

Kansas Hay Market Report

Proud sponsors of the Kansas Hay Market Report are Bestifor and Yoder Seed Cleaning.

DUE TO THE 4TH OF JULY HOLIDAY, THE NEXT REPORT WILL BE PUBLISHED JULY 11TH, so there will not be a hay report in the July 11 issue of Grass & Grain.

Compared to the last report demand remains good, trade activity slow to moderate, and prices remained mostly steady. There has been a softening undertone to the market as producers continue to swath and bale hay across all the regions. According to the U.S. Drought Monitor for June 22nd, western portions of the High Plains received above normal rainfall and drought condition improvements, while the eastern portions again saw degradation in conditions. The categorical percent area for abnormally dry conditions (D0) increased to 16%, moderate drought (D1) increased to 22%, severe drought (D2) increased to 19%, extreme drought (D3) remained near 30%, and exceptional drought (D4) decreased to 7%.

Southwest Kansas

Dairy alfalfa steady; grinding alfalfa, ground and delivered steady to 5.00 lower, movement slow. Alfalfa: Dairy, 1.40-1.50/point RFV. Good, Stock or Dry Cow 300.00-315.00. Grinding alfalfa, large rounds, 290.00-300.00, new crop 295.00-305.00, large square 3x4's and 4x4's 300.00-310.00, new crop 300.00-310.00. Ground and delivered locally to feed lots and dairies 335.00-350.00, new crop 340.00-355.00. Grass Hay: Bluestem: none reported. Corn stalks, ground and delivered 180.00-195.00. The week of 6/18-6/24, 10,780T of grinding alfalfa and 325T of dairy alfalfa was reported bought or sold.

South Central Kansas

Dairy alfalfa steady; ground and delivered, alfalfa pellets, and grinding alfalfa mostly steady to 5.00 lower, movement slow. Alfalfa: horse, small squares 325.00/ton. Dairy 1.40-1.50/point RFV. Good, Stock cow, 295.00-305.00. Fair/good grinding alfalfa, large rounds 275.00-290.00 de-

livered, new crop 270.00-285.00 delivered, 3x4 and 4x4's 285.00-295.00 delivered, new crop 285.00-290.00 delivered. Alfalfa ground and delivered 315.00-325.00; Alfalfa/Soybean: ground and delivered 295.00-310.00. Alfalfa pellets: Sun cured 15 pct protein 320.00-330.00, 17 pct protein 345.00-360.00, Dehydrated 17 pct 420.00-425.00. Grass hay: Bluestem, large rounds 130.00-140.00; Brome, large rounds 120.00-130.00; Rye grass, new crop 3x4's 235.00-245.00. The week of 6/18-6/24, 6,992.30T of grinding alfalfa and 0T of dairy alfalfa was reported bought or sold.

Southeast Kansas

Dairy alfalfa, grinding alfalfa steady, grass hay steady, movement slow. Alfalfa: horse or goat, none reported. Dairy 1.40-1.50/point RFV. Good, stock cow 260.00-270.00. Fair/good grinding alfalfa, large rounds none reported, large square 3x4 275.00-285.00; Grass hay: Bluestem, large square 3x4 165.00-175.00, large round old crop 140.00-155.00. Brome, large square 185.00-195.00 delivered. The week of 6/18-6/24, 848T of grass hay was reported bought or sold.

Northwest Kansas

Dairy alfalfa and grinding alfalfa steady, movement slow. Alfalfa: Horse or goat, small squares 300.00-320.00, 3x3 squares 300.00 new crop 1st cutting. Dairy, Premium/Supreme 1.40-1.50/point RFV. Stock cow, fair/good 295.00-300.00. Fair/good grinding alfalfa, large square 3x4's 290.00-305.00. Alfalfa ground and delivered 280.00-300.00.

North Central-Northeast Kansas

Dairy alfalfa, ground/delivered, grinding alfalfa steady, and bluestem grass hay steady, movement slow. Alfalfa: Dairy 1.40-1.50/point RFV; Horse hay, premium small squares, 12.00/bale, 3x4's 290.00-300.00; Stock Cow 3x4's 230.00-240.00, new crop 280.00-300.00; Fair/good, grinding alfalfa, large rounds 250.00-260.00, large square 3x4's 250.00-275.00, new crop 290.00-300.00 F.O.B.; Alfalfa ground and delivered 290.00-300.00; Grass hay: Bluestem, small squares new crop 8.00-9.00/bale, large 3x4 squares 150.00-160.00, good large rounds 140.00-150.00. Brome: large rounds, 140.00-150.00. Sudan: large round 130.00-150.00. Wheat straw: large squares 120.00-130.00. Corn stalks: large squares 135.00-145.00 delivered. The week of 6/18-6/24, 392 T of grinding alfalfa and 125T of dairy alfalfa was reported bought or sold.

Prices above reflect the average price. There could be prices higher and lower than those published.

***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.

How to promote good gut health

By Lisa Moser, K-State Research and Extension news service

Anyone who has experienced too much gas in their belly knows how uncomfortable that can be. In cattle, digestion troubles can be problematic to their overall health, said Kansas State University beef cattle nutritionist Phillip Lancaster on a recent Beef Cattle Institute Cattle Chat podcast.

"The cow's stomach is divided into four chambers — the rumen, reticulum, omasum and abomasum — and the one we are usually focused on when speaking about maintaining gut health is the rumen," Lancaster said.

He said the keys to good gut health for cattle are striving to feed a diet that leads to the proper pH balance in the rumen, thereby keeping acidosis from occurring; and the curating of healthy microbial growth in the rumen, which comes from cattle chewing their cud.

Along with rumen health, Lancaster said it is important for that diet to promote proper digestion throughout the lower gastrointestinal tract.

"Cattle can experience adverse effects if there is a foreign pathogen that

interrupts the normal microflora anywhere in the GI tract," Lancaster said. He gave the example of diarrhea as a symptom that happens when the microflora is out of balance.

One of the goals of feeding cattle a proper diet that promotes good gut health is to keep the lining of the intestinal tract from getting damaged.

"If there is damage to the gut wall, bacteria can move into the bloodstream and cause abscesses to develop in the liver," Lancaster said.

He added that cattle that consume diets high in starch, which typically happens in the finishing phase, have a limited capacity to absorb that in the small intestine resulting in hindgut acidosis that could lead to ulcers developing.

Lancaster and his research team at the Beef Cattle Institute are studying places in the GI tract where microbial fermentation is occurring.

"Our goal is to develop some interventions to prevent liver abscesses from occurring," he said.

To hear the full discussion, listen to the Cattle Chat podcast online or through your preferred streaming platform.



