

Schwieterman Market Outlook

A marketing commentary by Bret Crotts

Last week was filled with volatile, choppy action in the grain markets. Ideas that the forecasts were moderating and that Ukraine would be shipping large quantities of grain out of the Black Sea helped to put pressure on the markets. Nancy Pelosi's trip to Taiwan made traders worried about another trade war with China, or an invasion of Taiwan, that would disrupt world trade. It didn't help that crop condition ratings were better than expected with the corn unchanged at 61% Good to Excellent and the soybeans up 1 point at 60% Good to Excellent and that crude oil spent the

week under pressure. Things took a turn for the better last Thursday,

partly because the forecasts really don't look that great, and since it has been a dry week in the western Corn Belt, there is a good chance that crop condition ratings decline. It also helped that traders began to realize that it is still going to be very difficult to ship large quantities of grain out of Ukraine. and Pelosi's trip to Taiwan didn't start another war, so everyone is more relaxed about that.

On the charts, the December corn is hinting at making an unusual July low. The market needs to at least clear the July 29th high of \$6.36 ½, and it would be better to clear the July 11th high of \$6.58 ½, in order to confirm a long-term low. It will all depend on the weather, and how traders react to the August supply and demand report that comes out the 12th. There is the potential for numerous changes, including adjustments to both acreage and yield, as well as all the demand estimates.

Wheat is still stuck in a sideways pattern. We see some signs of strength every now and then, but it doesn't last long. Last week's export sales numbers weren't great, but that is the exception and not the rule. However, we will need to see better demand to encourage speculative buying because there are still fears of shortages. If we don't see big exports, we are going to have to see consistent gains in the

corn to force wheat into the feed rations. Until we see a close above \$9.21 ½ in the December KW, there isn't much reason to do anything besides trade the range in the wheat market.

Last Thursday's jump in the beans was encouraging, but the failure to build on those gains Friday won't give the bulls any confidence. The November soybeans really need to take out the July 29th high of \$14.89 to put the bulls in control. That is definitely possible with the right combination of weather, demand, and USDA report numbers. It just doesn't take much to turn the soybean fundamentals from friendly to extremely bullish, so it could be very volatile again this week.

The cattle futures had a good week. We saw numerous multi-month highs in the live cattle and solid gains in the feeders. Deferred live cattle continue to benefit from long term optimism that is created in part by the extremely high cow and heifer slaughter. Grass & Grain, August 9, 2022 It is going to be hard to build back the cow herd, so fed cattle numbers, and beef production are likely to be lower in 2023. Several of the 2023 contracts made new highs last week and it is likely that the February and April will do the same very soon. *Grass & Grain, August 9, 2022 nication, are an ex ing decisi ning decisi nication, are an ex ing decisi nication,*

We can probably plan on new contract highs in the October feeders as well, especially if the corn struggles at all. If the 2023 live cattle contracts keep making new highs, the feeders won't be held back for long.

Schwieterman, Inc. is a full service commodity brokerage firm. If you would like more information on commodity markets or our brokerage services, contact Bret Crotts at 800-272-9131, www.upthelimit.com or bret@swbell.net

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ServiTech makes recommendations regarding drought conditions

Areas of the country are in a severe drought, with conditions so extreme some growers are taking their soil conditions day by day. ServiTech, the nation's leading independent crop consulting and agriculture lab, is making a prediction growers should lean in to hear.

In a cyclical pattern that comes with extreme drought, ServiTech expects to work with its grower customers to manage a uniquely high level of nitrates in the soil as well as potentially lower pH levels.

ServiTech's Senior Lab Agronomist Fred Vocasek said it may be to a grower's advantage to help blunt the effects of severely dry conditions with zone-specific soil tests to help make nitrogen management decisions.

"Drought conditions have been present for an extended time in many areas and with that drought comes a cyclical effect to soil microbial activity," Vocasek said. "Optimum soil temperature is between 60 and 95 degrees for microbial activity. When we accumulate more heat units faster and for a longer time, which is what happens during drought, microbes in the soil work longer and harder to decompose organic matter. This results in more nitrate accumulation."

Vocasek says in 2011, a record-setting year for agriculture, the drought line broke at Interstate 70 in Kansas and Colorado. ServiTech compared the soil test nitrates received that summer, south versus north of I-70 in the area including the panhandles of Oklahoma, western Kansas and eastern Colorado.

"The droughted area to the south had soil test nitrate levels roughly double those of the northern part of this area," Vocasek says. "Soil nitrate tests showed about 15 to 25 pounds of nitrogen per acre more in the droughted southern area than the northern area. That's easily worth \$10 to \$15 per acre as nitrogen fertilizer. Fifteen bucks, an acre's worth of nitrogen, will pay for a soil test, so the ROI is a lot better than Wall Street."

Vocasek said a lack of rain also keeps nitrate from being moved into the subsoil, which means surface nitrate accumulations may be higher than normal. Accumulations of 50 to 100 pounds of nitrate per acre may not be unusual even in dryland fields that did not receive fertilizer nitrogen.

Since 1975, ServiTech has worked with customers to test their soil and hone in on variability between zones in the field. The company has shared a message of high soil nitrate levels due to drought in the past and growers should realize the soil test numbers are real and dependable. This season, nitrate variability across drought stressed fields may be more than expected, so soil sample sampling smaller zones can help make solid nutrient management decisions.

While elevated soil nitrates during extreme drought aren't unusual, Vocasek said that ServiTech agronomists have often noted lower soil pH values. Soil pH can be as much as 0.4 to 0.5 units lower after a season of prolonged drought compared to years with normal rainfall.

"The drought of 2011 set records in many areas where depression of soil test pH was common," Vocasek said. "Soil tests often return to more normal levels when rainfall resumes, so growers shouldn't panic. ServiTech offers a Sikora-2 method for measuring soil pH, which can more accurately reflect soil pH in sandy and drought-affected soils."

Vocasek said the key is for growers to make sure they

are tracking soil pH to see if soil acidity is increasing, which is a potential problem for wheat in areas that have not been affected in the past.

"In summer 2011, there were places in west Texas where soil pH was 0.7 to 0.8 units lower than normal," Vocasek said. "The depression of soil pH is due to natural changes occurring as soil dries down during long-term drought."

For more information contact your ServiTech agronomist at (800) 557-7509.





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We had anot	her high humid h	ot temperature	Alma	4 blk	453@191.00	Washington	1 Cross	885@72.00	Americus	88 blk	2	8	@1875.00
day for our	sale held on Fri	day, August 5.	Riley	11 blk	406@188.00	Manhattan	1 blk	1175@69.00	Randolph	12 blk	3-4	8	@1825.00
The light calv	es sold at mostly	v steady prices.	Manhattan	7 Char	484@182.00	Oakland, NE	1 Hols	1225@65.00	Randolph	13 blk	3-4	7-8	@1810.00
Weaned stoc	ker steers sold	at fully steady	Alma	5 blk	487@178.00	BUL	LS — 1,575-2,4	00 LBS.	Randolph	12 blk	3-5	7-8	@1725.00
to strong pri	ces while the he	avy unweaned	Alma	7 blk	507@173.00	Frankfort	1 blk	1860@126.50					
calves sold o	on an unevenly s	teady to spots	Alma	8 blk	540@172.00	Frankfort	1 blk	1780@125.00		COW CA	LF PA	IRS	
weaker mark	et. Cull cows and	d bulls sold \$5				Blue Rapids	1 Char	1760@124.00			Α	GE	
	ially on the high		HEIFER	RS — 550-775	5 LBS.	Paxico	1 Cross	1880@121.50	Randolph	2 blk			@1810.00
Several Fall b	red heifers and Fa	all calving cows	Manhattan	34 Char	613@182.25	Paxico	1 Cross	1575@119.00	White City	4 Cros	S		@1425.00
were offered a	and they were find	ding good inter-	Alma	11 blk	573@181.00	Frankfort	1 Herf	2060@117.00					
est according	ı to quality, size, a	nd disposition.	Alma	27 blk	550@179.50	Paxico	1 Cross	1605@115.00		BABY (CALVE	S	
			Washington	6 blk	731@177.00	Junction City	1 Herf	2395@110.00	7	Hols & Xbre	ed	@	250-100.00
STEER	CALVES - 400-	550 LBS.	Alma	44 blk	666@176.50		BRED COWS	5	10	blk & Xbred		@1	00-150.00
Topeka	5 Cross	405@225.00	Alma	4 blk	566@176.00		AGE	BRED	4	blk & Xbred		@2	250-300.00
Rlley	16 blk	431@225.00	Manhattan	13 Char	696@175.50	Spring Hill	20 blk 2	7-8 @2160.00	4	blk & Xbred			300-350.00
Topeka	6 blk	450@210.00	Alma	8 blk	758@165.50	Spring HIII	10 blk 2	7-8 @2150.00	2	Xbred		@3	350-400.00
Alma	4 blk	538@201.00	Alma	12 blk	661@163.00	Spring HIII	9 blk 2	7-8 @2050.00	1	blk		-	100-450.00
Alma	8 blk	529@199.50	Alma	4 Cross	660@135.00	Alma	14 Rd Ang 3	7-8 @1960.00	2	blk		@5	500-550.00
Riley	29 blk	538@192.50				Americus	11 blk 2	8 @1900.00					
STEERS — 575-975 LBS.				ERETTES — 82	· · · ·		VCON	SIGNM	ENTC				40
White City	15 blk	602@202.00	Americus	2 blk	942@147.00	CARL				_	A	UU	
Ottawa	27 blk	663@196.25	Washington	1 blk	845@135.00			LLING AROU					
Manhattan	20 Cross	630@196.00	Americus	1 blk	985@133.00		blk 3-6 yr Fall	calving cows bred	to SimAngus	s bulls due to	o calve	e late	
Manhattan	27 Char	727@188.00	Washington	1 blk	98@125.00	Aug Oct.							
White City	21 Cross	700@188.00	Alma	1 blk	920@100.00			ig cows, 3 yr old to	short & solid	, bred to Lafl	in Ang	bulls	A 11
Alma	20 blk	598@187.00	Manhattan	1 blk	1180@97.00	due Aug. 31	, 60 day calving	period.					
Ottawa	16 blk	731@186.50	Topeka	1 blk	1690@94.50	• 25 choice b	Ik bwf mostly str	s, few hfrs, weaned	l, 550-700#				
Alma	23 blk	665@183.50	Alma	1 blk	1615@92.00	• 70 choice R	Reputation blk &	BWF strs & hfrs, 55	50-700#				
Alma	13 blk	618@183.50	Junction City	1 Herf	1465@91.00			s, 2 rds shots, 650-7					
Alma	5 blk	704@180.00	Junction City	1 blk	1340@90.00			s, off grass, 750-85					
Alma	21 blk	740@173.00	Topeka	1 Cross	1135@89.00			s, Spring shots, 65					
Riley	5 Cross	665@172.00	Wamego	1 bwf	1220@87.50			rds shots, wean. 90) days, 450-6	600#			
Alma	9 blk	624@171.00	Wamego	1 blk	1085@85.00		& hfrs, 2 rds shot	,					
Alma	67 blk	806@169.00	Junction City	1 blk	1005@83.00			e, weaned 90+ day		0#			
Wheaton	17 blk	959@164.25	Manhattan	1 blk	1160@81.00		DIK BVVF STIS & h	frs, Fall & Spring s	nots, 600-70	0#			
HEIFER	CALVES - 350		Manhattan	1 blk	1400@79.00								
Topeka	4 blk	371@210.00	Brighton, CO	1 blk	1210@78.00	EARL	Y CON	SIGNM	ENTS	FOR	Δ	UG	. 19
Topeka	6 Cross	369@206.00	Westmoreland	1 blk	1240@77.00			, 2 rds shots, 600-6					
		445@194.00	Manhattan	1 Hols	1835@73.00			. Z TOS SHOIS, DUU-D	:)) ///				

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Kansas Hay Market Report

Compared to the last report, prices for alfalfa and grass hay bumped up again for all regions. Pricing remains all over the map and not much has settled in yet with a wide variance between east (rain) and west (no rain). Demand is high and is coming from in state and out of state buyers, as western Kansas and surrounding states drought conditions continue to worsen. According to the U.S. Drought Monitor for July 26th, abnormally dry conditions (D0) decreased to 13%, moderate drought (D1) increased to 23%, severe drought (D2) increased to 20%, extreme drought (D3) decreased to 17%, and exceptional drought (D4) increased to near 8%. Join agriculture leaders from across the state for the Kansas Governors Summit on Agricultural Growth August 17th and 18th. More information about the Summit and registration, including the Feed and Forage breakout session on August 11th, go to www.agriculture.ks.gov/Summit.

