the finish line always bring the crowds to their feet cheering on their favorite horse and rider. The exhilaration of horse racing came to be known as “The Sport of Kings.” The added bonus to the sport is the ability to place bets on your favorite horse.

Horse racing is one of the most widely attended spectator sports in America. Horse racing is also a popular sport in Canada, Great Britain, Ireland, the Middle East, South America and Australia.

In the United States, the most popular races consist of Thoroughbred horses racing over flat courses between 3/4 of a mile and 1 1/4 miles. Quarter horse races are also popular and are gaining widespread acceptance along with harness racing.

The Quarter Horse is traditionally a short, stocky horse. They are the dragsters of the horse racing world because they are specialized sprinters. Quarter Horse races are usually about 440 yards or a quarter of a mile; hence the name Quarter Horse.

Horse racing is one of the oldest forms of gambling since man first tamed the horse and trained them to ride. The earliest known races first occurred around 4000 BC when nomadic tribesman of Central Asia domesticated the horse and vied against one another in races across the plains. Today, horse rac-

North American Ag leaders speak at 2019 Ag Outlook Forum

Canadian Agriculture Minister Lawrence MacAulay and Mexican Agriculture secretary Victor Villalobos joined USDA Secretary Sonny Perdue at the 2019 Agriculture Outlook Forum. The agriculture secretaries participated in a joint forum answering questions about the U.S.-Mexico-Canada Agreement (USMCA) and collaborative efforts to advance and protect agricultural production in North America.

The agriculture secretaries emphasized the importance of sharing disease-control protocols, defending the use of biotechnology, ratifying the USMCA and working together to open new and emerging markets. The theme of the forum was “Growing Locally, Selling Globally.”

In the opening presentation, Robert Johansson, USDA chief economist, forecasted beef exports to increase by three billion pounds over the next 10 years. He also expected 2019 to be another record-breaking year of meat production in the U.S.

“Better access to customers in emerging markets in Southeast Asia, Latin America, Africa and the Middle East remains crucially important to expanding U.S. exports,” said Dr. Johansson.

horse became more profitable. The rapid expansion of the sport made it necessary to consider a regulatory board to govern the rules of the sport.

In 1750, interested trainers and owners met in Newmarket, England and formed the Jockey Club. It was an organization that would regulate horse racing in England. The Jockey Club would also regulate the breeding of race horses. In 1791 the *General Stud Book* was published and it traced the pedigree of every race horse in England. By the early 1800's the only horses that were allowed to race on the courses were those that could trace their pedigree to horses listed in the *General Stud Book*. These horses were known as “Thoroughbreds.”

British colonist brought horses and horse racing to the American Colonies. The first racetrack was on Long Island in 1665. Although the sport was popular for some time, organized racing did not become practical until after the Civil War in 1868. An *American Stud Book* was created emulating the *General Stud Book of England*. In the next several decades, betting on racehorses and horse racing itself became extremely popular in the United States. By 1890, there were over 300 tracks operating

across the United States that allowed fans and spectators to place wagers on the races.

Organized horse racing in America without a governing authority led to the domination of many tracks by criminal elements. In 1894, the nation's biggest track and stable owners met in New York to form an American Jockey Club. Modeled after the English Jockey Club, it soon ruled racing with an iron fist and helped eliminate much of the corruption.

In the early 1900s, racing in the United States seemed doomed by anti-gambling sentiment and many states banned bookmaking. By 1908, only 25 tracks remained. Pari-mutuel betting on the Kentucky Derby was introduced that year and it helped create a turnaround for the sport. State legislatures agreed to legalize pari-mutuel betting in exchange for a percentage of the money wagered. It caused more tracks to open. By the end of World War I, prosperity and great horses like Man O' War brought spectators back to

the racetracks and horse racing flourished until World War II.

In the '70s, great horses like Secretariat, Seattle Slew and Affirmed renewed interest in Thoroughbred racing. These three horses each won the Triple Crown which is the Kentucky Derby, Preakness and Belmont Stakes.