DON'T WAIT
PLACE A CLASSIFIED AD
ONLINE TODAY AT
GRASSANDGRAIN.COM

Subscribe Too!

Yoder Seed Cleaning

2 Large Capacity Mobile Seed Cleaners
with Length Graders
1 for Wheat - 1 for Cover Crops
Easy clean out between jobs
Certified and Insured

620-694-9111

Freeman Yoder Arlington, KS



Producers of Alfalfa, Prairie Hay, Teff Grass

Buying all types of Alfalfa, Grass, & Straw year round.
Purchasing hay in field or delivered to our facility.
Trucking available.

bestifor.com | 785.527.2450 | info@bestifor.com

2006 Case 445 Skid Steer

- Very sound running 4 cylinder diesel engine; 3,915 hours on the meter, hydrostatic transmission; OROPS.
- Auxiliary hydraulics and hydraulic coupler - Equipped with Case 73" bucket and bolt-on cutting blade, showing very little wear.
- Two new hydraulic hoses and no evidence of hydraulic leaks.
- New cab and rear engine compartment hood struts.
- All safety systems are functional and working.
- Equipped with cab back-up mirror.

BRAND NEW TIRES purchased in late April '23 - complete service, including oil and filter, less than four hours of use on this oil change.

This heavy duty machine is ready to go to work!!



\$25,000



785-633-8841



Place a classified ad or subscribe online at
grassandgrain.com

PUBLIC PERSONAL PROPERTY AUCTION

SATURDAY, JULY 8, 2023 - 10:00 AM
Guns & Ammo starting @ 10:00 AM
1212 Schwarz Rd., LAWRENCE, KANSAS 66049

GUNS, AMMO, SCOPES & KNIVES: 40 firearms including: More than half are 1911 style: *Hand Guns:* Walther, PPK 9m; Colt MK IV Series 80, 45; Ruger SR 1911, 45; Ruger, Mark IV, 22 LR; Ruger, Mark IV, 22LR, Ruger, Mark IV, 22LR, **Wilson Combat, Protector, 45; Nighthawk Custom, Protector II, 45; Nighthawk Custom, Falcon, 45; Nighthawk Custom, Falcon III, 45; Nighthawk Custom, Dominator, 45; Ruger, Security VI, 357; 2 x Ruger, Mark I, 22 LR; Ruger, LC9S, with red dot, 9m; Colt 32; Sig Sauer Platinum, 45; Sig Sauer, 45; Para, Elite Commander Elite, 45; Sig Sauer, 22 LR; Colt, Rail Gun, 45; Red Jacket, 45; Para, Pro Custom, 45; Connecticut Valley Arms, blk powder, 45; Baretta, M60 92A-1 CO2 air gun; Ruger, 22 Charger w/tri-pod. **Long Guns:** Benelli, Ethos 12 ga; Hercules, 12 ga, dbl barrel; **Needham Conversion, 58 cal; J Stevens A&T, 32 long single shot;** Jukar, blk powder 45; Sturm Ruger mini 30, 7.62; Marlin, limited model 6084, 22LR; Browning, Light 12, 12 ga; **Browning over & under, 12 ga;** Mossberg 500 w/rail sight; Riverside 12 ga. single; **1938 Erma Erfurt Mauser, 22 LR training;** Springfield, 12 ga., (nice); Browning, Gold Hunter, 12 ga.; Browning, 22 LR w/scope. **OVER HALF OF GUNS ARE NEW IN BOX!**
AMMO: 5,000+ rounds: 22 LR; 7.63x39; 223; 5.56; .308; 30-06; 300 Win; 12 ga; 38; 44 Mag; 380; 45; 9M & more! **SCOPES:** 2-Leupold 6 - 18X40; Leupold 102333K; Leupold X185839; Ausprey, 3-12 X 50; Leupold range finder; Tru laser/light combo; Burreis Fast Fire 2. **GUN MISC:** 2 x Titan, gun safes; 20+ hard & soft gun cases; AR-15 parts, 1911 parts, many misc parts, books, many, many ammo. mags., metal & plastic ammo boxes, holsters, pistol cases. **KNIVES:** NorMart fillet; KA-Bar; CutCo fillet; NRA fold; Schrade CH& fold; Buck 112 fold; NRA Stoneriver; Sandrin, fold. **FRIDGE, TOOLS, FURNITURE, HOUSEHOLD & MISC:** Quality, name brand hand tools.
Quality name brand items throughout. Very Clean. Many, many tools & misc. not listed.
GUNS ON SITE DAY OF AUCTION ONLY. SECURITY ON SITE. ATF RULES APPLY.
TERMS: CASH, GOOD CHECK & CREDIT CARDS W/PHOTO ID
MRS. BOB (Joyce) SCHAFFER**

For complete List & pictures go to: www.kansasauctions.net/edgecomb

EDGECOMB AUCTIONS
785-594-3507 (Home Evenings); 785-331-7753 (Mobile)
www.kansasauctions.net/edgecomb * www.kansasauctioneers.com

SANTEE STEEL

Serving Clay, Cloud, Dickinson, Geary, Marshall, Morris, Ottawa, Pottawatomie, Republic, Riley, Saline, Wabaunsee, & Washington counties

LOCAL BOYS - A FULL 3 YEAR WARRANTY.
WE ARE NOT FROM OUT OF STATE.

DON'T WAIT TILL FALL TO ORDER YOUR BUILDING - WE MAY GET BOOKED UP

WE SERVICE OUR WARRANTIES, IF THERE IS A PROBLEM.
LIST OF REFERENCES TO PROVE IT.

POST FRAMED POLE BARNS AND STUD FRAMED SHOP BLDGS FULLY FINISHED.

SHOP HOUSES, IMPLEMENT BLDGS, HAY BARNES & SO ON.

GIVE CARL A CALL TODAY:
785-370-3189

COPIES OF GRASS & GRAIN

Now In TOPEKA and CLAY CENTER

Brickhouse Antiques; - TOPEKA, KS
- 3711 SW Burlingame Rd. (just off 1-470) -



The Feed Shed!
Clay Center, KS
- 318 Lincoln Ave. -

The Store;
Leonardville, KS
- 104 E Barton Rd. -

Dara's Fast Lane;
Manhattan, KS
- 5321 Tuttle Creek Blvd. -
- 8811 US-24 -
- 1132 Pillsbury Dr. -

Copies are also available at these businesses:

Bluestem Farm & Ranch; 2611 W. HWY 50 - Emporia, KS
Pioneer Farm & Ranch; 427 NE 14th - Abilene, KS

Or stop by the Grass & Grain offices:
- 1531 Yuma St., Manhattan, KS -

Office Hours: Mon.-Fri., 8:30 am-4 pm

K-State weed expert shares tips for combating common problems in pastures

By Pat Melgares, K-State Research and Extension news service

In rural America, talk about horsetails in a field conjures thoughts of farmhands in saddles, working cattle or checking on emerging crops.