** Prices below reflect the average price. There could be prices higher and lower than those published. Southwest Kansas

Dairy alfalfa steady to .05/point higher, grinding alfalfa, and ground and delivered steady, movement slow. Alfalfa: horse, supreme small squares new crop 12.00/ bale. Dairy 1.15- 1.20/point RFV, Supreme (185rfv - 200rfv) 210.00-240.00, Premium (175rfv - 185rfv) 200.00- 220.00, Good (150rfv - _170rfv) 175.00-215.00. Stock or Dry Cow 205.00-215.00. Grinding alfalfa, large rounds, new crop 210.00-225.00, new crop large square 3x4's and 4x4's 240.00 – 250.00. Ground and delivered locally to feed lots

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and dairies, 225.00-235.00, with an instance at 250.00-260.00; Grass Hay: Bluestem, large rounds 125.00-135.00 delivered, large 3x4's 150.00-170.00 delivered. The week of 07/24-07/30, 7,038T of grinding alfalfa and 700T of dairy alfalfa was reported bought or sold.

South Central Kansas

Dairy alfalfa steady to .05/point higher, grinding alfalfa, steady, ground and delivered steady to 5.00 higher, alfalfa pellets, steady, movement slow to moderate. Alfalfa: horse, small squares 255.00-275.00. Dairy 1.15-1.20/ point RFV, Supreme (185rfv - 200rfv) 210.00- 240.00, Premium (175rfv - 185rfv) 200.00-220.00, Good (150rfv - 170rfv) 175.00-215.00. Good, Stock cow, new crop 215.00-230.00. Fair/good grinding alfalfa, new crop large rounds 185.00-205.00 delivered, 3x4 and 4x4's 215.00-230.00. Ground and delivered 210.00-220.00 with an instance at 230.00-240.00. New crop 215.00-230.00. Alfalfa pellets: Sun cured 15 pct protein 245.00-265.00, 17 pct protein 250.00-270.00, Dehydrated 17 pct 310.00-315.00. Grass Hay: Bluestem, large squares 3x4's, old crop 110.00-125.00. Bluestem: large rounds 100.00-105.00, 3x4's 120.00-130.00, small squares 160.00-170.00. Brome: small squares, 9.00/bale, large rounds 135.00-140.00, 3x4's 140.00-150.00. Sudan: large rounds 160.00-170.00. Oat straw: 80.00-90.00. Wheat straw: 95.00-105.00. The week of 07/24-07/30, 8,455.5T of grinding alfalfa and 702T of dairy alfalfa was reported bought or sold.

Southeast Kansas

Dairy alfalfa steady to .05/point higher, grinding alfalfa steady to 10.00 higher, grass hay steady 5.00 higher, movement slow. Alfalfa: horse or goat, 260.00-270.00. Dairy 1.10-1.20/point RFV. Good, stock cow 200.00-225.00. Fair grinding alfalfa, 160.00-180.00; Grass hay: Bluestem, small squares 130.00-140.00, large round 80.00-95.00, good 3x4 squares 120.00-135.00. Brome, large rounds 140.00-150.00, 3x4 and 4x4 squares 150.00-170.00. The week of 07/17-07/23, 1,378T of grass hay was reported bought or sold.

Northwest Kansas

Dairy alfalfa steady to .05/pt higher, grinding alfalfa steady to 10.00 higher, stock cow steady, movement slow. Alfalfa: Horse or goat, small squares 300.00-400.00



delivered, 3x4 squares 250.00-260.00. Dairy, Premium/ Supreme 1.15-1.20/point RFV. Stock cow, fair/good 195.00-205.00. Fair/good grinding alfalfa, 195.00-205.00 picked up out of the field.

North Central-Northeast Kansas

Dairy alfalfa steady to .05/pt higher, grinding alfalfa, ground/delivered and grass hay steady, movement moderate. Alfalfa: horse, premium small squares, 11.50-12.50/ bale. Dairy 1.15-1.20/point RFV, Supreme (185rfv - 200rfv) 210.00-240.00, Premium (175rfv - 185rfv) 200.00-220.00, Good (150rfv-170rfv) 175.00-215.00. Stock Cow 200.00-210.00. Fair/good, grinding alfalfa new crop 195.00-205.00, new crop large square 3x4's 205.00-235.00; Ground and delivered, old contracts 175.00-190.00, Grass hay: Bluestem, small squares 8.00-9.00/bale, large 3x4 squares 130.00-140.00, 3x3 squares 100.00-110.00, good large rounds old crop 85.00-100.00, Brome: small squares 8.50-9.00/bale, new crop large rounds 145.00-155.00; Oat straw: large rounds 85.00-95.00. Wheat straw: small squares 6.00/bale, large rounds 90.00-100.00, large squares 85.00-100.00. The week of 07/17-07/23, 2,946T of grinding alfalfa and 213.5T of dairy alfalfa was reported bought or sold.

***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.

Zoetis receives expanded labels for beef implant products

Zoetis announced it has received expanded label approval from the Food and Drug Administration's Center for Veterinary Medicine (CVM) on three beef implant products. Synovex Choice[®] is the foundation of new re-implant labels that are now available to feedlot operations, which also include Synovex Plus® and Synovex® One Feedlot.

"This approval provides beef producers with enhanced flexibility to more broadly use these technol-

Feedlot, 60 to 120 days later

Effective immediately, existing packages of Synovex Choice, Synovex Plus and Synovex One Feedlot can be used in reimplanting programs at feedlots. Animal health product suppliers and cattle producers will begin seeing updated labels with the approved reimplantation language by the end of 2022.

"The Synovex brand has contributed more than 66 years of growth productivity and innovation to the U.S. beef cattle industry," said Paul Parker, senior marketing manager, Zoetis. "We recognized the need and committed our resources to seek approval for these reimplant labels. These new label indications provide cattle feeders with proven options to help optimize performance in a profitable and sustainable manner."

For more information on how the expanded labels will fit your operation, please visit with your Zoetis sales representative. You also can visit www.Synovex.com to learn more.

Refer to individual labels for complete directions for use, precautions, and warnings. Re-implant only if and as directed in



up

Gorillas are always up for photo-ops.

They put their hands on the glass, look you in the eye, and ask, "What's

Okay, they don't really talk but you can tell what they're thinking. Things like, "They just don't pay me enough to put up with all these people."

My daughter, Noel, and I took the Littles to the Sedgwick County Zoo a couple of Saturdays ago. It was rainy, not a soaking rain, but enough to occasionally put up the umbrella and it kept the temperatures down most of the day. It was perfect. We spent four hours or more strolling from penguins to elephants to prairie dogs (the fattest prairie dogs I've ever seen! Their country cousins would be sending them to Weight Watchers!).

We also had the opportunity to get up close and personal with stingrays and baby sharks. The stingrays were like gray butterflies caught in the water, flitting here and there. My four-year-old grandson was brave and fed one a piece of shrimp (provided by staff) but the nearly six-year-old granddaughter thought it was gross.

Noel scours the internet and is always finding deals. The best one so far is the Sunflower Summer App that offers free admission to so many at-

Grass & Grain, August 9, 2022 tractions around the state. The program ends August 14, just as school is starting, but hopefully will be offered again next year. It made it possible for the kids to have experiences, at the Cosmosphere, for example, they might not have had otherwise.

We had lunch at the Zoo. It was by far the best lunch EVER at a zoo or just about any other attractions. Street tacos and quesadillas. The kids ate every bite. It was reasonably priced - a great value.

If you check out my Facebook page, my per-

Page 15 sonal page, you'll find the sweetest photo of the grandkids meeting the penguins. I sometimes wonder if the animals ever think, "It's really nice of them to bring such a variety of people for us to look at."

Deb Goodrich is the cohost, with Michelle Martin. of the Around Kansas TV show and the Garvey Texas Foundation Historian in Residence at the Fort Wallace Museum. She chairs the Santa Fe Trail 200, commemorated from 2021-2025. Contact her at author.debgoodrich@gmail.com.

on tick causing concern in the cattle industry NCBA to host webinar

NCBA, in conjunction with USDA, is hosting a twoday webinar to discuss the Asian longhorned tick and its possible impact on the U.S. cattle industry. The free event will be held August 23-24 from 11:00 a.m. to 2:45 p.m. each day.

The webinar will provide cattle producers, state animal health officials, veterinarians and other key stakeholders with current information from industry experts about how to identify and manage the tick. Veterinarians from currently affected states and USDA officials will discuss disease implications, as well as possible

treatment options and prevention of ticks.

The Asian longhorned tick is an invasive pest first found in the U.S. in 2017. Since then, it has spread to 17 states ranging from the South to the East Coast. It has not yet been reported in Kansas, but has been found in Missouri. The tick is extremely mobile and very aggressive, causing stress and severe blood loss in cattle. It also carries diseases such as bovine theileriosis, which causes anemia, failure to grow, persistent infection, reproductive problems and, in some cases, death. There currently is no approved treatment for the disease

"This tick species is of great concern, but producers can protect their herd through frequent inspection and by reporting sightings to their veterinarian or local animal health official," said NCBA chief veterinarian Kathy Simmons. "The first step is knowing what to look for and I encourage producers to participate in this important webinar to receive the most current information."

For more information and to register, visit https:// www.ncba.org/producers/tick-symposium-registration

Angus genetic experts present research to world stage in the Netherlands

importance of The Angus Genetics Inc. (AGI®) stretches far beyond running blood samples for Angus breeders. AGI strives to continuously research and develop worldwide, industry-leading technology in efforts to increase the efficiency and profitability of the Angus breed.

Association staff took their research beyond borders at the World Congress on Genetics Applied to Livestock Production (WCGALP) in Rotterdam, the Netherlands, July 3-8. Three American Angus Association staff members, five current or former interns and several external collaborators represented AGI at WC-GALP, one of the largest global livestock genetics events

"Angus had a strong presence at this year's WCGALP," said Kelli Retallick-Riley, AGI president. "It's crucial that we continue to be involved in these global conversations to keep Angus at the forefront of the industry."

Genomic Selection

Retallick-Riley discussed the evolution of genomic selection (GS). With GS rapidly evolving, providing accurate tools has become increasingly important. From multistep approaches to single-step genomic testing methods, the improvement of this selection criteria and its predictability has proven to be an invaluable tool tinued education about the value of GS along with making it accessible. cost effective and useful to make management decisions will continue to increase awareness and uptake of GS in the future, she noted.

Single-Step Genomic Evaluation

After introducing single-step genetic evaluations in 2017, the Angus breed has widely used this genomic selection method and has reached one million genotyped animals in its database. With such rapid adoption, questions arose about updating the original set of core animals to accurately represent the current whole genotyped popula-

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tion, plus what benefits and potential downsides may result by making such a change on a national scale. Andre Garcia, AGI geneticist, presented research which concluded changes in the set of core animals only marginally affected animal ranking.

Pulmonary Arterial Pressure

AGI geneticist Duc Lu spoke about Angus advancements in pulmonary hypertension. Measured by mean pulmonary arterial pressure (PAP), pulmonary hypertension is defined as high blood pressure in the lungs and the right side of the heart, often associated at elevations 5.000 feet or more above sea level. Through

extensive research, the Association and AGI officially released an EPD for PAP to help Angus breeders make better selection decisions. With the rapid advancement of DNA, AGI has explored approaches to improve the accuracy and breeding value of PAP prediction. The research found that haplotype, HapA, has potential to help increase the accuracy of the PAP EPD for Angus breeders at high elevations to use as a valuable selection tool.

Additionally, the current and former interns and external collaborators presented research conducted alongside the Association

"The research conducted by the Association and AGI impacts the breed internationally," Retallick-Riley said. "We continue these research efforts to better serve our membership and the global Angus population."

For more information about AGI and the genetic tools it offers, visit www. angus.org/agi.