Today, horse racing still enjoys popularity as “The Sport of Kings” and the purses have increased, making betting on horse races more lucrative and exciting for enthusiasts of the sport.

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

LAND AUCTION

MONDAY, MARCH 11, 2019 — 10:00 AM
At the FNB Washington basement meeting room,
101 C Street — WASHINGTON, KANSAS

The SW 1/4 29-3-4, Logan Township, Washington County, Kansas
This farm, 160 acres, more or less, is all nearly level to gently sloping cropland, all Crete soils. There are no waterways and no waste. The farm was in soybeans last year, and is all open for spring planting.

The FSA bases and yields are 67.53 acres corn, 96 bushels and 67.53 acres soybeans, 35 bushels. The 2018 taxes were \$3,335.53.

The farm is located between Washington and Greenleaf. The southwest corner of the place is at the intersection of Sunflower Road and 13th Road.

Terms: Ten (10) percent down, the balance due in 30 days. Immediate possession the day of the auction.

Announcements the day of the auction take precedence over previous advertising.

KIGER FARMS, INC.

Land Auction by:

Raymond Bott Realty & Auction
Washington, Kansas
785-325-2734, 747-6888, 747-8017
www.BottRealtyAuction.com

ing is a form of gambling that is legal around the world including the United States.

The origins of modern racing go back to the 12th century in England when the knights returned from the Crusades riding swift Arabian horses. During the centuries that followed the Crusades, Arabian stallions were imported to the British Isles and bred to English mares in efforts to increase the speed and endurance of horses used for racing.

In the 18th Century, horse racing began to be a professional sport. Match racing and multiple horse races began to evolve in which spectators wagered on the winner. Horse racing became so popular that race courses emerged all over England. As the sport gained momentum the purses increased in size attracting the best horses and higher winnings. Breeding and owning race



206.8 ACRES - CLAY CO, KS - This property is perfectly suited for the land investor looking for an immediate ROI. This Clay County farm has been expertly managed and is an excellent income producing tract. The 146.6 tillable acres of highly fertile soil is currently available for spring 2019.

Colin Colley
Agent, Land Specialist
(785) 477-6789

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2015 BEST OPPORTUNITY

LAND AUCTION

SATURDAY, MARCH 30, 2019 — 10:00 AM
American Legion Hall — CUBA, KANSAS

156.61 AC. ± REPUBLIC COUNTY LAND

Legal Description: NE 1/4, S28, T02, R01W, 156.61 taxable acres

Tract Info: (Republic County Appraiser)
• 84.35 Dryland Acres • 68.35 Pasture Acres • 3.91 Waterway Acres

FSA Details: (20.08 DCP Acres not in cropland)
• 111.63 DCP Cropland Acres

• 79.6 Total Base Acres with 30.24 Wheat, 26.82 Corn, 22.54 Soybeans

• All enrolled in ARC County

Tax Information: 2018 Property Tax = \$1975.31

• Buyer to receive full possession at closing

• Access granted to buyer for wheat crop or preparation for spring planting upon signing contract and paying escrow deposit.

Property Location: From the intersection of US 36 & 260th Road (Cuba Corner) go North 3 miles, East 1.5 miles on Lincoln Rd. Property is located on the South side of Lincoln road.

Listing Broker's Notes: Agricultural Producers & Investors... This property has a good balance of Cropland and Pasture. The soil types on the cropland are conducive to above average crop production. The pasture has a large pond for stock water and recreational use. A large portion of the pasture could be converted to crop production. This tract has all kinds of potential! With aggressive renters in the area looking to add additional lease acres this would make a GOOD investment property. DON'T miss this INCREDIBLE opportunity to add this tract to your operation or investment portfolio. Contact me with questions you have regarding this GREAT Republic County Kansas property.