When Kansas State University weed management specialist Sarah Lancaster gets questions about horsetails, however, the inquiry is probably not about four-legged farm animals.

"I like to call horsetails the dinosaurs of the plant world," Lancaster said. "They're a weed species that has literally been around since the times of the dinosaurs. That, in and of itself, should tell us why I get questions about it. They're pretty tough and they're very difficult to manage."

Horsetail, also called mare's tail, is a deep-rooted, invasive weed that spreads quickly, forming a dense carpet of foliage that crowds out more desirable plants, such as pasture grass.

"They look a lot like asparagus, actually," Lancaster said. "They reproduce by spores, not seeds; they're just a very differ-

ent sort of plant. Many of the go-to herbicides don't work on them."

Lancaster said some past research studies indicate that 2,4-D or MCPA – a phenoxy herbicide similar to 2,4-D – can be effective in suppressing horsetail weeds. Newer studies report that picloram and metsulfuron may be helpful in reducing horsetail.

"But," Lancaster said, "they're going to come back, and so it's going to take repeated herbicide applications in order to fully control them with chemistry."

Research from Canada is uncovering other potential herbicide options, Lancaster said, "but there are not a lot of great herbicide options out there."

Horsetails belong to the genus known as Equisetum, which means "living fossil." Plants in that category tend to be found in wet areas, "So if you're struggling with them in a cropping situation, one thing to think about is water management," Lancaster said.

"Fortunately, we don't find horsetail in production fields a lot," she said. "Usually they are found in

areas where drainage is poor and water stands for large parts of the year."

For questions or to confirm whether a plant is horsetail or not, Lancaster is available by email, slancaster@ksu.edu.

Poison Hemlock and Goatgrass

Lancaster said she also routinely receives questions about poison hemlock and goatgrass this time of year.

Poison hemlock is – at its name suggests – highly poisonous. It is highly toxic to sheep, cattle, swine, horses and many other domestic animals, as well as humans. Hemlock "looks a lot like wild carrots," Lancaster said, including a basal rosette and "lacy-looking leaves."

"Poison hemlock will have red speckles on the stem once it starts to bolt," Lancaster said. "If it's in a pasture, you need to take care of it."

Instinctively, she adds, cattle know to avoid poison hemlock based on having been around it: "So generally speaking, we don't panic too much if we see poison hemlock, but if you're someone who brings in cattle from an-

other state or desirable forage is not available, it is more important to get rid of it or prevent cattle grazing in those areas."

2,4-D and glyphosate products are effective on poison hemlock, Lancaster said.

Goatgrass is an ancestor of the red winter wheat varieties grown in Kansas, which means it's particularly challenging to control in wheat fields and even in pastures, according to Lancaster.

Healthy wheat stands often out-compete jointed goatgrass, but drought through much of Kansas has provided an opportunity for jointed goatgrass to win some of those battles.

Lancaster said CoAXium wheat varieties – a production system that capitalizes on herbicide tolerant wheat – are best for controlling jointed goatgrass.

More information on weed management is available in the eUpdate newsletter, published weekly by K-State's Department of Agronomy, and from local Extension offices in Kansas.

Bill introduced to increase oversight of foreign purchases of ag land

Senate Ag Committee chairwoman Debbie Stabenow (D-MI) and Sen. Joni Ernst (R-IA) recently introduced the Foreign Agricultural Restrictions to Maintain Local Agriculture and National Defense (FARMLAND) Act. The legislation, which is similar to bills previously filed by Rep. Frank Lucas (R-OK) and others, would add the Secretary of Agriculture and the Commissioner of the Food and Drug Administration to the Committee on Foreign Investment in the U.S. (CFIUS), an interagency committee at the Department of the Treasury authorized to review certain transactions involving foreign investment in the United States and certain real estate transactions by foreign persons, in order to determine the effect of such transactions on the national security of the United States. Currently, the voting members of CFIUS include the secretaries of Treasury, State, Defense, Homeland Security, Commerce and Energy, the Attorney General, the U.S. Trade Representative and the Director of the White House Office of Science and Technology Policy.

The FARMLAND Act also would expand the authority of CFIUS to better consider ag needs when it decides if a purchase would create national security risk, require it to consider retroactive divestment of real estate and require it to review all ag land purchases in the past three years that exceeded 320 acres or \$5 million.

In addition, the House of Representatives has taken other action to limit foreign ownership of agricultural properties including an amendment by Rep. Dan Newhouse (R-WA) included in the recently passed House agriculture appropriations bill to prohibit the purchase of agricultural land in the U.S. by companies owned, in full or in part, by China, Russia, North Korea or Iran. Stand-alone bills have been filed in the House and the Senate to do the same.

Rep. Beth Van Duyne (R-TX) also filed a bill to levy a 60 percent excise tax on U.S. land purchases by citizens of China, Russia, North Korea or Iran. That bill was included as an amendment to a broad tax package recently approved by the House Ways and Means Committee.



Dal Porto Blackjack A24 won grand champion steer at the 2023 Kansas Junior Angus Association Preview Show, June 3-4 in Hutchinson. Eli Atkisson, Stockton, owns the April 2022 son of PVF Blacklist 7077. Austin Vieselmeyer, Amherst, Colo., evaluated the 108 entries. Photo by Jeff Mafi, American Angus Association



Backhus Karat 202 won reserve grand champion steer at the 2023 Kansas Junior Angus Association Preview Show, June 3-4 in Hutchinson. Mileah Backhus, Russell, owns the May 2022 son of SCC SCH 24 Karat 838. Photo by Jeff Mafi, American Angus Association



Checkerhill Saras Dream 180 won third overall owned champion female at the 2023 Kansas Junior Angus Association Preview Show, June 3-4 in Hutchinson. Cohen Navinsky, Easton, owns the November 2021 daughter of Silveiras Style 9303. She earlier won senior champion. Photo by Jeff Mafi, American Angus Association



K-STATE VETERINARIANS

Helping livestock producers reach their health and production goals while teaching the next generation of veterinarians.



Dr. Shaun Huser, livestock clinician, works alongside students, residents and producers on a local field visit.