Auction will be held in Kenwood Hall at the Saline Co. Expo Center, 900 Greeley, SALINA, KS Maxfield Parrish; The Canyon Daybreak; Gardens of Allah; Hilltop; King of Black Isles Morning; Stars; Wild Geese Contentment Dreamlight; Waterfall; Maxfield cstasy; Century Midsummer Enstein print; Maxfield Life; The Circle Art work; Art work The Face-The Sun; Maxfield Christmas; Parrish Prometurs; large assortment of other pictures; Colliers Dolls; MM men; Kaldionsours lunch box; Mickey Mouse telephone; decorative vase; Colestal Seasons tea paintings; older mirrors; Japanese jewelry; Scull stick; Indian tomahawks; Indian artwork; M Levin & Co large box; collection art faces; many clowns; large moon; large India sun; large antique plant hanger; accordion; Chequot Club box; many puppets; baseball bank; Ben Franklin statue; trick dog bank; Humpty Dumpty statue; Art Deco statue; Monk statue; face

blocks; candle holders; African art faces; whimsical pipe; bottle top men; bells; clowns; Deco Ladies; Art Deco inc: (frames; Nude Lady; stand; mirror; lady calendar); Art clock; advertising signs; Tiffany type shade; Halloween wall hangings; Gen Scott tin; many clown items; several statues; Mechanical banks inc: (Hometown Battery, Trick Dog, clown); Indian dolls; assortment pictures; figures; lamps; Indian statue; Masonic plaque; Art suns; Marilyn Monroe print; tapestry pictures; Artful rose; many wooden puppets; skeleton cutout; Chinese puppet; Drive Through sign; Pickup Window sign; Beach Boy Print; Dr. Pepper calendar; light fixtures; Coke trays; bottles; Mickey Mouse; Kit Carson Coke picture. Coke tin & ice pick; Lips radio; Little Buddha; gong; art sun china pot; wooden bucket; statue; crocks; Southern Queen large can;

flying clown; pillars; art hands; bowling pens; Handy Andy tool set; school clock; cash register; postal fixture; skinnv girl ad: newspaper man; metal cars; sun thermometer; poster bed antique couch; trunk box; shelving; cans; Mexican bat; large crock; dog bird house; dog clock; shaving cups; Siptone African art; yard art faces; little man light; wicker chairs; James Dean print; Vampire print; horse clock; Shredded Wheat box; Noel Bottle Works calendar; baseball; wooden table; The Red Door Carok; 1-Hour Photo sign; wooden display; door; trunk: clock radio; many tools; tool chest; garden cart; stools; Circus poster; Vermont maple syrup tin; leather bag collection; hand blown decorative lights; many spice containers & bottles; large amount of store shelving; 80 amp wire welder; welding cart.

LAND AUCTION 15,173.06± Acres Offered in 15 Tracts **Prowers County, Colorado** L-2100061 Company.

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Headlight Aiming Station; Blue Point wood box; wall store Auto Wheel Parts cabinet; Atlas Tune-Up cabinet; Brass Fitting cabinet; wood machinist chest; wood 6 drawer cabinet; Santa Fe "Land Of Pueblos" & "Hopiland" pictures; 25 pcs. Pueblo Indian pottery; road signs inc: Vehicles w/Lugs & Disc Prohibited; Orkin sign; floor model phonograph; 78 records; belt buckles; pitcher & bowl; car type tins; 2 sets army spurs; porcelain hospital items; tins tobacco, coffee, lard, other; childs cast iron stove; mini wood scrapers, planes & unusual pcs: 2 sets china; poker table; pedal scroll saw; 2 small anvils; large hardy; step stool; wood pulley collection; cast iron tool box; many unusual iron pieces: barbwire collection; horse bits; calf weaners; drill collection hand & electric; bit collection; barn rollers; scale beams; buck saw; tap & die sets: belt measure: wrench collection some unusual; pipe wrenches; wood handle screw drivers; cream cans; shovels;

forks; chain boomers; socket sets; chisels; wooden creepers; crate hammers; multi tools; many unusual tools: 2 man saw: wood clamps; hooks, hardware & harness pieces; clamps; scrapers; drawing knives; tin seats; sled runners for wagon; iron wheels; oil & gas cans; galvanized cans; lead dippers; barn lanterns; safety cans; unusual oil cans; hay hooks; meat saws, knives & cleavers; wash tubs: sled: Auto maid Fireless cooker; cistern cups; cast iron boilers; custom wood cutting boards; cast iron skillet & griddle; Tinker Toy Panel Builder; cheese boxes; double cherry pitter; milk bottles; wood boxes; railroad oil can; toy grader; other unusual collectibles. FOLLOWING THE ABOVE

COLLECTION WE WILL SELL Barber chair; barber pole; Open sign; beaded shade lamp; hand painted lamp; bracket lamps; lady figure lamp; stain glass lamp; kerosene lamps; large assortment of glass inc: large collection Custard; Fenton; Fenton bowl w/candle holders;

blue glass; candle holders; cruets; candle holders; hand painted bowls; blue bowls; colored glass pitchers: compotes: coffee sets; cruet set; hen on nest; pink Depression; hen on nests; pigs; Pyrex; 4 qt. churn; green glass; mini lamps; Elmo chain pitcher; lady pictures; advertising pictures; many KS items; collection clowns; clown lamp; dresser set; cash drawer; brass items; tins; hand made wagons; large collection of toys many JD & IHC tractors & implements; cast iron toys; Tonka toys; semi trucks; truck banks; toy stoves; house scale; carousel plates: china circus items: collection dolls; Nun dolls; fire nozzles; fire helmet; toy fire trucks; large Santa collection; Halloween items; large assortment figurines: water cooler: camel back trunk; milk bottles; brass bucket; copper boiler; Don't Spit On Sidewalk brick; stamp set; cameras; brass fire extinguisher; Coca Cola cooler radio; brass blow torch; gas lamp; lard press; very large assortment of other items.

NOTE: We will start with the private collection of unusual items, followed by Bob & Joan Dehl collection. There is a very large collection of glass, toys, dolls and other. There are many unusual items, check our website for pictures www.thummelauction.com

BOB & JOAN DEHL Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067 NOTE: Chuck has bought many unusual items over the years, there are many unique items on this auction. It will be a very large auction. Check our website for pictures www. thummelauction.com

CHUCK MONROE

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

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~ Russell Reichart, Holton ~



ige 10 Glass a	t Gram, August 9, 2022				
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	DEADLINE IS 10:00 A.M		RATES AND DISCOUNT		SSIFICATIONS
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18 Month Angus Bulls Al Sired	Priced for the commercial	oleencattleco.com GLENN CHUCK	K & N	WANT TO BUY TRITICALE seed off the farm. Call Brock	balance waterways locate Northwest of Glendale. Ca
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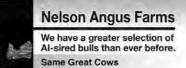
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Grass & Grain, August 9, 2022

Forage Field Day slated August 18 near Salina Organizers of the Cen- and the Saline County The project is funded E. Water Well Road in about, and controlling

Case & IH Tractor Salvage Case 300's thru 2096 IH 460's thru 5488 Over 1000 Tractors on shelf New & Rebuilt parts for all brands of tractors/ combines

MACHINERY

Want to buy Case & IH salvage tractors

Elmer's Repair CENTRALIA, KS 785-857-3248 www.elmersrepair.com tral Kansas Warm Season Forage Field Day, scheduled for Aug. 18, said the event will showcase work being done in central Kansas to improve forages for cattle producers in the state.

Cade Rensink, the director of the Central Kansas Extension District, staff in his office Conservation District have established an onfarm demonstration of annual forages available in that part of the state.

The goal of the program, he said, is "to increase awareness about agronomics and the systems-use of warm and cool season forage crops."

by the Kansas Department of Agriculture's Division of Conservation. Rensink said other key cooperators include Saline County rancher Mike Henry, Star Seed, and Phillips Seed Farms. The August 18 field

day begins at 8 a.m. and is free to the public. The event will be held at 3421

Salina. Reservations are not required to attend. The field day agenda

includes:

• Tours of plots consisting of hybrid pearl millet, teff, crabgrass and photoperiod sensitive BMR sorghum-sudangrass.

• A discussion on identifying, concerns sericea lespedeza.

• Presentations by Henry as well as representatives of Star Seed and the Central Kansas Extension District.

For questions or more information, call the Central Kansas Extension District office at 785-309-5850.

SDA announces local food purchase assistance cooperative agreement made with Kansas **BUILDINGS / BLDG MTLS.**

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MISCELLANEOUS

UNCUT TREES FOR SALE: Several pear trees, few walnut. 3 cedar, 1 mulberry. Will need to be cut down and hauled. Price negotiable. Wamego, KS. 785-456-2245

PUBLIC NOTICE:

During a visit to the Harvesters Community Food Bank in Lawrence, U.S. Department of Agriculture under secretary for marketing and regulatory programs Jenny Lester Moffitt announced USDA's Agricultural Marketing Service (AMS) has signed a cooperative agreement with Kansas under the Local Food Purchase Assistance Cooperative Agreement Program (LFPA). Through LFPA, Kansas Department of Agriculture seeks to purchase and distribute locally grown, produced, and processed food from underserved producers. Under Secretary Moffitt was joined by Kansas gov-

ernor Laura Kelly, Kansas secretary of agriculture Mike Beam and Harvesters Community Food Bank president and CEO Steven Davis

"USDA is excited to partner with Kansas to promote economic opportunities for farmers and producers and to increase access to locally sourced, fresh, healthy, and nutritious food in underserved communities," said Moffitt. "The Local Food Purchase Cooperative Agreement Program will improve food and agricultural supply-chain resiliency and increase local food consumption around the country.

The Kansas Department of Agriculture (KDA) will purchase and distribute \$2.5 million worth of Kansas grown and processed foods to food insecure Kansans in underserved rural and urban communities across the state impacted by increasing inflation and limited access to fresh fruits and vegetables. KDA will partner with agriculture stakeholder groups to identify local, regional, and underserved farmers and ranchers and establish a tiered purchasing standard that gives preference to underserved farmers to expand their businesses.

"With this grant, we will be able to implement an exciting new program that will expand market opportunities for underserved local food growers and producers while also providing local food to underserved communities and families across Kansas," said Beam. "This partnership with local producers and with the state's food bank distribution network will benefit Kansans throughout the food supply chain."

The LFPA program is authorized by the American Rescue Plan to main-

tain and improve food and agricultural supply chain resiliency. Through this program, USDA will award up to \$400 million through non-competitive cooperative agreements with state and tribal governments to support local, regional, and underserved producers through the purchase of food produced within the state or within 400 miles of delivery destination.

More information about the program is available on AMS's Local Food Purchase Assistance Cooperative Agreement Program webpage

Reduce fertilizer cost with soil profile testing

By James Coover, Wildcat Extension District crop production agent

If there is one silver lining to a year of drought and failed corn, it's that there will be more nitrogen left in the soil for the wheat. How much nitrogen can really only be determined with a soil profile test. This deeper soil test will also determine the amounts of chloride and sulfur in the profile as well. A profile test can directly save on nitrogen applications and determine if extra sulfur or chloride is needed. This year nitrogen is very costly per unit, and droughtstruck corn could have left more nitrogen in the soil; it has never made more sense to profile test before wheat.

How to Profile Test

A profile test is taken slightly differently from a normal soil test for pH, phosphorus, and potassium. A profile test should be taken with an 18 to 24inch soil core, rather than a six-inch core. If there isn't 24 inches of soil to take, then however deep the probe can go. However, it is still important to take at least ten cores per soil sample. It is also important to have around the same depth for each core. While it takes longer to take a deeper soil sample, profile samples can represent a larger area. One per 40 to 80 acres is fine. Profile samples are really to get a general idea of what the soil still has left in it. While the number of cores

and depth are still important for profile samples, the results and recommendations they give do not need to be as exacting as surface samples. This is because mobile nutrients and immobile nutrients vary within the soil.

Mobile versus Immobile

Nitrogen, chloride, and sulfur are very different from the commonly tested phosphorus, potassium, and zinc. It is more than just the mobile nutrients, being anions, that move easily through the soil while the cationic immobile nutrients don't. They actually exist differently in the soil. When we test for immobile nutrients we are only getting an 'index' of total nutrients, merely a fraction of the total pool that we expect the plants can adsorb. When we test for mobile nutrients, we are getting the full amount, except for that contained in organic matter (which is also important to test for application recommendations). Nitrogen, chloride, and sulfur all have gaseous forms as well and can

application. I have seen plenty of six-inch surface samples tested for nitrates and sulfur because it was added to a surface sample. However, after an entire season of mobile nutrients moving down with the few drops of rain we have gotten, moving up during periods of evaporation, and being pulled into plant roots, it is impossible to tell where they are at this point. They could be concentrated in the top six inches... but probably not. The only thing for it is to test the entire profile and get the total amount. As mentioned before, mobile nutrients are determined in a total concentration, not an indexed plant-available approximation.