Jeff Dankenbring, Listing Broker - Cell: 785.562.8386 or Email: Jeff@MidwestLandandHome.com

Terms & Possession: 10% down day of the sale, balance due at closing on or before May 15, 2019. Sellers to pay 2018 taxes. Title insurance, escrow & closing costs to be split equally between buyer and seller. Buyer takes possession at closing. (Including wheat) Property to be sold as-is, where-is. All inspections should be made prior to the day of the sale. This is a cash sale and is not subject to financing, have your financing arrangements made prior to auction. Midwest Land and Home is acting as a Seller's Agent and represents the seller's interest. All information has come from reliable sources; however, potential buyers are encouraged to verify all information independently. Statements made the day of sale take precedence over all other printed materials

BARBARA A. FISHER TRUST, SELLER

For a VIRTUAL TOUR of this property visit www.MidwestLandandHome.com

To stay up to date on auctions and listings LIKE our Facebook page [Midwest Land and Home](https://www.facebook.com/MidwestLandandHome).

Midwest Land and Home

Jeff Dankenbring - Listing Broker - 785.562.8386
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3 miles north and 2 1/2 west of Zenda, KS or 9 miles west, 9 miles south and 2 1/2 west of Kingman, KS

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<p>Molitor 165 Payweight 488-358 Reg # 19316990 Sire: Muller Payweight 2075-792 MGS: SS Star Fatty 221 CED +1.80, BW +1.90, WW +110, YW +110, HC +10, DMI +17, SF +162, BB +148, BS</p>	<p>Molitor Chaps 627-1258 Reg # 19317048 Sire: Yangan Chaps 4095 MGS: Basin Payweight 1682 CED +1.80, BW +1.80, WW +110, YW +110, HC +10, DMI +17, SF +162, BB +148, BS</p>	<p>Molitor Cowboy Up 414-1068 Reg # 19317033 Sire: HA Cowboy Up 3420 MGS: SP Complement 6088 CED +1.80, BW +1.80, WW +110, YW +110, HC +10, DMI +17, SF +162, BB +148, BS</p>	<p>Molitor Whitlock 3006-1188 Reg # 19317043 Sire: A Whitlock 179 MGS: LD Excellence 888 CED +1.80, BW +1.80, WW +110, YW +110, HC +10, DMI +17, SF +162, BB +148, BS</p>
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Main Service Sires
Molitor Payweight 3015-165 - 14 sons
Elliottson Chaps 4095 - 9 sons
A Whitlock 179 - 9 sons
Baldridge Compass 0241 - 11 sons
HA Cowboy Up 3420 - 8 sons
HA Outside 2875 - 8 sons
Basin Advance 2134 - 7 sons
DAR Pay Upgrade 0917 - 9 sons
Molitor KU Solution 9726-074 - 12 sons
HARB Playboy 581-2H - 9 sons
SVF Calvary 8323 - 6 sons
HCC Pay Raise 4888 - 2 sons
SA Lucy Special Focus 488 - 5 sons
SAV Renegade 1641 - 3 sons
McCall Quick Impression 2050 - 3 sons

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By Kasey Brown
Change is the new constant. This isn't a new concept. Yet in the cattle industry, there are plenty of traditions that survive throughout the years — like passion for cattle and the rural lifestyle. Dusty Abney adds that being frugal but not cheap, and focusing on animal welfare, husbandry and profitability are traditions to keep. However, he told attendees of the 26th Cattlemen's College® in New Orleans, La., hosted in conjunction with the Cattle Industry Convention & NCBA Trade Show, that there are plenty of traditions to break.

Be uncomfortable with the status quo, said the cow-calf nutritionist with Cargill. Don't think pessi-

mistically about your supplementation budget, because it is necessary. Don't assume your program is fine. And don't view your forage base, cows' needs or supplementation program as static.

Reproduction is the most important aspect to a cow-calf operation. Essentially, to stay within a yearly calving interval, a cow has 21-25 days to come back into estrus, and a cattleman has two chances to get her bred. Nutrition plays a major role in achieving that. Abney noted the difference between calories versus protein. Protein supports caloric intake, but it won't overcome a major caloric deficit.

"Just because there

is 'plenty to eat' doesn't mean a cow has access to enough calories. There is a difference in intake versus energy density," he explained. "Intake drives the bus."

Intake drops with low-quality forages because the cow fills up and can't eat more to get more calories. So, if a cow is eating low-quality forages, she needs to still be able to meet her own and her calf's needs.