ON-FARM *services*

- Herd-health programs
- Calf processing
- Breeding soundness exams
- Pregnancy diagnosis
- Reproductive services

HOSPITAL *services*

- Advanced diagnostics
- Lameness evaluation
- Specialty care
- Surgery
- Neonatal intensive care



Veterinary Health Center
MANHATTAN, KANSAS
Livestock Services

Call us today to schedule an appointment! 785-532-5700
24/7 Emergency care

1800 Denison Ave. • Manhattan, Kansas email: livestockservices@vet.k-state.edu www.ksvhc.org   

CLASSIFIEDS

CLASSIFIED AD DEADLINE IS 10:00 A.M. FRIDAY

RATES AND DISCOUNTS

CLASSIFICATIONS

Although complete name, address and phone number need not appear in your ad, we must have this information for our records.

Name: _____ Phone #: _____

Address: _____ City: _____ State: _____ Zip: _____

TIPS: Phone numbers & hyphenated words count as one word. Words separated by a / count as two.



WRITE YOUR AD HERE

FIGURE YOUR COST HERE:

RATE: 70¢ a word.

Number of words: _____ @ 70¢ each

Cost for one week: _____

Multiply one-week cost times number of weeks you want ad to run.

Run ad _____ consecutive weeks.

CLASSIFICATION: _____

Cost for _____ weeks: _____

DISCOUNTS: (For PRE-PAID orders only)

deduct 10% if ad runs 2 or 3 weeks;
deduct 25% if ad runs 4 weeks.

Less discounts: _____

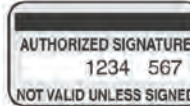
TOTAL: \$ _____

PAY WITH (PLEASE CIRCLE ONE):

CHECK MASTERCARD VISA DISCOVER

Card No. _____ Exp. Date _____

V-Code _____ (required) last 3 digits (see sample: 567) located on the back of your credit card on the signature panel.



Signature: _____

CATTLE	GOAT
SWINE	SHEEP
HORSES	POULTRY
FERTILIZER	TRAILERS
FEED & SEED	MACHINERY
AUTOMOTIVE	EMPLOYMENT
REAL ESTATE	ANTIQUES
SERVICES	PASTURE
IRRIGATION	WANTED
HARVESTING	PETS
LIVESTOCK OTHER	
LIVESTOCK EQUIPMENT	
BUILDINGS-BUILDING MATERIALS	
BINS - DRYERS - VACS	
MOBILE HOMES	
SPRAY EQUIPMENT	
BUSINESS OPPORTUNITIES	
WELDING	
MISCELLANEOUS	

REMINDERS

- Please notify us of any errors at once. We cannot be responsible beyond the first insertion.
- NO REFUNDS!
- BY PHONE: Ads not accompanied by payment have \$1.00 billing charge added, and discounts are not available.



Four Ways To Place Your Ad
CALL: 877-537-3816 TOLL-FREE OR 785-539-7558
MAIL TO: AG PRESS, Box 1009, Manhattan, Kansas 66505
FAX: 785-539-2679 ONLINE: www.grassandgrain.com



CATTLE
TWO YEAR OLD SIMANGUS bulls for sale. Reasonable priced. TO Ranch. 785-747-6554

ANGUS BULLS
Yearling to 2 year olds
Performance Data Available
Good Maternal Traits
Fertility Tested
Continuously raising Angus cattle for 74 years.
Vering Angus
Greg Vering
Marysville, KS
785-562-7164 Cell
785-562-3988 Home

ANGUS & SIMMENTAL-ANGUS BULLS



- Priced for the commercial cattleman
- Yearlings & 2-year olds w/ calving ease and growth
- Excellent selection w/ volume discounts
- Performance data available
- Good maternal traits

HUNINGHAKE ANGUS
Frankfort, KS
Leo Huninghake
Home: 785-292-4537
Cell: 785-556-2648

RED & BLACK ANGUS BULLS



- ★ Yearling & 18 Month Old Bulls
- ★ Calving Ease with Great Growth
- ★ Performance Data Available
- ★ Good Maternal Traits & Great Disposition
- ★ Reasonable Prices
- ★ Bring this Ad - Receive \$50 Discount


Randy Huninghake
Frankfort, KS
785-556-0319 Cell
785-292-6019 Home

CATTLE
SPRINGHILL HEREFORDS
Home of the Round Barn



FOR SALE PRIVATE TREATY Service-Age Bulls
Calving Ease • Performance Efficient • Docile
Dave Stump
785-556-0124
Dan Schmidt
785-562-6685
Blue Rapids, KS
Visit us at
SpringhillHerefords.com
A Gold TPR Breeder

CATTLE
HARMS



Angus, Red Angus & Charolais Bulls For Sale

- Over 250 18 month old & Spring yearling bulls available
- Your Private Treaty Headquarters. Over 25 years experience in Private Treaty & Sight-Unseen Sales. You won't be choosing from bulls that "didn't make the sale" or were "caught" in the auction.
- Our goal is to get the right bull to the right herd every time.
- See our display ad in this issue.
- Videos, data, and catalog available on our website. Please check for updates throughout the Spring.
- Genomic enhanced EPD's on every bull in all three breeds.

It's time to come home to...
HARMS PLAINVIEW RANCH
Mark & Kim Harms
2528 250th Street
Lincolnton, KS 66858
Email: hprbulls@tctelco.net
www.HARMSRANCH.COM
620-924-5544
Mark Cell: 620-382-6388
Kim's Cell: 620-382-5373

CATTLE
HEREFORD BULLS
Good bulls with balanced EPD's, practical development, good disposition, & eye appeal.
Oleen Cattle Co.
Falun, KS
oleencattleco.com
GLENN CHUCK
785-826-0870 785-452-2961
BRANDON 785-452-8148

CATTLE
For Sale Private Treaty:
REGISTERED ANGUS FEMALES
HOLTON, KANSAS
785-845-5272 • 785-817-2328
www.rinkescattle.com
rinkescattle@gmail.com

CATTLE
Bik Angus & Optimizer Bull offering for 2023.
Low birth weights, high performance breeding.
From the Angus blood lines of Sydgen Enhance and Basin Payweight. The Sakers blood lines of GGT Heavy Hitter. Prices start at \$2,500.
Contact D.R. Katzenmeier at drkatzenmeier47@gmail.com or 785-643-8656

CATTLE
For Sale Private Treaty:
REGISTERED ANGUS BULLS
Sired by:
Growth Fund, Wall Street, Exclusive 316, MVP
HOLTON, KANSAS
785-845-5272 • 785-817-2328
www.rinkescattle.com
rinkescattle@gmail.com

WOLF CREEK ANGUS RANCH



19 ANGUS BULLS Available Now by Private Treaty

FEATURED SIRES:
Hoover Dam, Dually, Compass, Legendary

- Performance Tested
- Fertility Tested
- Fully Guaranteed
- Free Delivery in KS & NE
- Volume Discounts

See Photos, Prices, & Performance Info at:
www.WolfCreekAngus.com
LURAY, KANSAS
785-698-2225

SWINE
SWINE EQUIPMENT
Buildings — Ventilation
Flooring — Feeders
Waterers — Heaters
Crates — Nursery Equip.
K & N Swine Systems
RICK HENRY
785-336-2130
SENECA, KANSAS

HORSES
BUYER FOR ALL TYPES OF HORSES. Call Charlie, 785-556-5740.