Profile Test Saves Costs

K-State nitrogen recommendations without a profile N test will assume a flat residual N amount of 30 lbs. per acre. This can easily be an underestimate during drought years like this one. 40 bu. corn yield will remove only 30 lbs. N per acre and seven tons silage will remove about 55 lbs. N. If 120 lbs. N was applied and 40 more from O.M. breakdown, even with denitrification, runoff, and other losses of 35 percent, that leaves 70 lbs. N left after 40-bu corn and 50 lbs. N after seven-ton silage. If a profile test finds 50 lbs. N per acre instead of the assumed 30 lbs. N, and with the current price of 75 cents per unit of N, then that is \$15 per acre. For a 60-acre sample, that's \$900 saved for a \$12 profile test. Past research has shown that residual N left in the profile after a drought year in corn can be up to 100 lbs. N per acre. However, before drastically cutting pre-plant fertilizer before the wheat, proof is needed of how much N is still there. The logic is simple. Poor yield due to drought leaves more nutrients in the soil and fertilizer is expensive, therefore, profile samples and surface samples are needed to find what nutrients are left. For more information about soil sampling or crops, please contact James Coover, Crop Production Agent, jcoover@ ksu.edu or (620) 724-8233.

ANNUAL SUMMER CONSIGNMENT AUCTION THURSDAY, AUGUST 18, 2022_8:30/AM Live Auction held at 1325 Hwy. 75, Tekamah, Nebraska **Tractors - Tillage Harvest & Grain Handling Trucks, Trailers, Vehicles Antiques, Hay & Livestock, Construction Planting & Spraying Miscellaneous** All Items received after 8/12 will be sold, but not included in online bidding. LEE VALLEY, INC. JOIN LEE VALLEY IN ITS 60TH YEAR OF BUSINESS! 402-374-2792 * www.leevalley.net Scott Olson: 402-870-1140 FARM EQUIPMENT AUCTION THURSDAY, AUGUST 25, 2022 — 11:00 AM LOCATION: (3620 N. Sherman Rd., GARDEN CITY, KS) From Jct. Hwy. 50 & Hwy 83 on East side of Garden City, go 5 $\frac{1}{2}$ mi. East on Hwy. 50 to Pole Line Rd., Go 2 mi. East on Pole

Line Rd.; 3 mi. North on Sherman Rd. OR From 4 way stop on Hwy. 156 (just East of Wal-Mart) on Hwy. 156 go Northeast 8 1/2 mi. to Sherman Rd. (Sherman Rd is between 11 & 12 mile markers) 4 mi South on Sherman Rd AUCTIONEER NOTE: Dennis has decided to retire so selling his

equipment. Everything is in excellent condition. Very few small items - will be on Machinery @ 12:00 Lunch will be served.

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Sale Listing, Photos & Details at: www.leevalley.net ONLINE BIDDING at: www.Equipmentfacts.com Online Sale Consignments will be accepted until 8/12.

Kansas Pork Association and the National Pork Board Selection of 2023 National Pork Board Delegates: The election of pork producer delegate candidates for the 2023 National Pork Producers (Pork Act) Delegate Body will be conducted electronically on Tuesday August 16, 2022, from 9:00 a.m. to 4:00 p.m. Voting can be done at the ollowing link: www.kspork.org 2023-delegate-election. After submitting the electronic ballot, a "Thank You for Voting" message will be displayed to confirm the electronic vote was successful Any producer, age 18 or older who is a resident of the state and has paid all assessments due may be considered as a lelegate candidate and/or par ticipate in the election. One vote per eligible producer. For more info, contact the Kansas Pork Association, 2601 Farm Bureau Road, Manhattan, KS 66502. Phone: 785-776-0442.



TRACTORS. COMBINES. GRAIN CARTS: 2013 JD 9360 R Tractor, 4WD, 3 pt., PTO, 5 hyd., Power Shift, 2933 hrs., 2630 Green Star auto steer 480/80 R50 Duals; 2006 MX275 Case IH Tractor, front wheel assist, 3pt., 4 hyd., 5160 hrs., (RTK Auto Steer & 2-300 gal. saddle tanks will be offered separate); 2000 Case IH MX240 Tractor w/ front wheel assist, 4 hyd remotes, PTO, 3 4,500 hrs.; Front Duals for pt, 4,500 hrs.; Front Duais Tor MX275 or MX240 Case IH Tractors: Combines (Gone through every yr. by Case Dealer: 2003 Case IH 2388 Combine, 4x4, lat-eral tilt, 6000 eng hrs., 4350 sep hrs., Field Ready, 1990 Case IH 1680 Combine 4x4, 8830 hrs. motor; 2010 Case IH 3208 Corn Head, 8 row, 30"; (4) – 653 A JD Crop Heads - (3) IH 1010 Headers 25'; Rear Axle for 2388 Case IH combine; Brent 882 Grain Cart w/tarp & scales; A&L F-700

Grain Cart w/tarp. SEMI, GRAIN TRAILER, TRUCKS & PICKUPS: 1994 Freightliner, M11 Cummins 370 HP Motor, 10 sp, 22.5 tires, (400,000 miles ??); 1999 Timpe 42' Grain Trailer, Super Hopper, 11-24.5 tires, ele. tarp; Jet 22' Pup Trailer, 11-24.5 Tires, Rollover Tarp w/Tele Scope Hitch; 1990 Ford – F-250 PU, auto, V-8, 460 motor (55,460 mi); 1978 GMC 6500 Truck Tandem w/ drag axle, V-8, 366 motor, 5 sp w/2 sp., 22' Bed & Hoist w/Rollover Tarp (59,000 mi.); Hyd. Drill Fill Auger (offered Separate); 1977 Ford LTL 9000 Truck, 350 Cummins motor, 13 sp., 11-24.5 tires, 22' Bed & Hoist w/Rollover Tarp; 1971 Ford LT 9000 Truck 300 Hp Cummins, 13 sp., 20 Bed & Hoist, Rollover Tarp; 1963 Chevy 60 Truck, V-8, 327 motor, 4 sp w/2 sp, 15' Bed & Hoist w (53,000 mi); Drill Fill Auger (of-fered separate); 1948 Chevy Truck, 13' Bed & Hoist, 76,000 mi 12 V Seed Wheat Auger (nice). w/ be offered separate.

MACHINERY: 2015 Apache AS1025 Sprayer, 90' Boom, 1,000 gal. Tank, Trimble Auto Steer, 1,030 hrs.; Rhino SE 15-MACHINERY: 2015 4A Mower -Orthman 1 Tripper, 12 row, 30", 3 Pt.; Sunflower 3372 Sweep Plow w/7-6' Blades, NH3 & Pickers; Krause 2426 Tandem Disk w/Harrow; Orthman Fallow Master, 42' w/Pickers; Case IH 955 Planter, 12 row, 3 pt, Corn Milo & Soybean Drums, Rawsor Seed Rate Controller; Hamby 30' Hamby Double Tool bar w/ shanks; 30' JD 400 3pt. Rotary Hoe; 500 Bu. Easy Trail Gravit Wagon w/Auger; JBI 1331 HS Bar, 32', 30" spacing w/13 Yet-ter NH3 Applicators & Elk Creek Caddy; (3) IH 7100 Hoe Drills, w/hitch 14'x12" Spacing, End Transport wheels; Great Plains Folding Disk Drill, 30', 8" spac-ing; (2) UP 750 Prills, 15', w(10") ing; (2) JD 750 Drills, 15' w/10' spacing, single disc w/hitch & markers; Blu – Jet Ripper, 20', 9 shanks; Krause 2330 Chisel, 30' 30' Folding Spring Tooth - Flex King 4-5' Sweep Plow w/Pickers Richardson Mulch Treader, 45 (like new); Icon 1632 Pull Type Blade, 16'; Pronghorn Track Filler; 15' OneWay; 2 Wheel Spraye w/Booms: Hoeme Chisel SHOP: Miscellaneous Hand Tools - Shop Supplies; chains, boomers, grease guns, high lift jacks. **MISC.:** Wegele Mower, 12 HP

Kohler, 30" cut (runs good); (2) 500 gal. Fuel Tank on tandem axle Trailer; MK 100-71 Westfield Auger, 10"x70' - Auger 6"x32"; Speed King Auger 6"x40' -West-field Hyd. Drill Fill Auger Parts; 4 Chemical Transfer Pumps - 3 Pt. Boom; Hiniker Rate Control lers & Parts - 150 gal. Fuel Tank; Williams Model 50 Hyd. Pump for Hoist; 70 gals., RT3 Round up; Pile Power Poles & Posts 20 Railroad Ties; (5) 18.4-46 Tractor Tires (used); (2) 30.5- 32 tires; (1) 14.9 – R34 Tire; Spare Wheels & Tires for Trucks & Trailers; 12 - Business Band Radios

GRASSLAND AUCTION 308.72 Acres MARION COUNTY GRASSLAND FRIDAY, SEPTEMBER 16, 2022 - 10:00 AM Sale held at the Marion County Lake Hall, 1 Office Drive, MARION, KANSAS 66861 egal Description: The west one-half of Section 36, Township 19 South, Range 5 East (W/2 36-19-5) Marion County, KS.

Land Location: From Jct. Hwy 56 /77 2 miles East of Marion (Roundabout), go 7 miles East on Hwy 150, OR from Jct. Hwy 50/150 South of Elmdale, KS. 9 miles west on Hwy 150.

Land Description: A quality native grass pasture located on the Marion County/Chase County line. Hwy 150 runs along the North boundary and a good county gravel road is along the west giving good access to this pasture in any conditions. The pasture is open and clean with no brush and trees with the exception of a few stray mature trees. The terrain is gentle rolling and can be driven with low profile car. Fences are primarily 5 and 6 wire with a small stretch of 4 wire. The entire east line has near new 6 wire fence with pipe bracing. There are 2 ponds for watering livestock in addition to a well with solar pump and stock tanks that is located in the west central area with easy access from the road.

Possession: Following the 2022 grazing season & upon full settlement AUCTIONEER'S NOTE: This is an exceptional pasture in the western Flint Hills having easy and good access. The land lays so well you can drive your car to check on livestock. The native and mixed grasses show care in stocking rates. A good wate well with solar pump gives you options for various seasonal uses. This is a nice size pasture to add to and expand any oper-

ation!! See you at the auction!! TERMS: \$50,000.00 earnest money day of sale payable to Security First Title Company. The balance will be due in full at closing which shall be on or before October 17, 2022. Title insurance and closing fees will be divided equally between buyer and seller. 2021 taxes were \$938.72. 2022 taxes will be paid by seller. All financing arrangements and /or inspections must be made prior to the auction. The property is being sold in an "AS-IS" condition and is not subject to financing o appraisal. All information is gathered from Marion County sources and is deemed reliable but not guaranteed. Statements made day of sale take precedence over any advertisements, printed material or previous statements. Leppke, Inc. is the agent of the Seller.

SELLER: AMBER N. MOORE

Go to www.Leppke.com for pictures, terms & information

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be lost to or gained from the atmosphere.

Six Isn't Good Enough

In truth, profile testing for the mobile nutrients is rare and I have seen very few come into the Extension offices over the years; largely, I assume, because profile soil tests are a 'snapshot' of what is in the soil at the time of the test. Therefore, the results can only be used one time and for one fertilizer



Looking for an auction bill, hay prices or farm news? Subscribe to: GRASS&GRAIN Call 785-539-7558 or visit us ONLINE at www.grassandgrain.com



Grass & Grain, August 9, 2022 Charolais champions named at the 2022 AIJCA Junior National Show and Leadership Conference

The 2022 American-International Junior Charolais Association (AIJCA) Junior National Shows were held at Fonner Park, in Grand Island, Nebraska. AIJCA members from 31 states paraded 614 entries in the 47th annual show, "Char-Cation." Chris Mullinix of Manhattan evaluated 290 entries shown in the Bred and Owned Heifer, Bull, Steer and Percentage Heifer Shows on Thursday, June 23. Curtis Doubet of Lodge Grass, Wyoming, judged the 324 entries shown in the Owned Heifer Show Friday, June 24. The champions named are as follows:

Champion Progress Steer: Isom Marston, Canton.