"Fetal programming research is confirming what we already know — taking care of a cow pays dividends for the lifetime of her progeny," Abney noted.

It has been common thought that a cow's second trimester had the

least nutrition requirements. However, he added, a calf gains 70% of its final weight in the third trimester, essentially adding about 50 pounds of calf in those last three months. If a cow hasn't been getting enough calories, then those pounds for the calf are going to come from her.

"This is not an excuse to rough that cow through her third trimester to try to get lower birth weights," he emphasized. "Bull selection is the No. 1 cause of lighter birth weights. Five weeks before birth, that cow starts making colostrum, which will affect that calf's immune system for 21 days. Plus, she'll soon be in peak lactation and have 65-70 days of high demands on her body. We

need to position her for success."

The other tradition to change is to make sure your calving season is in sync with your environment. He shared the nutritional requirements of a September-calving cow in the South means grass was at its highest quality during the early second trimester and lowest during peak lactation.

"You can be out of sync with your environment," Abney noted, "but only if there is a compelling economic result to justify feeding her through this."

Keep records and make changes because of those records. Operation goals should change realistically with how the year is progressing. He posed several questions to help cattle-

men think out of the box, and said the answer, "because we've always done it this way," is not an acceptable response. Why don't you buy mineral? Why do you wean calves when you do? What if you weaned earlier? Could stress be reduced? What are the costs of illness?

He offered some new traditions to start. A constant search for improvement is necessary in such a volatile industry. Seek advice from experts before problems start. Focus on the cow's whole year, and understand value vs. cost. Be open-minded.

"What if?" is the most powerful two-word question you can ask," he concluded. "Improvement is the best tradition."

REAL ESTATE & PERSONAL PROPERTY AUCTION

SATURDAY, MARCH 16, 2019 — 10:00 AM

500 Tabor Valley Road — MANHATTAN, KANSAS 66502

1/2 mile north on Tabor Valley Rd in Zeandale, east side of the road

REAL ESTATE SELLS AT NOON followed by Tractors & Implements at 1 PM

500 Tabor Valley Rd, Manhattan, KS 66502: Wonderful property centrally located in Zeandale. 15 minute drive to Wamego or Manhattan. **FEATURES:** • 3 bed, 3.5 bath • 3,742 sq. ft. ranch home • 1 Acre • Garage/outbuildings. Property sells as-is, where-is, requires \$2,500 in non-refundable earnest money on the day of the sale, must close in 45 days or less. Buyer must do all inspections prior to sale, and have written loan pre-qualification or proof of funds on day of sale. All announcements on the day of the sale take precedence over advertising. **Foundation Realty represents the seller as a Seller's agent. Call Morgan to schedule a viewing: 785-458-9259.**

TRACTORS & IMPLEMENTS: • Farmall M (wide front); Ford 9N; Yanmar 155D Garden Tractor with loader and bucket; Dixon Lawn Mower; Spring Tooth; 3-point blade; 3-point disc; Rotary Mower; Harrow; Mist Blower; Allis Chalmers Tractor (parts/iron); Cement Mixer (belt drive).

ASSORTED HARDWOODS: Milled & rough cut furniture hardwoods great for your next project. Visit website for pictures. **Call Morgan for details. APPLIANCES:** Whirlpool refrig. freezer; Frigidaire upright freezer; Frigidaire refig. freezer; Maytag 12 cycle washing machine; Sensor microwave oven; Kirby vacuums. **TOOLS:** T-posts; water tank; wheelbarrow; misc. hand tools (rakes, shovels, axes, etc.); Handyman jack; Craftsman tool chest; handsaws; 2 man saws; tinsnips; pry-bar; bolt cutters; hammers; carpenter's square; clevises; Powerkraf AC arc welder, leads, & tools; hand cart; Speedaire air compressor; Craftsman air compressor; bench grinder; wrenches; screwdrivers; pliers; metal shelving units; wooden work bench; shopvac; nuts, bolts, fasteners; Penncraft lathe; lathing tools; table saw; Craftsman radial arm saw; AMT oscillating spindle sander; DELTA skill saw; DELTA belt sander; Coleman Powermate PM3500 generator; parts washing stand; bar clamps; multiple weights of oil & fluids; bolt bins & organizers; log chains; propane bottles; block & tackle; vise mounted on iron stand (heavy built). **KITCHEN & GLASSWARE, FURNITURE:** dining room chairs; table +5 chairs; handmade china cabinet; solid buffet; tri fold changing blind; 4 oak chairs; dresser w/mirror; wall mounted headboard & mirror; dressers; air purifier; wood credenza; sleeper sofa (very clean); piano stool; camping chairs; pie cabinets (great projects) & More!