LIVESTOCK EQUIPMENT
SEMEN STORAGE TANK for sale. MVE SC 33/26. Good condition. Nitrogen filled 5/24. \$300. Phone 316-227-0914.

HOLD 'EM FENCE Company
barbed wire, welded continuous fence, pipe, custom tubs, gates, alleyways. Cell 785-313-4552, http://www.holdemfence.com

TIRE GROUND LEVEL MINERAL FEEDERS. CLEAN CUT TRUCK TIRE SIDE WALLS FOR SILAGE COVER.
endurobrandlifestock.com
785-231-8397

Blue Valley Trailers



TITAN WEST INC
Livestock Handling Equipment
See inventory at:
bluevalleytrailers.com
785-363-2224
Waterville, Kansas

TaskMaster



Making tough jobs easier
Luco Mfg. Co

- HYDRAULIC CHUTES
- WORKING CIRCLES
- CAKE FEEDERS
- CONTINUOUS FENCING
- PANELS & GATES

See us at www.lucoinc.com
Or call toll free:
1-888-816-6707
PO Box 385
Strong City, KS 66869

FEED & SEED
2022 ALFALFA, 3RD Cutting, 4x5 round, \$225/ ton. 785-447-2136

ALFALFA PRAIRIE HAY BROME
Pick up or Delivery
Small, 3x3x8, & 4x4x8 squares
Waechter Hay & Grain Inc.
John Waechter - Emporia, KS
800-835-0260 / 620-343-0298
www.waechterhaygrain.com

FEYH FARM SEED CO
Alma, Kansas
Native Grass Seed
Wildflowers
Smooth Brome Grass
Erosion Control Products
Cover Crop Seed
866-765-3415
NativeSeed@Kansas.net
www.FeyhFarmSeed.com

WANTED DAMAGED GRAIN
We pay top dollar for damaged grain. Trucks and vac's available. Immediate response anywhere.
Pruess Elevator, Inc
1-800-828-6642

REAL ESTATE
Looking for that special place in the country - to buy or sell?
Call
Dolly Anderson, Broker
G&A Real Estate, Inc.
785-532-8801
Manhattan, Kansas
dolly@gandarealestate.com

FARM & RANCH
Land For Sale
Rice Co. - 1310 12th Rd. - Commercial/ Agriculture property, office space, living quarters, truck scale, 35 acres. Call Chris, 785-493-2476
Saline Co. - 105 acres +/- mix of crop land and pasture. Large pond near Brookville Road and I-70. Call Chris, 785-493-2476
Saline Co. - 150.6 acre m/l with 109 acres crop land, 35 acres native grass and the balance waterways located Northwest of Glendale. Call Chris, 785-493-2476
Farm & Ranch Division Of:
COLDWELL BANKER APW REALTORS*
631 E. Crawford St.
Salina, KS 67401
785-827-3641
cbsalina.com

place a classified ad or subscribe online to **GRASS & GRAIN**
grassandgrain.com

HORIZON FARM & RANCH REALTY, LLC
1-888-825-1199 // www.horizonfarmranch.com


UPCOMING AUCTIONS
*270 Ac Auction Offered in 3 Tracts, Great River Bottom Tillable & Pasture, July 25, 2023, Lincoln, KS
*45 Ac Auction Offered in 2 Tracts, Productive Tillable & Tract with Morton Building, July 27, 2023, Hesston, KS

AG LAND
*New Listing! 80 Ac +/- Tillable/CRP, Build Site on Blacktop S. of Abilene. Call Samantha! Views! Call Ray!
*7 Ac +/- w/ Stone House off of N. Red Rd. Geary County.
*40 Ac +/- Great Development/Building Site @ Junction City.
*2374 Milo Rd., Abilene, KS. 4 bed/2 bath & 45 Ac +/-, Nice Morton Building, Horse Barn, Fenced for Livestock!
*1131 4th Rd., Longford, KS. Home, Nice Shop, 4 Ac +/-, UNDER CONTRACT

COMMERCIAL
*Large Shop/Warehouse & Mini-Storage @ Solomon
*Business Building in Clifton, KS.

HORIZON HOMES
*New Listing! 626 Sunset Rd., Delphos, KS. Great Stone House w/ Shop & Pans, Amazing Views! Call Ray!
*40 Ac +/- Great Development/Building Site @ Junction City.
*2374 Milo Rd., Abilene, KS. 4 bed/2 bath & 45 Ac +/-, Nice Morton Building, Horse Barn, Fenced for Livestock!
*1131 4th Rd., Longford, KS. Home, Nice Shop, 4 Ac +/-, UNDER CONTRACT

Nelson Angus Farms



We have a greater selection of AI-sired bulls than ever before.
Same Great Cows
Now Offering...
SimAngus & Angus Bulls

20+ Years of AI-Sired Genetics
Semen Tested, ready to go!

You have to come see these bulls!

Private treaty sales year-round

Nelson Angus Farms
Leomondale, Kansas
Mike: 785-565-9477
Alan: 785-770-7054
Raymond: 785-485-2378
www.nelsonangusfarms.com • nelsonangusfarms@hotmail.com

Tell them you saw it in Grass & Grain!

Featured Agent
Samantha Swearingen
Area: Central Kansas
Focus: Residential/Ag/Hunting Land
Contact: (785) 577-9878



EMPLOYMENT

ILS, a diverse cattle-feeding company, is seeking a dynamic and talented individual to join our team as a Risk Management Associate.

In this role, you will be responsible for working with customers on marketing strategies and providing excellent customer service. While commodity broker experience is not necessary, experience in the cattle/grain industry is highly desirable.

Responsibilities:
Develop and maintain a portfolio of cattle industry clients interested in managing their commodity price risks.

Requirements:
Bachelor's degree in agriculture, finance, or a related field. Knowledge of risk management strategies is a plus. Understanding of regulatory requirements in the commodities and cattle industry is beneficial.

ILS offers a competitive salary commensurate with experience, along with a comprehensive benefits package, including health insurance, retirement plan, and opportunities for professional development.