Pictured are champion senior showmanship winners at the Charolais Jr. Nationals. From left: Judges Charles and Heidi Anderson, senior division grand champion: Weston Schrader, Wells; reserve grand champion: Tara Tellefson, Moses Lake, Wash.; third overall: Cora Clift, Ellensburg, Wash.; fourth overall: Ethan Adams, Blossom, Texas; fifth overall: Trisha Dybdal, Newcastle, Neb.

sion VIII Reserve Champion: RF Ms IA Wind 035, 1-25-20, by BOY Outlier 812 ET Pld. Heifer calf, JBE Ms Karmen 202K, 2-18-22, by CCC WC Redemption 7143 Pld ET. Hayden Englert, Washington.

Weaver Livestock Showmanship- Intermediate Division Fifth Overall: Josi Schrader, Wells. Senior Division Grand Champion: Weston Schrader, Wells.

Sullivan Supply/Stock Show U Team Fitting Intermediate Division Champion Team: Wildcats - Josi Schrader, Wells; Shayla Dismukes, Checotah, Okla.; Breeze Bunker. Sparta, Wis.; Samantha Gerlach, Columbus, Mont.

Team Sales Senior Di-

Midwest Marketers Weston Schrader, Wells; Josi Schrader, Wells; Breeze Bunker, Sparta, Wis.; Shade Bunker, Sparta, Wis.

Skit Best Comedy: Kansas Junior Charolais Association

Interview/Resume High School Division 2nd Place: Weston Schrader, Wells.

State/Affiliate Scrapbook 2nd Place: Kansas Junior Charolais Association, Isom Marston - Historian

Prepared Speech Junior Division 1st Place: Kinsley Harris, Hepler, Senior Division 1st Place: Weston Schrader, Wells.

Graphic Design – Herd Advertisement 1st Place: Hayden Englert, Washing-

Owned Female Divivision Champion Team: ton. ommodity F' low Studv releases Kansas Agribusiness

The Kansas Department of Agriculture has published a Kansas Agribusiness Commodity Flow Study, which analyses the movement of crops, livestock, and other agricultural products within and from the state of Kansas. The study was the result of a need identified through KDA's Ag Growth Strategy project which indicated that multiple sectors across Kansas agriculture would benefit from a thorough understanding of commodity flow both intra and interstate.

The report identifies key value-added processing, market, and demand points while assessing the role and utilization of infrastructure essential to commodity movement. Results from the report include information about net outflows of feed ingredients, the role played by road and rail infrastruc-

Care II

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MORGAN RIAT, REALTOR®/AUCTIONEER 785-458-9259

ture in the agriculture supply chain, and how Kansas leverages strong local synergies to add value in livestock production and processing.

'We look forward to seeing how this information will benefit our partners across the Kansas agriculture industry as the study

SATURDAY, AUGUST 13, 2022 — 10:00 AM LOCATION: 22605 Oregon Trail Road, BELVUE, KANSAS 66407 DIRECTIONS: Turn North on Pleasant View Road off HWY 24 and go North to Oregon Trail Road.

We will have various small antique items as well as antique farm machin-

tools, and antique items, more items to be discovered. TERMS: Cash or Valid Check day of sale. No electronic

payment will be accepted. For complete terms, see Website. Announcements on the day of sale take precedence over all advertising

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ery and other implements including: New Holland hay rake, Farmall Super

M with wide front end, seed drill, Ez flow, International corn sheller, Case

1030 tractor (not running), Caterpillar bulldozer (stuck motor), Farmall H (not running), rolls of barbed and netted wire, sickle bar mower, 3-point

blade, 3-bottom plow, dump rakes, drag harrow, parts combine, misc, hand

Turn Right on Oregon Trail Road and proceed approximately 1 mile.

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provides detailed analysis of the movement of agri-cultural products," said Secretary of Agriculture Mike Beam. "It will help identify where opportunities exist to enhance commodity flow and improve market efficiency and competitiveness of Kansas agriculture both domesti-

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cally and globally."

The study was conducted by Decision Innovative Solutions with input from the Kansas Department of Transportation, agricultural commodity organizations, and several industry

partners. Results from the study are now available to the public, and will be utilized by policy makers, stakeholders, and other members of the Kansas agriculture industry To view the full study,

visit the KDA website at www.agriculture.ks.gov/ CommodityFlow. more information about the study, please contact KDA economist Tori Laird at 785-564-6726 or Tori. Laird@ks.gov.



3 wheel Recumbent Bike (like new); EZ-GO Battery Golf Cart, converted to 6 Person Trolley Car; 1924 M-TT Truck w/engine (as is); 1924 Dodge Bros. Touring Car w/engine (as is); 1929 REO Speedwagon w/engine (as is); 1950 Chevy Grain Dump Truck (runs); 1966 Chevy C-40 Winch Truck; 1976 Postal Jeep w/original engine (runs); 1948 Detroit Transit Bus converted to Camper; 1966 & 1967 KW Semi Tractor for parts; 4 Semi Trailers for Storage; Cycle Trailer; Alum. Truck Sleeper; Various Tires & Rims; Lots of Collectible Car & Truck Parts; 1940s Wire Spoke Wheels; M-T Wheels; New Chevy & Ford Radiators; 100-plus Hub Caps; 25-plus Early Model Car Headlights & Lenses; Lots of Truck & Tractor Headlights; Ear-

Wheelers; cement mixer; 3 pt 6' tandem disc; buzz saw; 3 pt slip scraper; 3 pt post hole digger (like new) 3 pt bale fork; 3 pt 2 bt plow; M&M chipper/shredder w Ford engine; 5' whirlcut mower; garden cultivator; port fuel tank; fuel tanks on stands; T-post drivers; & more SHOP TOOLS & COLLECTIBLES: Drill press air compressors; barrel pump; lots of tool boxes & chests; socket sets; open & boxend wrenches hammers; Lg. selection of hand tools; 43' Custom Designed Train w/5 passenger cars (gas engine powered); 6'x8' dog kennel; paver bricks; 3 Riding Lawn Mowers for parts; Scale Model Cars & Trucks; Various Toys; school desks & chairs; Cole-man lanterns; RR jack; *plus much more.*

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To advertise in these or future special issues, contact your GRASS & GRAIN sales rep:



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Donna Sullivan - Managing Editor gandgeditor@agpress.com Office: 785-539-7558

Page 20 Grass & Grain, August 9, 2022 Drought requires feed efficiency in cattle

Low supplies of hay make feeding cattle a challenge. Elizabeth Picking, a University of Missouri Extension livestock specialist in southwestern Missouri, sees the effects of severe drought in her area – dwindling hay supplies, poor-quality hay, high prices and ponds going dry.

Under these conditions, cattle producers need to be more efficient with feed, Picking says. This involves testing forages and calculating the cost of energy and protein to get the best value and results.

Most county Extension centers have hay sampling probes that producers can borrow for taking hay samples to test quality or nitrate content. Some offices have moisture and temperature probes for avoiding fires caused by hay that is too wet. Send samples to a laboratory certified by the National Hay Testing Association.

Consider weaning older calves when short on feed, supplementing feed during critical periods and culling nonproducers, Picking says.

Reviewing forage quality and dry matter intake during growth and reproductive stage helps producers **Certified Angus Beef and D** determine needs. Also, an understanding of protein and energy for spring and fall calving helps.

Cows need energy-producing supplement when hay supplies are low. Picking suggests a review of crude protein and total digestible nutrient percentages.

Producers can stretch hay supplies by substituting one pound of grain to replace two to three pounds of hay, she says. Cattle need at least 0.5% of their body weight in dry matter of forage per day. Cattle will initially appear gaunt and hungry but will adapt within two to three weeks.

One alternative is tubs of supplemental protein and minerals. They vary widely in price, contents and daily consumption. These come in a cooked and block forms. The moisture-dense blocks are usually cheaper than cooked tubs, but they may be more expensive per unit of nutrient. Blocks are easier to handle than cooked tubs, weighing 30-35 pounds rather than 100-500 pounds. They are best suited to small herds, Picking says. Use salt to limit feed intake. Cattle can eat about 0.1 pound of salt per 100 pounds of body weight per day. Mix with commodity feed to limit intake if using a free choice feeder. Cattle can overeat, so take care to limit supplies. Salt increases water needs, and this can be a problem when ponds run dry.

Another option is adding liquid feed on low-quality hay. This improves palatability, reduces dustiness and gives cows extra protein and energy. Limit urea to no more than half of the daily protein source.

Stockpiled fescue can be fed when endophyte levels are lower in January and February. Graze stockpiled Bermuda grass early in winter, Picking says.

The MU Extension publication "Drought-Related Issues in Forage, Silage and Baleage" is available online at extension.missouri.edu/agw1017.

More information on forages is available from the Alliance for Grassland Renewal at www.grasslandrenewal.org. The alliance includes partners from university, government, industry and nonprofit groups.

Drought resources from MU Extension: mizzou.us/ DroughtResources.

Certified Angus Beef and Ducks Unlimited partner to preserve working grasslands

By Abbie Lankitis and Kylee Kohls

Grass and water.

These are the essential elements in beef production — the same resources vital to healthy waterfowl populations. Productive agriculture and conservation go hand in hand.

That's why Certified Angus Beef announced a collaboration with Ducks Unlimited at the 2021 Angus Convention in Fort Worth, Texas. Together, the two organizations assembled half-a-million dollars to launch the Working Grasslands Conservation Initiative, helping unlock an additional \$2.5 million in grants to fund the initiatives' work over the next three years.

Supporting economic and environmental stewardship, this project allows cattlemen to lean on the technical expertise of Ducks Unlimited personnel through voluntary, cost-sharing programs focused on preserving and restoring grasslands important to cattle ranching, duck populations and our climate in the Northern Great Plains.

"Together, we can deploy more voluntary, incentive-based programs that work for the Angus rancher while advancing carbon sequestration, clean water and biodiversity," says Bruce Cobb, executive vice president of production for Certified Angus Beef.

The three-year initiative includes financial and technical assistance to interested landowners, notes Billy Gascoigne, director of agriculture and strategic partnerships for Ducks Unlimited.

"This collaborative work rallies around ranch-

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erers facing growing challenges while being the stewards of our remaining grasslands and wetlands in some of our most priority landscapes," he says. "We see ranchers trying to keep improving how they produce cattle while remaining economically viable. We want to make sure they have the resources us needed and help elevate the critical role of live-

stock in preserving this critical habitat." "Certified Angus Beef is committed to demonstrating the benefits of beef production beyond a great steak," Cobb says. "Healthy ecosystems come along as a byproduct of raising the best tasting

beef." Third-generation ranchers from the James River Valley in Glenfield, North Dakota, agree. Brothers Justin and Nathan Spickler made good use of Ducks Unlimited

cost-share programs, each run their own Angus seedstock herds and grow forage crops.

"We live in the area where the tall- and shortgrass prairies meet," Justin says. "It's great grass and very productive, with a wide species variety so we can raise heavy calves without supplemental feed."

That makes Spickler pastures a perfect symbiotic habitat for waterfowl and Angus cattle.

Waterfowl nest upland and need grass to procreate, sometimes miles from the nearest water.

Justin linked with Ducks Unlimited in 2017 and Nathan in 2019 on similar projects. They costshared fencing and built water tanks supplied by solar energy, as well as grazing cover crops.

"By starting in our rye, we hit native grass about a month later than normal," Nathan says. "It allowed us to rest our grasses way more than what we could otherwise in the drought."

Justin appreciates the common ground: "Improvement of range land helps us both," he says. "This is a good relationship — helping people raise Angus beef. It's a win for both."

Often called the most endangered ecosystem in North America, the tallgrass prairie offers valuable, resilient carbon storage. One of the best ways to maintain these vital grasslands are through livestock integration on family farms and ranches.

"These lands are more sustainable now and in the future when they are being stewarded by ranchers grazing livestock," Gascoigne says. "Our conservation staff live in these same communities and are vested in developing programs that meet local needs. We sit down at the kitchen tables with farm families and identify solutions through fencing, water development, cover-crop seeding, soil health evaluations, and rotational grazing to make better grass and wetland conditions."

The Prairie Pothole Region (PPR), which extends far into Canada, stretches in the U.S. from northwest Montana to central Iowa and hosts more than 4 million ducks in its grass biomes.