ANTIQUES, TOYS: Iron bed frames; 2 oil lamps; glass figurines; religious prints; framed pictures/prints; Birds of America book & egg collection; Fisher Price Happy Hoppers toy; wooden alphabet blocks; handmade wooden trains; Hot Wheels cars/misc. toy cars; plastic cowboys & indians; wooden blocks; Legos; plastic horses; brown jug; collectible model cars; wooden alligator toy projects; wooden mooses; wooden gumball machine; stagecoach/covered wagon models.

For questions call: **MORGAN RIAT, REALTOR/AUCTIONEER** 785-458-9259 or email: morgan@foundationks.com

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SELLER: DARREL & DOROTHEA BOUTZ

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"Purple gut" in calves can cause fatalities overnight

Enterotoxemia, also called "overeating disease" or "purple gut," can cause the death of a young calf in as few as 12 hours, with signs that are not detectable until it is often too late. One reason the disease is so devastating is that it can strike in an otherwise apparently healthy, well-managed herd.

"Preventing enterotoxemia from occurring is important, because often the first clinical sign is acute death of the calf," stressed Dr. D.L. Step, professional services veterinarian, Boehringer Ingelheim. "In fact, the bacterium that causes the disease, Clostridium perfringens, is ever-present in the environment and the digestive tract of calves. The bacteria, C. perfringens Type C in nursing-age calves, may proliferate and become toxic when a calf's nutritional intake is

inconsistent, and the calf consumes too much of its mother's milk. In that case, the bacteria can multiply rapidly, produce toxins and kill a calf overnight."

A calf with enterotoxemia may appear and act healthy, then develop a distended abdomen, scours, or exhibit signs of abdominal pain such as throwing itself on the ground, and kicking at its belly. Weakness progresses, as body temperature and blood pressure drop, gums become pale and extremities grow cold. If the disease is not identified and treated quickly, the calf will slip into a coma and die.

"We often see this happen when calves are away from their mothers and do not nurse regularly," said Dr. Step. "Beef calves normally nurse five to six times per day, or sometimes more. When we temporarily change that pattern for any reason, reducing their intake, and then allow them to eat 'regularly' again, the calves tend to overeat. This often happens when cattle are

moved, get out unexpectedly or inclement weather events alter routine feeding intervals. When calves consume too much milk, the normal balance in the digestive tract can become altered, allowing the bacteria to multiply then produce toxins and gas."

In order to reduce the risk of fatalities from overeating disease, Dr. Step recommended monitoring calves often, especially during inclement weather events, when feeding patterns might change. "Work with your veterinarian to develop a protocol that includes identification of clinical signs and swift treatment for the calf," he said.

"Preventively, we need to consider how long calves are separated from their dams, and how often those calves are able to nurse," he continued. "If you're able to work out a schedule in which the calves are allowed to nurse several times per day, you can minimize the effects of the disease."

Vaccination is another preventive measure that reduces risk. "If your herd has problems with enterotoxemia, consult with a veterinarian on how to incorporate a proven, clostridial vaccine into your herd's protocols," Dr. Step advised. "Dams can also be vaccinated at pregnancy check to help improve colostrum and get the calf off to a strong start."