The successful candidates for this position must be able to pass post offer employment testing. EOE

Qualified candidates may apply online at:
www.ilsbeef.com/jobs

In person at:
2006 Broadway Ave.
Great Bend, KS

Or call: 620-793-9200

Or email resume to:
jobs@ilsbeef.com

BUILDINGS / BLDG MTL.

SMITH POSTYARD
Hedge Post
Delivery Available
JEFF SMITH
620-496-8956

Metal Panels & Accessories

THE VALUE LEADER. WE WON'T BE UNDERSOLD CALL FOR CURRENT METAL PRICING
• DELIVERY AVAILABLE •
WESTERN METAL
Best Service
Louisburg, Kansas
1-800-489-4100

PETS

TWO-YEAR-OLD SPAYED female Catahoula dog. Very friendly. Free to good home. Shots up to date. Farm dog. 785-409-5051.

FREE KITTEN! Raised around farm animals and very friendly. Please call Mindy at 620-960-3958.

PUREBRED BLUE HEELER puppies for sale. 785-630-0711

PUREBRED RAT TERRIER puppies. Two adults for sale also. For detailed info call 785-643-3210.

WANTED

WANT TO BUY SALVAGE and non-running ATVs, snowmobiles, jet skis, and dirt bikes. Any condition, cash paid, will pick up. 402-469-2002.

WANT TO BUY:
Wood Wheel Farm
Wagons, Anvils, Steel
Wheels, Corn Shellers,
Forges, Any Farm
Primitives.
785-488-5150

MISCELLANEOUS

LIKE NEW, QUEEN SIZE, Nectar brand bed frame for sale. Only used for a few months, in great shape. Frame is disassembled for easy transport, all parts zip up inside the headboard. Originally \$700 frame, asking \$350. Located in Riley, KS, pick up only. Text 785-307-9190 for pictures and dimensions.

What to expect from fungicide applications to corn

By David Hallauer, Meadowlark District Extension agent, crops and soils/horticulture
Most years at this time, our corn crop looks good, but precipitation prospects start to decline. At the same time, we can see high humidity during the day and even heavy dew overnight that keep the crop's canopy just wet enough to provide the potential for disease pressure. It can make our decision to apply a fungicide – or not – more difficult than we'd like.

If you're on the fence about a fungicide application, start with a look at hybrid disease susceptibility as well as the

previous crop and weather outlook. Southern rust (confirmed thus far only in a few counties in Georgia-Florida...) likes nights above 80 degrees and high humidity. Tar spot likes cooler temperatures and prolonged leaf wetness. Gray leaf spot and Tar spot both survive on corn residue, making previous crop important, whereas Southern Rust has to blow in each year. If you scout knowing these factors, it can make the decision-making process a little easier. For example: if a susceptible hybrid is showing disease symptoms on the third ear below the ear or above on 50 percent of the plants,

it's probably good to at least consider a fungicide, whereas many resistant hybrids may not require anything at all (depending on disease...).

If you do elect to apply, do so in as timely a manner as possible. Tassel to R1 applications are typically the 'sweet spot,' but make timing decisions in collaboration with scouting. If little to no disease is present, waiting until R1 might be worth it. Fungicide efficacy will begin to decline in three to four weeks, with later applications providing better potential to protect against later season pressure (some data suggests we might even be able to go

later...)

Will it pay? University of Illinois corn fungicide trials have shown that if at least five percent of the ear leaf was affected by disease at season's end, a fungicide application at VT to R1 would likely have been beneficial. You can help make plans for next year by doing end of season evaluations to see how much disease pressure was actually present.

Want to track disease movement, visit <https://corn.ipmPIPE.org/>. It's useful to monitor Southern rust and tar spot. Individual field scouting is likely a better option for gray leaf spot.

Soft red winter Special Edition Harvest Report 2023

This Soft Red Winter Special Edition of the Kansas Wheat Harvest Reports is brought to you by the Kansas Wheat Commission, Kansas Association of Wheat Growers, Kansas Grain and Feed Association and the Kansas Cooperative Council.

Soft red winter (SRW) wheat has been a bright spot in Kansas' otherwise challenging wheat harvest this year. According to USDA's National Agricultural Statistics Service in the 2023 Wheat Varieties Report, SRW makes up only about 4% of the state's wheat acreage, with hard red winter making up the majority of the balance.

In pockets of far southeastern Kansas and parts of northeast Kansas, wheat farmers plant soft red winter wheat, as those areas have climate conditions annually more suitable for SRW than HRW.

SRW typically yields higher than HRW but has lower protein content (8.5% to 10.5%), soft endosperm and weak gluten, making it targeted for different end products than HRW, universally known as the bread wheat. SRW is commonly used for specialty products such as sponge cakes, cookies, crackers and other confectionary products.

CoMark Equity Alliance (CEA), headquartered in Cheney, Kansas and Enid, Oklahoma, has several locations in the southeastern part of Kansas, extreme south central Kansas and north central Oklahoma that handle both soft red winter and

hard red winter wheat.

Troy Presley of CEA discussed the importance of keeping the two classes of wheat segregated.

"I feel it's especially important this year for all segments of the industry to work together to protect the integrity of both the hard red winter and soft red winter markets," he said. "End users rely on us to provide wheat with the characteristics they need, and we don't want to jeopardize that. It's important to know your customers and work with your FSA office to get an idea on the percentage of each class of wheat grown in the area."

Presley said they've been sending some samples to Kansas Grain Inspection Service for hardness tests, so "wheat can be labeled correctly, and we can tell our domestic and international markets, 'This is as advertised.'"

Jay Armstrong is one of those eastern Kansas wheat farmers who plants SRW. He has finished his wheat harvest near Muscotah in Atchison County, where it's normally too wet for high wheat yields, but this year was the exception.

Armstrong put on 160 pounds of nitrogen, fungicide and seed treatments on his SRW crop. Combined with a near-perfect growing season — he's one of the few producers in the state that would call it so this year — Armstrong said this was "the best wheat we have ever planted." His Pioneer 25R74 averaged 94 bushels per acre for a farm-wide yield with

test weights between 60 and 61 pounds per bushel.

Armstrong binned the bumper crop for later delivery to mills near Kansas City that are looking for SRW this year. Despite the successful wheat crop, no moisture is now to be found and the soybeans going in behind the combine are being planted into dust.

In Montgomery County, where Richard Felts farms with his brother Larry, the SRW wheat — which makes up 80 percent of their operation — looked good all winter long. But, the area also suffered from a long stretch without rain.

"When it quit raining this time last year, that was the end of it until this spring," Larry Felts said. "That's why we needed a decent wheat crop — because we didn't have anything for fall crops. From here you don't have to go very far before you run into some bad stuff."