Historically, half to as much as 80% of North American waterfowl utilize the PPR to nest and rear their young. This same region has been important to ruminant animals for centuries – first bison, now cattle.

"We know these grasslands evolved with grazing animals—an important factor in rangeland and soil health," Gascoigne adds. "Working in this landscape for 85 years, we recognize that proactive work with private owners — farmers and ranchers lets us achieve a lot more win-wins at a scale important to the sustainability of waterfowl and cattle production."

Cattlemen often surround themselves with advisors and expertise outside their primary focus, Cobb says. It creates a team.

"If you have a cattle operation, you have vets, nutritionists, risk managers, bankers and tax accountants," he notes. "Why not have somebody to help you understand the health of your land?"

The people at Ducks Unlimited understand conservation biology. rangeland health and agronomy. Gascoigne adds, "We know less about how to drive value back to these ranchers so they can be economically sustainable for generations to come. The experience of Certified Angus Beef in this realm is what's so powerful about this work: to have diversity within the sustainability views of economics — environmental, social and cultural."

Both organizations understand maintaining grasslands requires sustained ranching. The Working Grasslands Conservation Initiative is a unique partnership for a unique time, meeting the call of consumers while supporting family ranchers.



Riley County 4-H'ers want to say THANKS for purchasing our Food and Livestock at the 2022 Riley County Fair Auction. Reserve Grand Champion Rabbits Purchased by: Cal & Barb Livingston

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> Please join us for the 2023 Riley County 4-H Auction at 6:45 pm, Monday, July 31 at the Riley County Fairgrounds.

Bob Anderson

Josh Wendland Troy Warnken

August 19-21, 2022

Emporia, KS

SCHEDULE OF EVENTS:

FRIDAY, AUGUST 19, 2022

6:00 - 7:00 am	Sale Barn	WIBW Live Radio Broadcast
9:00 am	Sale Barn	Live Stocker Show
11:30 am	Bowyer BldgI	Beef Producers Seminar w/lunch
6:00 pm	Bowyer Building	Ranch Feed
7:00 pm	Fairgrounds Aren	na Ranch Rodeo

SATURDAY, AUGUST 20, 2022 ~ Lyon County Fairgrounds ~

11:00 am	Free Hamburger Feed
5:30 pm	Awards Banquet
6:30 pm	
7:30 pm	Etta May, Entertainment
9:00 pm - 11:30 pmSteve Kile	Band, Dance at Bowyer Building

SUNDAY, AUGUST 21, 2022

8:30 am........Emporia Municipal Golf Course.......Golf Tournament

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f Flint Hills Beef Fest

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2022 GEARY COUNTY FAIR LIVESTOCK GRAND AND **RESERVE CHAMPIONS**



Addy Snider earned Grand Champion Bucket Calf in Reserve Champion Bucket Calf in the 7-9 year-old the 7-9 year-old division.



Tyler Proietti was awarded the Reserve Champion Bucket Calf in the 10-12 year-old division.



Cody Brown won Grand Champion Market Beef with his 1300-pound Gelbvieh. Judge for the show was Jacob Schmeidler.



Natalie Hall took home the Grand Champion Dairy Goat award with her Senior Nubian Doe.





division was earned by Nolan Langvardt.



Kaycee Brown took home Grand Champion Breeding Beef with her Gelbvieh/Balancer Junior Yearling



This 1298-pound Hereford owned by Kaycee Brown was selected as Reserve Champion Market Beef.



The Reserve Champion Dairy Goat was awarded to Sammie Hall with her Senior Nubian Doe.





The Grand Champion Bucket Calf in the 10-12 yearold division was awarded to Jacob Roeser at the Geary County Free Fair.



The Reserve Champion Breeding Beef was a Gelbvieh/Balancer Aged Cow shown by Cody Brown. Brown was also selected as Reserve Champion Beef Showman.



Tava Gustafson was awarded Grand Champion Beef Showmanship honors.



The Grand Champion Horse was an aged gelding shown by Grant Slough. Slough also earned Grand Champion for Horse Showmanship.



The Reserve Champion horse was an aged mare shown by Tava Gustafson. Judge for the show was Beth Hecht



Kaycee Brown took home Grand Champion Breeding Goat. Brown also earned the Reserve Champion Goat Showman award.







Nora Kvacik was Reserve named Champion.

In the Horse Show- Kaycee Brown's 94-pound manship division, entry was chosen as the Grand Champion Meat Goat. Judge for the show was Tatum Brunkow.

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The Reserve Champion Meat Goat weighed in at 100 pounds and was shown by Tava Gustafson. Gustafson also earned Grand Champion Goat Showmanship honors.







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Grass & Grain, August 9, 2022



Kacey Butler's Southdown Fall Ewe Lamb was selected as the Grand Champion Breeding Sheep at the Geary County Free Fair. Butler was also named Grand Champion Sheep Showman.



This 128-pound Hampshire lamb owned by Emmy Gfeller was awarded Reserve Champion Market Lamb honors at the Geary County Free Fair. Gfeller was also named Reserve Champion Sheep Showman.

My experience in multiple segments of the beef industry has taught me that

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This Speckle Spring Ewe Lamb shown by Kacey Butler was chosen as Reserve Champion Breeding Sheep.



In the Shepherd's Lead division Grand Champion was awarded to Kaitlyn Sohnrey.

Tava Gustafson won Reserve Champion honors in the Shepherd's Lead.

200.0000



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Dara's Fast Lane:

Manhattan, KS - 5321 Tuttle Creek Blvd. - 8811 US-24 -- 1132 Pillsbury Dr. -

Copiestare also available at these businesses:



Kacey Butler won Grand Champion Market Lamb honors with her 123-pound Crossbred. Judge for the show was Tatum Brunkow.



Kacey Butler's Berkshire Breeding Gilt took home Grand Champion Breeding Swine honors. Butler also earned Reserve Champion in Swine Showmanship.



The Reserve Champion Breeding Swine award was won by Cody Brown with his Crossbred Breeding Gilt. Judge for the show was Colben Dodson.



Tava Gustafson won Grand Champion honors with her 305-pound Duroc in the Market Swine division. Gustafson was also awarded Grand Champion Swine Showmanship honors.



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6		Bonded of	& Insured			
SALE E	VERY WEDNE	SDAY IN B	EMPORIA, I	KANSAS AT 11:00 AM		
620-34	2-2425 or 800)-835-780	3 toll-free	• Fax: 620-342-7741		
	Date: 8/3/2					
	Cows: S	\$45-\$91;	Bulls: \$10 9 mix	596@186.00		
18 blk		@178.00	-	615@205.50		
7 mix	551	@168.50		663@196.00		
27 blk		@175.00		605@193.50		
6 bkb 9 blk		@174.00 @172.50		681@190.50 661@185.50		
12 blk		@170.50		639@181.00		
56 mi		@170.50	-	618@173.00		
8 blk 48 mi		@170.00 @167.75		677@170.00 742@187.25		
6 Cro		@150.25		726@186.75		
14 blk		@172.00		734@183.50		
67 blk 137 b		@170.25 @170.25	10 wf 16 blk	752@180.00 719@179.50		
11 mi		@170.25		789@178.00		
6 mix		@169.50	6 blk	778@174.75		
143 m		@169.25	-	799@172.50		
9 mix 51 mi		@166.50 @166.50		789@172.25 774@171.00		
61 mi		@165.50		733@169.00		
7 mix		@163.00		857@177.00		
49 mi 19 blk		@171.50 @166.00		874@172.75 854@170.00		
65 mi		@166.00	-	838@169.50		
76 mi	x 832	@165.50	36 mix	823@169.00		
64 mi		@165.35		885@168.75		
5 mix 11 wf		@163.00 @157.00		839@163.00 843@163.00		
8 mix		@155.00	10 Red	864@162.00		
17 mi	x 902	@163.00	10 blk	903@168.00		
	STEERS		16 mix 15 mix	984@166.00 943@162.00		
6 blk		@199.50		955@158.00		
17 blk	594	@199.50	14 Red	1054@154.00		
			ENTS	FOR AUG 17		
• 50 m	nix strs, 900-1000		VCALET			
PLUS MORE BY SALE TIME!						
	nix hfrs, 850-950;			ON AUG 24		
			BY SALE 1	IME!		
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Cody Brown's 244 pound Crossbred hog was selected as Reserve Champion Market Hog at the Geary County Free Fair.

					-	ę		-	-		-	
JC	JC LIVESTOCK SALES INC. Wednesday Sale, Hogs NOON • Cattle 12:30 PM Report from August 3rd, 2022							CLAY CENTER LIVESTOCK SALES INC. Cattle sales Tuesday, 11:00 AM.				
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41 109 11 15	650 766 684 726	201.50 200.10 196.00 194.00		855 967 OP BUTCHER \$89.50 @ 1,430			37 27	809 816	178.00 178.00		BUTCHE .50 @ 1,4	
50 12 27	753 782 808	192.85 189.00 187.00		OP BUTCHER NO TEST	BULL:	Q	62 10 4	913 867 924	169.75		BUTCHE 3.00 @ 2,7	
11 65 38	848 912 HEIFERS	178.00 173.00				Y	6	HEIFE 503			PAIRS: \$1	,210
• 2 fat : • 30 Ar	38 595 193.50 PAIRS: \$1,225 EARLY CONSIGNMENTS FOR AUG. 10 SPECIAL ANNIVERSARY SALE • 2 fat strs											
• 17 blk x strs & hfrs							{		P AND PTEM			
		FALI ION.,		LF SALI 10	C				ALE TU			F. 6
Wate	ch online with	cattleusa. Must regi		ab J.C. Livesto bid.	ck Sales)				Due to L	.abor	Day	
JUNC	If you need assistance in marketing your cattle please call & we will be happy to discuss it with you. JUNCTION CITY, KANSAS • Barn Phone 785-238-1471 Seth Lauer 785-949-2285, Abilene											
Radio Market Reports KFRM 550 Tuess & Wed. 8:00 am KARL LANGVARDT Cell: 785-499-2945 Cell: 785-761-5814 Cell: 785-761-5813 KARL LANGVARDT Cell: 785-761-5813												

Page 23 Cut cattle feed costs; don't cut corners ment and improves drying the grazing in underuti- the value returned."

Maximize efficiency and minimize waste to help cut feed costs without impacting production.

Whether you're in an area suffering from drought or not, cattle feed cost is the single largest expense in the cow-calf sector, and prices are still on the rise. Although the future looks strong, with a recent CattleFax report predicting the gap between calf prices and cash cow costs to narrow in 2022, the current situation has producers asking, "Where can I cut?"

"Decisions made today can affect calf weaning weights this year, how quick a cow will rebreed and calve next year, and even the weight of her next year's calf," reminds N.T. Cosby, Ph.D., senior consulting nutritionist with Purina Animal Nutrition. "Producers looking for cost savings should choose strategies to save money now, without losing advantage in strong markets later.'

"Utilizing tactics to cut waste and inefficiencies when feeding cattle can have an impact on an operation's bottom line," says Cosby, "The goal is to cut costs without sacrificing performance."

Explore management strategies to help reduce cattle feed costs:

1. Maximize stored cattle feed

When cattle feed is not stored properly, it loses volume and nutritional value. Avoid shrink loss and packing issues by harvesting haylage and silage at the right moisture level. Ensure proper fermentation by storing in an anaerobic environment and utilizing inoculants.

Inside storage for hay is ideal, but when not feasible, store on a surface that allows for drainage, such as gravel, tires or railroad ties, to keep the underside of bales dry. Proper spacing between bales allows air movewhen the weather does impact bales.

Be aware of storing timelines when feeding wet byproducts. Distillers' grains and gluten must be fed within four days in summer and within a week in winter.

2. Take advantage of grazing opportunities

In areas with available pastures, a strategic grazing program can help increase your operation's carrying capacity, extend grazing days and reduce dependence on harvested and stored feed.

Design a cattle grazing program to make the most of your available forages:

Grazing programs can include strategic fencing, water placement, herding, pasture rotation and rest. forage species variation and more.

Consider strip grazing crop aftermath, like corn stalks.

Encourage cat-

lized pasture by limiting them to certain pasture sections and slowly adding and removing sections over time.

Supplements such as blocks, protein tubs or liquid supplements can promote cattle grazing in underutilized pasture or range areas, potentially increasing grazing days.