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Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Report from February 27th, 2019

STEERS			
7	489	189.00	3 445 155.00
6	548	184.00	17 569 145.50
17	568	172.25	5 647 135.00
5	620	161.50	3 682 129.50
8	683	152.50	8 708 129.00
9	711	145.00	25 762 128.50
16	745	138.00	8 787 125.50
11	843	135.75	3 873 125.00
8	880	135.00	11 806 124.00
63	877	134.85	7 854 123.50
31	900	134.50	
22	930	134.25	
15	969	130.00	
7	1015	129.75	
HEIFERS			
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\$83.50 @ 2,225 lbs.

CONSIGNMENTS FOR MARCH 6

70 mix str..... 800-875 lbs
65 blk str..... 900-950 lbs

CONSIGNMENTS FOR MARCH 13

70 blk x str & hfrs..... 650-800 lbs
130 Ang x str & hfrs..... 600-850 lbs

FRIDAY, MARCH 29 • 6:00 PM

Kansas Angus Influence Female Sale

If you need assistance in marketing your cattle please call & we will be happy to discuss it with you.

CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

Report from February 26th, 2019

STEERS			
2	388	171.00	6 811 126.25
14	531	168.50	10 776 125.50
5	603	163.50	6 895 122.00
11	680	142.50	5 934 119.50
15	825	135.75	
7	856	134.00	
5	917	130.00	
7	1011	120.50	
HEIFERS			
3	503	145.00	
4	568	142.00	
3	587	136.00	
6	658	133.50	

TOP BUTCHER COW:

\$71.00 @ 1,745 LBS.

TOP BUTCHER BULL:

\$71.50 @ 1,755 LBS.

BRED COWS:

\$650-\$700

PAIRS:

\$1,175-\$1,475

Lighter run due to weekend storm that hit before the sale. 2 big consignments cancelled and are scheduled for the following Tuesday sale.

JUNCTION CITY, KANSAS • Barn Phone 785-238-1471

Seth Lauer 785-949-2285, Abilene

Clay Center, Ks • Barn Phone 785-632-5566

Clay Center Field Representatives:

Tom Koch, 785-243-5124

Lance Lagasse, 785-262-1185

KARL LANGVARDT

Cell: 785-499-2945

MITCH LANGVARDT

Cell: 785-761-5814

LYNN LANGVARDT

Cell: 785-761-5813



THANK YOU FOR ALL OF YOUR CONTINUED SUPPORT! YOUR BUSINESS IS ALWAYS APPRECIATED!

For Cattle Appraisals Call:

BRODY PEAK, 620-343-5107 GLENN UNRUH, 620-341-0607

LYLE WILLIAMS, Field Representative, 785-229-5457

WIBW 580 - 6:45 A.M. Thurs; KVOE 1400 - 6:30-6:45 A.M. Thurs. & Fri.

To see more consignments go to: emporialivestock.com

Power to Do More photo contest accepting entries, offers \$10,000 grand prize

Corteva Agriscience™, Agriculture Division of DowDuPont, encourages corn farmers to again show the world photos of their powerful inspirations as part of the 2019 Power to

Do More contest. The contest, sponsored by the corn herbicides portfolio of Corteva Agriscience, honors farmers and their commitment to their communities. Corn

farmers can enter the contest by visiting PowerToDoMore.com by April 28, 2019, for a chance to win the grand prize of \$10,000 for a local nonprofit of choice or two second place prizes of \$5,000 for their selected nonprofits.

"Farmers are often the bedrock of small communities throughout the U.S. Many invest their time and effort working with local organizations," said Lynd-

sie Kaehler, U.S. Corn Herbicides product manager, Corteva Agriscience. "The Power to Do More contest recognizes farmers not only for what they produce in their fields, but also for their exceptional commitment to the communities in which they farm. It's been inspiring to hear the stories of past contest entrants and we are excited to meet more powerful farmers through this year's contest."

The 2018 Power to Do More contest winners —

the Schroeders from Iowa, the Krauses from Minnesota and the Gutterys from Kansas — supported local FFA chapters and a county community foundation. Their stories are featured in three short videos that show their dedication to farming.

Photo entries may include fields, family, friends, pets, equipment — whatever means the most to the entrant. Up to ten finalists will be selected for community voting. The finalists with the most votes

by July 8 will win. Follow along on social media at #PowerOverWeeds.