Richard has farmed in partnership with Larry since they came back from college to partner with their father. Now, Rich's son and son-in-law are involved in the operation and Larry's grandson is running the grain cart — the fourth generation on the family operation.

The beginning of wheat harvest was delayed for the Felts family due to rain, finally starting around June 15. The SRW is averaging 85 bushels per acre with test weights averaging right at 60 pounds per bushel. That wheat is being delivered to the elevator in Coffeyville, which has to switch between hard and soft wheat deliveries, a tricky undertaking when both classes look similar but have very different quality characteristics... and different prices on the board.

"We're trusting that all our neighbors are being honest, and elevators are pulling a sample on every

load," Richard Felts said. "We all want to protect the integrity of hard red winter wheat."

The last wheat they will cut will be their HRW, but attention is already shifting to the next crop that could use some moisture as the son-in-law has started planting soybeans.

Harvest should have wrapped up by the end of last week in Franklin County, according to Clark Wenger, general manager/CEO of Ottawa Co-op. The area planted twice as many wheat acres this year and combined with an uncommon set of great growing conditions, the harvest is better than expected.

Both HRW and SRW are planted in this area, about 30 percent soft to 70 percent hard. Ottawa Co-op has taken in both classes of wheat for several years without issue because their elevator crew could visually distinguish between HRW and SRW. This year, however, certain HRW varieties started to look more like SRW. As a result, Wenger said they submitted samples to the state for grading and talked with farmers to make sure they were segregating the two classes.

Segregation between HRW and SRW is important for elevators as they market that wheat to different end-users.

"They either want soft wheat or hard wheat, they don't want a mix," Wenger said. "If it is a mix, then it causes problems and we're left to market that mix into a feed market that isn't as profitable. So, we have to make sure that what we take in is what it's supposed to be."

To follow along with harvest updates on Twitter, use #wheatHarvest23. Tag us at @kansaswheat on Facebook, Instagram and Twitter to share your harvest story and photos.

BUILDINGS / BLDG MTL.

DIAMOND L SUPPLY
Dwight, KS
• 1.888.608.7913 •
785.482.3211

Metal Roofing & Siding

All Steel & Post Frame Buildings

Walk-doors, OH doors, Insulation, Livestock equipment, Scales, Miraco, Waterers, Bale Beds & Cake Feeders, Protein Tubs

Delivery Available
Customers are #1

Moving?



Let us know your new address so you never miss an issue of Grass & Grain!

Contact Kevin: agpress3@agpress.com

785-539-7558

1531 Yuma St., Manhattan, KS 66502

A \$10 AD can sell a \$10,000 ITEM!

2004 WILSON STOCK trailer, 20', aluminum floor, rollup back door, well maintained. \$10,000. 785-539-XXXX

14-word classified ad, \$9.80 per week.

Discounts available on prepaid multi-week ads.

GRASS & GRAIN Classifieds
Effective. Inexpensive.

785-539-7558 • grassandgrain.com

Place
your
Classified
Ad
Online

www.grassandgrain.com

NOW IS A GOOD TIME TO GET RID OF UNUSED ITEMS ON THE FARM

GRASS & GRAIN Classifieds
are the perfect way to do it!

CLASSIFIED LINER ADS:

70¢ per word.

Discounts available for pre-paid ads that run 2+ weeks.

Visit us online, give us a call, stop by, or fill in and mail the ad form on page 16 to submit a classified liner ad.

CLASSIFIED DISPLAY ADS:

\$11.00 per column inch.

Discounts not available.

Give us a call, stop by, or contact your Grass & Grain sales rep to place a classified display ad!

www.GrassAndGrain.com

785-539-7558

1531 Yuma St • Manhattan, KS 66502

CLASSIFIED LINER ADS look like this. First line is in all-caps and bold. No other formatting available. Pay by-the-word. Words counted by a space. Phone numbers or words separated by a dash are 1 word. Words separated by a backslash are counted as 2.

CLASSIFIED DISPLAY ADS LOOK LIKE THIS!

• Includes a defining border around the ad.
• Pay by the inch.
All formatting is available. Photos/ logos optional.
Can be 1 or 2" columns wide.
*Depending on classification

Color is now available for classified display ads!
*Color is \$15.50 per in. Ad must be at LEAST 1colX3.5" to run in color in the classified section.

Refining surge protectors in crops could boost crop yields

Awash in a rowed sea of its brethren, a corn leaf relegated to the lowest rung of its stem spends much of a June afternoon doused in shade cast by the higher-ups.

Then a gust begins pushing, pulling and twisting the waxy wings in concert, cracking a window to the fireball roiling 93 million miles away. It's a prime, precious opportunity for photosynthesis to transform the sunlight into food. Unfortunately, the photosynthetic equivalent of a surge protector — one evolved to help plants mitigate damage driven by sudden spikes of high-intensity light — is slow to reset after so much time in the shade. The gust dissipates, the moment gone before the leaf and its cellular kitchen can take advantage.

A summer's worth of those minute but missed opportunities to harvest light can cost cornfields, and those who farm them, a sizable portion of the potential harvests they yield in the fall. By recently identifying and measuring the influence of new genes that regulate the surge protector, the University of Nebraska-Lincoln's Kasia Glowacka and colleagues could help increase those yields by upward of 20%.

Which isn't to downplay the importance of the safeguard, which goes by the name of non-photochemical quenching, or NPQ, and can transform light to heat whenever a plant absorbs more of the former than it can put toward photosynthesis. A failure to cut the biochemical circuit, after all, can lead to a toxic buildup of ultra-reactive oxygen that damages DNA and can even kill a cell. But the safety measure has a downside: The slower it is to relax and resume letting the absorbed light fuel photosynthesis, the more of that energy-granting light it wastes.

"When you think from the perspective of a chlo-

roplast in a plant cell, life is really difficult," said Glowacka, assistant professor of biochemistry at Nebraska. "Every few seconds, the environment is changing."

In 2016, Glowacka contributed to a study showing that cranking up the activity of three particular genes allowed tobacco plants to switch NPQ on and off at a much faster pace, granting it both better protection and more efficient photosynthesis. That tobacco, in turn, produced leaves roughly 20% larger, with simulations suggesting that even greater gains might be possible. Follow-up research found that the same technique could generate similar benefits in soybean — not just for leaves, but the beans, too.

But tobacco and soybean employ a different form of photosynthesis than corn, sorghum, sugarcane and several other crops better suited to hot and dry conditions — crops whose yields must increase to help feed the 10 billion people expected to populate the globe by 2050. Glowacka won-

dered whether the genes that coded for NPQ activity in one might play that same role in the other. Even if they did, Glowacka and Nebraska's James Schnable figured there must be other genes aiding a process as complex as NPQ.