3. Monitor mineral intake

"A well-balanced mineral supplement is the cornerstone of a nutrition program that can impact reproduction, health, longevity, soundness and efficient energy utilization," Cosby emphasized.

The biggest factor affecting mineral cost is consistent intake.

"If a mineral isn't being consumed, the rancher has paid for something that is giving no return.' says Cosby. "If the mineral is over-consumed, the cost per day may exceed

rect access to the pond.

Monitor mineral intake and adjust the number of mineral feeders and the location of feeding stations to achieve your goal consumption rate.

4. Avoid hay waste

According to the University of Nebraska, feeding hay to cattle with 24hour free-choice access can result in 25-45% hav waste due to sorting, trampling on and soiling the hay. Feeding hay in smaller amounts and in well-drained areas can reduce waste. Also, research the most efficient hay rings or utilize "hay traps" that reduce access time. Operations in drier climates or range settings may consider unrolling hay or processed forages.

"The cow-calf business is more of a marathon than a sprint," shares Cosby. "Cutting extra input costs from waste and inefficiency can allow you to make your feed dollars work harder now and

keep your operation on track for long-term goals."

Visit purinamills.com or contact your local Purina® dealer for tips on cutting feed costs without cutting performance.

Purina Animal Nutrition LLC (www.purinamills.com) is a national organization serving producers, animal owners and their families through more than 4,700 local cooperatives, independent dealers and other large retailers throughout the United States. Driven to unlock the greatest potential in every animal, the company is an industry-leading innovator offering a valued portfolio of complete feeds, supplements, premixes, ingredients and specialty technologies for the livestock and lifestyle animal markets. Purina Animal Nutrition LLC is headquartered in Arden Hills, Minn. and a wholly owned subsidiary of Land O'Lakes, Inc.

pond stress in anaging drought

drought Continued combined with high temperatures can have devastating effects on fish ponds.

During a drought, pond waters can drop to dangerous levels, increasing aquatic plant growth, decreasing water quality and stressing fish, making them more vulnerable to disease and death, says Bob Pierce, University of Missouri Extension fisheries and wildlife state specialist.

The MU Extension publication "Managing Missouri Fish Ponds During an Extended Drought," developed by Pierce and retired Lincoln University aquaculture specialist Charles Hicks, is available for free download at extension.missouri.edu/g9401.

Ponds in very small watersheds or on marginal soils typically are the first to have problems as water levels decrease through seepage, evaporation and lack of runoff. Pierce says. Among the problems that can occur:

• Fish may become

stressed as they are confined to smaller volumes of water.

 Waste metabolites such as ammonia, carbon dioxide and nitrates are concentrated, which can further stress and even kill fish.

· Less dissolved oxygen is available for the fish as they and other aquatic organisms are crowded into smaller volumes of water.

• Unwanted aquatic vegetation and algae begin to grow as nutrient levels in the pond become more concentrated.

Pond water level

Drought conditions will create shallow areas that expose plants to more sunlight and encourage rapid growth. Aquatic plants can be reduced or controlled through practices such as using recommended aquatic herbicides and stocking grass carp. Texas A&M University's Aqua-Plant website at aquaplant.tamu.edu has excellent aquatic plant identification and control recommendations, Pierce says.

oxygen Drought increases the

danger of oxygen depletion in ponds. Warm water holds less dissolved oxygen than cooler water. Algae and aquatic plants become more abundant in warm water and in ponds with lower water levels. While plants produce oxygen in daylight, they consume oxygen at night and during extended cloudy periods. Also, intense sunlight can cause algal blooms to die off, which further depletes oxygen. More abundant vegetation can also cause wide swings in pH levels.

Supplemental aeration in ponds can protect fish during a drought, Pierce says. The simplest solution is an electric aerator that provides about 3/4 horsepower of efficient aeration per acre of pond.

Reducing the chance of a fish kill during drought

Pond owners can take preventive actions to reduce the chance of fish kills in drought-affected ponds.

• Keep cows and other livestock from having di-

Wading livestock will muddy the water and further stress the fish. Manure in the pond will contribute to oxygen depletion. • Do not apply aquatic herbicides to the pond

during a drought. High temperatures and reduced water volume will heighten the risk of oxygen depletion as a result of increasing plant decay.

• Take measures to thin the existing fish population, such as fishing the pond more.

Observe your pond and quickly react to changes

If possible, observe your pond daily during a drought. Timely action may save your fish or reduce treatment costs. Plan for how you will take corrective action when a problem is identified.

Contact the Missouri Department of Conservation or your local MU Extension center for additional recommendations on controlling nuisance aquatic plants, managing pond water quality and preventing a fish kill during a drought.

NCBA announces 2023 farm bill priorities

At their recent Summer Business Meeting in Reno, NCBA announced its priorities for the 2023 Farm Bill based on producer input gathered during the meeting.

Our annual meetings are the cornerstone of NC BA's grassroots policy process," said NCBA president Don Schiefelbein, a Minnesota cattleman. "Individual producers set the course for NCBA's advocacy work in Washington, D.C., and we have heard from many producers who value the animal health, voluntary conservation and disaster recovery programs in the last Farm Bill and look forward to improving those programs in the next Farm Bill

NCBA farm bill priorities include:

Protecting animal health through programs that guard against the spread of foreign animal diseases such as the National Animal Vaccine and Veterinary Countermeasures Bank, which currently houses the Foot-and-Mouth Disease vaccine. NCBA previously advocated for this vaccine bank in the last Farm Bill and producers recognize the danger that a foreign animal disease poses to the industry and the protection this bank provides.

Strengthening risk management programs that provide producers with added protection against weather events and price decline.

Promoting voluntary conservation programs that provide support for producers to implement conservation practices free from government mandates.

Supporting disaster recovery programs that help producers return to normal operations following adverse weather, attacks by predators, or extreme conditions like drought and wildfire.

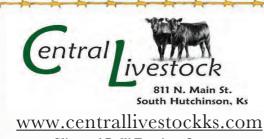
Additionally, cattle producers amended and renewed existing policy on the books on issues including cattle health, federal lands, environmental policy, trade, markets, taxes, transportation, food safety, and more. If you have any questions about the meeting or NCBA policy priorities, contact Ben Weinheimer at ben@tcfa.org or (806) 358-3681.



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Fri., Aug. 12th - Draft Horse / Mules Sale Sat., Aug. 13th - Horse & Tack Sale Tues., Aug. 16th - NO SALES Sat., Aug. 20th - Hog / Sheep / Goat Sale ALL WEIGH COWS & BULLS SELL AT THE END

Holton Livestock Exchange, Inc. 1/2 mile East of Holton, KS on 16 Highway

Livestock Auction every Tuesday at 11:00 AM

MARKET REPORT FOR TUESDAY, AUGUST 2, 2022 **RECEIPTS: 669 CATTLE** FOR FULL RESULTS, VISIT OUR WEBSITE: WWW.HOLTONLIVESTOCK.COM

STEERS	HEIFERS
3 bk char bulls ValleyFalls 273@241.00	17 blk bwf Centraila 618@185.50
4 blk Hiawatha483@206.00	10 blk Hiawatha571@180.00
19 blk Hiawatha636@195.50	13 mix Netawaka 642@177.00
15 blk bwf Soldier 739@179.50	6 blk Holton 664@176.00
7 blk red Axtell 622@179.00	12 blk red Holton 557@170.00
22 char red Netawaka 742@177.00	6 blk char Mayetta 593@169.00
57 blk Netawaka 868@176.00	12 char Netawaka 734@162.50
62 mix ValleyFalls 853@175.85	10 blk char Centralia 763@159.00
66 mix VallevFalls 794@174.25	6 blk bwf Mayetta 729@153.50
6 blk Soldier 938@164.00	19 mix PawneeCity,NE 857@149.00 16 blk Atchison 970@139.50

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Eureka Livestock Sale

P.O. Box 267 Eureka, KS 67045

620-583-5008 Office 620-583-7475

On Thursday, August 4, we had 1,120 head of cattle on a very active market.

	· · · · · · · · · · · · · · · · · · ·	
STEERS	15 bkSmX771@173.50	21 bkbwfrbf
22 bkRd589@219.00	21 blk841@173.00	
4 blk584@212.00	10 bkbwf 812@168.50	44 ChrX811@166.25
6 blk622@207.75	16 bkSmX879@167.00	31 mstly bk
11 bkbwf 645@205.50	10 ChrX 1034@158.25	
17 bkRd671@203.50		11 blk 750@162.00
11 blk 636@199.50	HEIFERS	10 bkSmX770@161.75
11 blk695@191.25	10 bkRd 620@177.50	12 bkbwfrbf
19 bkChr 703@187.00	21 bkbwf 740@177.00	673@159.00
22 bkbwf 720@184.00	14 bkChX 655@174.50	9 ChrX 671@159.00
18 bkRd706@183.00	17 bkbwf 647@174.00	10 bkbwfrbfX
9 rbfX707@177.50	9 bkCh 614@173.50	
15 bkbwf 720@177.00	5 bkbwf 704@170.00	12 mix 817@156.50
7 bkRd799@174.00	9 bkCh726@170.00	19 mix 885@154.75
8 blk819@173.75	14 bkbwf 814@169.00	8 bkSmX.877@152.50
32 ChrX824@173.75	13 RdX 797@167.50	

Butcher Cows: \$50-\$94, mostly \$70-\$90; \$2-\$3 higher, very active. Butcher Bulls: \$77-\$109, mostly \$100-\$107; \$2-\$3 higher.

витсн	ER COWS	2 blk	1185@87.00
1 blk	1720@94.00	BU	TCHER BULLS
1 blk	1615@91.00	1 blk	1960@109.00
1 bwf	1735@91.00	1 blk	1500@107.00
2 BrwnX	1220@90.50	1 blk	1745@107.00
1 bwf	1420@90.00	1 blk	1995@106.00
1 blk	1660@90.00	1 blk	1750@105.00
3 blk	1178@89.00	1 blk	2000@104.00
2 blk	1265@89.00	1 wf	2005@104.00
2 blk	1653@87.00	1 wf	2175@104.00

EARLY CONSIGNMENTS FOR AUGUST 11

340 blk bwf & few Red Ang X strs & hfrs, 650-850#, home raised, weaned April 10. Running out, hfrs open, in thin flesh. 210 mixed strs & hfrs, 675-825#, hfrs open, off the grass.

- 130 mostly blk strs, 700-850#, off the grass in thin flesh.
- 150 blk & Few Char X strs & hfrs, 600-750#, Fall calves & vac 90 blk Red Char X strs & hfrs, 500-700#, weaned & vac
- EARLY CONSIGNMENTS FOR AUGUST 18
- 125 blk Red Char X strs & hfrs, 600-800#, Fall calves

EARLY CONSIGNMENTS FOR AUGUST 25

110 blk bwf cows, 3-6 yrs, bred to Angus bulls, start calving Sept. 1. Very fancy cows.

We appreciate your business!

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

Austin Evenson- Fieldman

Mobile Cell 620-750-0222 If you have any cattle to be looked at call Ron or Austin

2595 SE Highway 54, P.O. Box 622, El Dorado, KS 67042

Market Report - Sale Date 8-4-22. 3786 head.

400-500 lb. steers, \$173-\$203; heifers, \$156-\$169; 500-600 lb. steers, \$160-\$217; heifers, \$145-\$179.50; 600-700 lb. steers, \$155-\$197.25; heifers, \$151-\$186; 700-800 lb. steers, \$157-\$187.75; heifers, \$140-\$174.50; 800-900 lb. steers, \$141-\$178.75; heifers, \$122-\$167. Trend on Calves: Steady with better kind of 5-6 wts. \$3-\$4 higher. Trend on Feeder Cattle: \$2-\$4 higher on hfrs weighing 650-850, mostly steady to firm. Butcher Cows: High dressing cows \$85-\$95; Avg. dressing cows \$70-\$80; Low dressing cows \$45-\$65. Butcher Bulls: Avg. to high dressing bulls \$64.50-\$109.50. Trend on Cows & Bulls: Mostly \$6-\$10 higher.