Corteva Agriscience is proud to support farmers with a lineup of corn herbicides dedicated to delivering the power to do more every season: With Resicore®, SureStart® II, DuPont™ Realm® Q, DuPont™ Cinch® ATZ and Keystone® NXT herbicides, farmers can effectively control and spend less time worrying about unwanted, yield-robbing weeds.

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Sunflower genetics
Friday - March 15th - 1 PM @ The Ranch

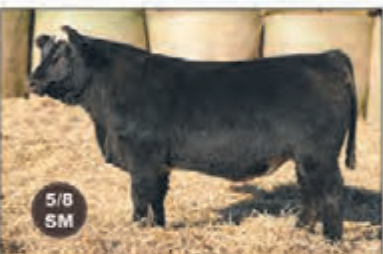
23rd Annual Production Sale | Selling 100 Bulls & 70 Heifers



SFG F820 :: ASA# 3520594 :: S-Cowboy Logic
CE 35% • WW 1% • API 4% • TI 1%



SFG F803 :: ASA# 3520573 :: S-Nightride
CE 15% • WW 10% • API 4% • TI 1%



SFG F806 :: ASA# 3520570 :: S-Nightride
CE 10% • WW 15% • API 4% • TI 2%



SFG F830 :: ASA# 3520532 :: S-Nightride
CE 30% • WW 10% • API 10% • TI 2%



SFG 889F :: AAA# 19336472 :: S-Insight
CED 55% • WW 20% • \$W 15% • \$B 20%



SFG 7305E :: AAA# 19267805 :: S-Bank Note
CED 35% • WW 25% • \$W 25% • \$B 40%



SFG F868 :: ASA# 3520459 :: S-Cowboy Logic
CE 30% • WW 1% • API 25% • TI 10%



SFG F10 :: ASA# 3520416 :: S-Global
CE 20% • WW 25% • API 15% • TI 10%

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100 Bulls Selling
60 Angus & 40 Charolais
Saturday, March 30, 2019
12:00 p.m.
Randolph, Kansas
FREE DELIVERY IN U.S.; 3-YEAR GUARANTEE FEET & SEMEN; DNA; GROUPS OF FULL BROTHERS
For more information, contact Fink Beef Genetics:
email finkbull1@twinvalley.net or see live discussions at: finkbeefgenetics.com
Galen Fink: 785.532.9936 Barrett Broadie: 620.635.6128 Gene Barrett: 785.224.8509
Auctioneers: Kyle Elwood: 785.493.2901 & Ethan Schutte: 785.541.1027
Bulls will not be clipped or groomed... you get what you see!
Videos of bulls available after March 15.

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Friday, Saturday & Monday
8 AM to 6 PM
Sunday 1 PM to 7 PM
www.yutzyconstruction.com

Sell At St. Marys

Sell Or Buy Cattle By Auction STARTING TIME 10:30 AM Tuesdays

We sold 1658 cattle February 26. Steer and heifer calves were in good demand at higher prices. Feeder steers and heifers sold steady to \$3.00 higher. Cows and bulls were steady.

STEER & BULL CALVES		HEIFER CALVES	
8 blk/bwf str	470 @ 196.00	24 blk/bwf hfrs	495 @ 154.50
1 blk str	380 @ 189.00	4 blk hfrs	464 @ 153.00
5 blk str	527 @ 188.50	5 blk/bwf hfrs	335 @ 150.00
2 blk str	498 @ 178.00	2 blk hfrs	363 @ 150.00
1 blk str	435 @ 175.00	2 blk hfrs	335 @ 149.00
1 blk bull	510 @ 175.00	4 blk hfrs	351 @ 148.00
1 blk str	485 @ 171.00	4 blk hfrs	488 @ 146.00
1 char str	425 @ 170.00	3 blk hfrs	447 @ 145.00
10 blk/char bulls	539 @ 164.00	8 blk/char hfrs	508 @ 144.50
4 char/red str	540 @ 161.00	6 blk/bwf hfrs	530 @ 143.00
2 blk str/bulls	523 @ 161.00	3 red hfrs	425 @ 138.00
		3 blk/sim hfrs	547 @ 137.50
		4 blk hfrs	549 @ 135.00
STOCKER & FEEDER STEERS		STOCKER & FEEDER HEIFERS	
22 blk str	599 @ 174.25	16 blk/bwf hfrs	633 @ 139.50
13 blk/bwf str	588 @ 170.00	36 blk hfrs	682 @ 138.25
10 blk str	597 @ 169.00	21 blk/red hfrs	716 @ 138.25
2 blk str	585 @ 169.00	3 blk hfrs	600 @ 137.00
6 blk/bwf str	606 @ 165.00	3 blk hfrs	555 @ 136.00
5 blk str	610 @ 162.00	2 blk hfrs	565 @ 136.00
9 blk str	645 @ 157.00	2 sim hfrs	573 @ 136.00
10 blk/bwf str	592 @ 156.50	7 red hfrs	649 @ 135.50
5 blk/sim str	661 @ 155.00	70 blk/bwf hfrs	783 @ 132.85
34 blk/bwf str	710 @ 153.60	9 blk/bwf hfrs	719 @ 132.75
30 blk str	706 @ 153.50	5 blk hfrs	609 @ 132.50
2 blk str	623 @ 153.00	31 blk/red hfrs	692 @ 132.50
4 blk str	599 @ 152.00	19 blk hfrs	765 @ 131.50
3 blk/bwf str	620 @ 150.50	39 blk hfrs	777 @ 131.25
3 red str	605 @ 150.00		

COWS		BULLS	
1 bwf cow	1310 @ 69.00	1 red bull	1755 @ 78.00
1 red cow	1130 @ 68.00	1 blk bull	1875 @ 75.00
1 blk cow	955 @ 67.50		
1 blk cow	1115 @ 67.00		
1 gelb cow	1780 @ 64.00		
1 bwf cow	1130 @ 63.50		
1 blk cow	1445 @ 63.00		
1 blk cow	1205 @ 62.50		
1 blk cow	1470 @ 62.00		
2 wf cows	1243 @ 61.50		
1 gelb cow	1655 @ 60.50		
1 bwf cow	1865 @ 60.00		
1 blk cow	1575 @ 59.00		
1 blk cow	1245 @ 58.50		
1 blk cow	1510 @ 58.00		
1 bwf cow	1720 @ 57.50		
1 bwf cow	1375 @ 57.00		
1 bwf cow	1245 @ 56.50		
1 blk cow	1405 @ 56.00		
1 blk cow	1445 @ 55.50		
1 blk cow	1385 @ 55.00		
1 blk cow	1085 @ 54.50		
1 blk cow	1160 @ 54.00		
1 blk cow	1630 @ 53.50		
1 wf cow	915 @ 52.50		
1 blk cow	960 @ 51.00		

CONSIGNMENTS FOR MARCH 5:

- 135 Angus steers & heifers, 500-650 lbs., 90 days weaned, vaccinated, hay fed
- 80 Hereford bulls & heifers, 500-700 lbs.
- 95 black steers & heifers, 450-550 lbs., weaned, vacc.
- 140 Angus/Charolais steers & heifers, 700-850 lbs., homeraised
- 65 black heifers, 650-675 lbs.
- 130 black heifers, 750-775 lbs.
- 60 black Charolais steers, 850-875 lbs.
- 61 black crossbred steers, 900-925 lbs.
- 125 black str, 800-850 lbs., homeraised

WATCH OUR AUCTIONS LIVE ON DVAuctions.com

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:
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DENNIS REZAC ST. MARYS, 785-437-6349 LYNN REZAC ST. MARYS, 785-456-4943
DENNIS' CELL PHONE 785-456-4187 REX ARB MELVERN, 785-224-6765
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Toll Free Number.....1-800-531-1676
Website: www.rezaclivestock.com
AUCTIONEERS: DENNIS REZAC & REX ARB
Rezac Livestock Commission Company, Inc. St. Marys, Ks.