Some Highlights Include:

	HEIFERS		STEERS
5 blk	519@178.00	2 blk	423@203.00
40 blk	543@179.50	2 blk	510@217.00
17 blk	614@174.25	9 mix 13 mix	559@205.00 618@191.00
96 mix	631@174.75	18 blk	653@194.00
45 blk	681@176.00	24 blk	715@187.75
71 mix	708@172.00	67 blk	716@182.50
139 mix	749@174.50	63 blk	767@180.75
63 blk	785@170.50	127 blk 53 mix	823@178.75 853@173.50
65 blk	793@168.00	61 blk	912@172.50
16 blk	884@154.50	54 blk	926@169.50

Next Sale: Thursday, August 11, 11:00 AM Expecting 3500-4000 head * Special Feeder Sale:

- 3 loads mx heifers, 680lbs
- 250 mostly blk heifers, northern, spayed, 775-225lbs
- 270 mostly blk steers, 850-925lbs
- 200 mx steers, 875-925lbs
- 160 mx heifers, 750-850lbs
- 160 mx steers, 700-800lbs
- 130 blk heifers, off grass, 600-700lbs
- 35 mostly blk steers, 750-850lbs
- 200 mx heifers, 650-750lbs
- 175 mx steers & heifers, LTW, shots, 450-600lbs
- 500 mostly blk steers, 700-900lbs
- 40 steers & heifers, 600-800lbs

GO TO OUR WEBSITE FOR DAILY CONSIGNMENT UPDATES WWW.ELDORADOLIVESTOCK.COM

We welcome your consignments! If you have cattle to consign or would like additional information, please call the office at 316-320-3212

Check our website & Facebook for updated consignments: www.eldoradolivestock.com

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(620) 583-3338	(316) 452-1792	
Kyle Criger, Fieldman,	, (620) 330-3300	

Cattle Sale Every Thursday 11:00 AM

Page 24 Grass & Grain, August 9, 2022 Don't underestimate the value of early pregnancy detection

By Ross Mosteller. Meadowlark District Extension agent, livestock and natural resources

As I sat down to look at my annual "pull the bulls" date on the calendar, it got me thinking about a timely topic to write about. Every operation has a different timeline for breeding, calving, weaning, marketing... name the subject; but one thing that can be useful sooner rather than later is to know which animals are bred and when in the calving season they are expected to calve. Knowing this information early can help direct management decisions.

There are a number of reasons ranging from shortage of forage resources to marketing opportunities that proves the value in knowing when a cow is pregnant. That information can be used to identify early bred replacements or open females to remove from pasture, in order to extend the grazing season. Heifers confirmed pregnant to an AI sire likely can bring premiums. A group of yearling heifers pregnant with heifer calves would be expected to have less calving difficulty and may be worth more than those carrying males. Looking at the cull side, the cull cow market historically declines the deeper into fall aligning with the common weaning times of spring calving herds. The more cows being culled,

timely marketing. Whatever the reason, you have to check to know what the status of the females and can then make decisions with that information.

Rectal palpation is the most commonly available tool for pregnancy determination. Experienced technicians can be comfortable with distinguishing 35- to 40-day pregnancies. In the hands of a trained person, a fairly high degree of accuracy in stage of pregnancy can be determined up until 100-120 days of gestation, before the uterus descends over the pelvic rim. It is becoming more common place for bovine practitioners to offer ultrasound detection. Embrvos can be identified as early as 25 to 28 days of age, but 30 days makes a more practical lower age limit. Fetal sexing requires additional experience with ultrasound to gain higher accuracy, but is a benefit to this meth-The earliest time od. to fetal sex is around 55 days but due to variation in development, a time period of 60 to 100 days is generally targeted.

Commercial blood tests are also available to determine pregnancy status. The tests detect one of a number of pregnancy specific proteins produced by the placenta. Depending on which protein and test provider. earliest detection date varies from 28 to 30 days of gestation and proteins remain in the system up to 75 to 90 days after

calving. A disadvantage of the blood test is that since the proteins remain in the animal's body after any fetal loss occurs, a positive test indicates both if the female is OR was pregnant and could now be open.

Some embryonic and fetal loss is normally occurring, from 1 to 2% by the second trimester to term is considered normal. Mostly this loss is seen before day 30, but some cows pregnant at 30 days will not be pregnant at day 60. Although early pregnancy loss is not uncommon, and is generally not caused by the process of pregnancy checking, it does mean if performed relatively early it may need to be repeated.

ian can discuss timing and options that best fit your production situation and goals. Stage of pregnancy can be very valuable information when making decisions related to pasture management, adjusting winter feeding plans and trying to take advantage of market opportunities. Processing cattle through a working facility in the heat of summer, may not be high on your wish list of things to do, but giving pregnancy detection, especially early detection, might be worth considering. Your business will be in a better position to adapt to variation in weather and markets with detailed information on pregnancy status and stage of fetal development.

Your local veterinar-

ancer show pion Bred & Owned Balancer Female was JRPG Miss Oakley 112H owned by Justine Pope of Ravenna, Nebraska. Sired by

GGGE 3G EZ Money 209Z and born October 25, 2020, this female first earned the title of Champion Bred & Owned Senior Female. Grand Champion Balancer Cow/Calf Pair was SEPT Violet Martini F39 ET owned by Kayce Brown

of Dwight. Born September 19, 2018 and sired by BC Certified 413-1 this female first earned the title of Champion aged Cow/ Calf pair with a calf at side born December 25. 2021 sired by TJ Rebel Yell 804F ET.

Reserve Grand Champion Balancer Cow/Calf pair was MDR Hanna 003H owned by Corbin Lowe of Winfield. Sired by MDR N.H. Blackout 7412E, and born April 3, 2020 this cow first earned the title of Champion Young Cow/Calf pair with a calf at side born March 10, 2022 sired by MDR First Step 7549E.

Grand Champion Bred and Owned Balancer Cow/ Calf pair was BRAX Miss Harley H11 ET owned by Braxton Murray of Kingfisher, Oklahoma. Sired by Colburn Primo 5153 and born February 25, 2020 this female first earned the title of Champion Bred and Owned Young Cow/ Calf pair with a calf at side born April 4, 2022 sired by EGL Lifeline B101.

Grand Champion Balancer Bull was RAAB Johnny 91J owned by Alexandria Raab of Markle, Indiana. Sired by BCFG Butlers Bismarck 512Z and born September 1, 2021. this bull first earned the

the bigger the impact of **Jassic Bal 2022 AGJA** hampions selected at Crossroads

Balancer females, and 13

and sired by MDR First

Step 7549E. First earning

the title of Champion Win-

ter Yearling, she was also

crowned Grand Champion

The 2022 AGJA Crossroads Classic Balancer® shows were held July 7, 2022 in Salina. Exhibi-

tors had the pleasure of welcoming judge Clinton Laflin of Russell to evaluate and sort through 154



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Balancer bulls Reserve Grand Cham-Grand Champion Balpion Balancer Female ancer Female was T/R Empress 111J ET owned by Kyson Thiel of Kaw City, Oklahoma. This heifer was born February 27, 2021

was GRU Ms Jennifer 14J owned by Gabrielle Hammer of Wallace. Sired by Grand Plan 744G, this female was born March 1, 2021 and first earned the title of Champion Spring Yearling Heifer as well as Reserve Grand Champion

Balancer Heifer.

Balancer Heifer.

Grand Champion Bred & Owned Balancer Female was BRAX Joy J115 owned by Braxton Murray of Kingfisher, Oklahoma. Born May 3, 2021 and sired by F6 ET, this female first earned the title of Champion Intermediate Yearling and Champion Bred and **Owned Intermediate Year** ling Heifer. Reserve Grand Cham-

Realtors welcome; a 1% coop fee to any Real

tor per the terms and conditions of auction.



FRANCH SHOW	ner of the intersection of 262 Rd. and C Rd. AUCTIONEER'S NOTE: Per USDA this has a total of 77.51 AC with 70.04 AC curr in cropland. Soil types are Pawnee Clay L and Wymore Silty Clay Loam. Land is curr in production by tenant. Because the pro is currently in production with tenant farmer spection is only from the road. The owner tenant retain this years crops. Area is server Nebraska RWD #4, Seller is not aware of ability of water meter and has not requested WWW.COUNTE	ID#: 043-044-18-0-00-005.00-0 Loam Taxes: \$2269.00 For Terms, go to website. perty Listing Company or, in- COUNTRYWIDE REALTY, INC oad 785-272-8790 od by CALL: BOB: 785-224-4150 avail- Austioners New Prince	 18, title of Champion Senio Bull Calf. Reserve Grand Champion Balancer Bull was MDI Stoney Larue 1572J E' owned by Kyson Thiel of Kaw City, Oklahoma. Bor: March 1, 2021 and siree by MDR First Round Pic 9824G ET, this bull first earned the title of Champio on Senior Yearling.
Sell or Buy Cattle	By STARTI	t. NG TIME D AM	rys ys
We sold 1428 cattle August 2. Due to the heat we had a light run of calves at steady prices. Feeder steers and heifers sold steady to \$3.00 higher. Cows and bulls were \$3.00-4.00 higher.STEER CALVES116 blk/bwf strs954 @ 167.75 933 @ 167.50 67 blk/char strs8 blk/sim strs549 @ 189.0058 blk/bwf strs933 @ 167.50 916 @ 164.50STOCKER & FEEDER STEERS 26 blk strs61 mix strs929 @ 163.00 911 @ 161.00	2 blk hfrs 575 @ 154.00 1 bwf cow	1295 @ 79.50 1 blk bull 1560 @ 107 1435 @ 79.00 1 blk bull 2040 @ 111 1410 @ 78.50 1355 @ 77.00 100 @ 76.50 1550 @ 76.50 1550 @ 76.50 62 blk strs & hfrs, 6 1140 @ 76.00 200 @ 75.00 90 blk strs & hfrs, 6	
67 blk strs 731 @ 186.35 12 blk/red strs 1003 @ 149.50 4 char/blk strs 714 @ 184.00 HEIFER CALVES 7 blk strs 762 @ 183.25 1 char hfr 475 @ 163.00 11 blk strs 668 @ 181.00 2 blk hfrs 443 @ 160.00 64 blk/bwf strs 878 @ 176.50 STOCKER & FEEDER HEIFERS 124 blk/bwf strs 865 @ 176.10 5 blk/char hfrs 634 @ 171.00 2 blk strs 798 @ 175.00 109 blk/bwf hfrs 756 @ 169.75 62 blk/bwf strs 876 @ 175.00 62 blk/red hfrs 824 @ 167.75 64 blk strs 877 @ 175.00 18 char hfrs 746 @ 165.75	1 wf cow 1295 @ 84.50 1 blk cow 1 wf cow 1850 @ 84.00 1 blk cow 1 sim cow 1230 @ 81.00 1 blk cow CONSIGNMENTS FOR TUESDAY • 182 Hereford strs, 750-850 I • 50 Hereford hfrs, 700-750 lbs	1310 @ 72.50 910 @ 72.00 1595 @ 70.00 AUG. 23, 2022: bbs., off grass s., OCV'd, vacc.	-800 lbs., off grass 5-825 lbs., off grass 875-900 lbs., off grass -900 lbs., off grass
8 blk strs 773 @ 173.50 13 blk/bwf hfrs 570 @ 162.00 64 blk/bwf strs 866 @ 173.00 3 blk hfrs 633 @ 162.00 54 blk/bwf strs 887 @ 173.00 3 blk/red hfrs 728 @ 157.00 54 blk/bwf strs 631 @ 170.50 1 char hfr 800 @ 157.00 15 blk/char strs 631 @ 170.50 55 blk/red hfrs 877 @ 155.50 20 x-bred strs 792 @ 169.00 2 blk hfrs 583 @ 155.00	Above homeraised from Brain • 600 blk steers, 700-750 lbs. WATCH OUR AUC LIVE ON DVAuctio	 off grass 200 blk steers, 70 420 blk steers, 85 130 blk steers, 87 245 blk red hfrs, 8 	800-850 lbs., off grass
Our CONSIGNMENTS can now be viewed after 12 FOR INFORMATION OR ESTIMATES: REZAC BARN ST. MARYS, 785-437-2785 LELAND E DENNIS REZAC ST. MARYS, 785-437-6349 LYNN REZ	BAILEY TOPEKA, 785-215-1002		o the online subscription

Rd. (going west from city park) to C Rd., South 1 mile to 262 Rd. Property lays at the northwest cor-

DENNIS' CELL PHONE 785-456-4187 KENNETH REZAC ST. MARYS 785-458-9071

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Toll Free Number.....1-800-531-1676 Website: www.rezaclivestock.com

AUCTIONEERS: DENNIS REZAC & REX ARB

MELVERN, 785-224-6765

Company, Inc.