They were right. Their discovery began with toiling in the fields during the summers of 2020 and 2021, when the team planted more than 700 genetically different lines of corn at the Havelock Research Farm in northeast Lincoln. Glowacka's plan: look for differences in NPQ performance among the lines, then try to tease out which genes were ultimately responsible for those differences. Still, the existing methods for measuring NPQ, Glowacka knew, were expensive and time-consuming. More than that, they struggled to flatten out daily disparities in each line's exposure to light, potentially spoiling the validity of any findings.

Rather than settle, Glowacka developed her own method. The team used a modified hole-

punch to extract tiny samples from the leaves of every line in the field. Back in the lab, the researchers gave the tissue samples nearly a day to adapt to the dark, eventually measuring their fluorescence — a proxy for photosynthesis and NPQ — before and after exposing them to flashes of light. Instead of measuring one sample every 20 minutes, the team was able to handle 96 samples over that same span.

The researchers found that the speed and magnitude of NPQ responses varied widely among the lines, a fact that helped ease the search for any new genes potentially driving that variation in corn. A comparison of the lines' genetic code, cross-referenced against the differences in NPQ performance, eventually revealed six promising gene candidates. Several of those candidates were already familiar to the team. Others were not — including one called PSI3, which introduced more of that variation than any other candidate.

After identifying coun-

terparts of those six genes in Arabidopsis, a flowering plant commonly used to study plant biology, the team proceeded to order mutants: Arabidopsis seeds each lacking one of the six genes. In all six of the mutants, the surge protector was generally sluggish to respond under the lights but also slower to relax when the lights were turned out. The NPQ peaks were typically lower, too, and the troughs higher, suggesting that the plants both buffered less against surges and squandered more of the light available for photosynthesis.

The identification of those genes, combined with the amount of natural NPQ variation across lines of corn, could open the way to breeding plants far better at capitalizing on yield-boosting sunlight, the researchers said. In the best case, Schnable said, those efforts might come to bear fruit in as little as a half-dozen years.

If they do, the results could prove a boon for crop breeders now investigating every and all possibilities to preclude global food shortages in the com-

ing decades.

"We can gain 22% of that yield from the crops, potentially, if we were to speed up the NPQ," Glowacka said.

Given that the researchers kicked off the study early in 2020, their attempts to help stem an impending global crisis meant dealing with a contemporary one. Two of the team's members, Seema Sahay and Marcin Grzybowski, had only recently arrived in the United States — recently enough that neither had yet gotten a driver's license. Prior to COVID-19, the two would have hitched rides out to the Havelock Research Farm.

University protocols designed to slow the spread of the virus, though, temporarily put that option on hold. Undeterred, Sahay and Grzybowski regularly resorted to biking roughly seven miles out to the research farm — a 30-plus-minute trek amid the heat and humidity of a Nebraska summer.

"Seema and Marcin," Glowacka said, "are the real heroes of this experiment."



Bar S Eilazane 2723 won fourth overall bred-and-owned champion female at the 2023 Kansas Junior Angus Association Preview Show, June 3-4 in Hutchinson. Jayce Dickerson, Paradise, owns the May 2022 daughter of Silveiras Forbes 8088. She first claimed reserve intermediate champion. Austin Vieselmeyer, Amherst, Colo., evaluated the 108 entries. Photo by Jeff Mafi, American Angus Association

PERSONAL PROPERTY AUCTION

* TRACTORS * TRAILERS * TOOLS * ANTIQUES * ANTIQUE FARM EQUIPMENT & MORE!

SATURDAY, JULY 15, 2023 * 10:00 AM

LOCATION: 18035 US 24, WAMEGO, KANSAS 66547

Directions: Turn onto Walsh Rd. & go to the North end of KanEquip's property, auction will be on the far North lot.

Items Offered for Sale: Dorsey flatbed semi-trailer; Hay Budden anvil (est. 150 lb.), lots of brand new CNH parts & access., 30'x2' culvert, railroad car wheels, tons of misc. iron, cinder blocks, brand new barn tin, decorative rocks, various steel wheels, ladders, 2 Grasshopper baggers, hundreds of T-posts, limestone posts, bricks, wood blocks, fuel transfer tanks, lg. rolls of smooth and barbed wire, fuel barrels, buzz saw, General Electric E10-M lawn mower Mule Utility Vehicles sign, multiple antique lawn mowers, harrows, aeration rollers, Case planter boxes, cream separators, cast iron cauldron, Ford 9N, dirt scoops, antique oil pump & reservoirs, a few cast stove parts, brand new Land Pride model RB3672 3 pt. blade, Mars model 2040 elec. scooter (very unique), like new 3 pt. mount Bush Hog log splitter, antique tin shingles, Southeast brand 6' 3 pt. mounted blade, Tilt O' Matic rock box, Norseman snowmobile, wagon wheels & parts, welded wire fence, hundreds of feet of white vinyl fencing, 4-wheeled hay wagons, 8' disc, horse drawn sickle bar mower, barn wood, misc. tires, misc. vehicle parts, horse tack, plows, cistern pump, cast fence tops, vintage tricycle, Arctic water cooler, little red wagons, Ford lawn mower, some antique signage, antique pop bottles, porcelain water fountain, continuous belting, Maytag washers, corn sheller, misc. tires & rims, plows, plastic chemical or water tanks, John Deere 316 lawn mower, die cast John Deere toys, CJ5 Jeep (runs & drives), several horse drawn wagons, Ford Model A (restoration project), Case & New Holland tractor hoods, wooden sleds, boomed pull type lawn sprayer, seed cleaners, 2 truck beds (1 from a 90s model Chevy 1-ton dually & 1 from an early 2000s model F250 long bed), Army trailer, nice tandem axle bumper pull stock trailer & many more items not listed! For Terms See Website.

SOLD IT YOUR WAY!

Morgan Riat AUCTIONS

with Foundation Realty

MORGAN RIAT,

REALTOR®/AUCTIONEER

785-458-9259

email: morgan@foundationks.com

FOUNDATION REALTY

210 N. 4th St., Suite B,

MANHATTAN, KS

SELLER:
MEINHARDT
FARM EQUIPMENT

Visit us at www.foundationks.com

for more details & pictures!

UPCOMING SPECIAL ISSUES

Ag Finance - August 8th

KS State Fair Issue (BOGO Half Price) - August 29th

Fall Harvest (4 week series) - starts September

Fall Full of Bullz - September 12th

G&G Farm Show Edition - October 31st

Soil Health - November 7th

Christmas Business Greetings - December 19th

DEADLINES:

Ag Finance - August 2nd, before Noon

KS State Fair Issue - August 23rd, before Noon

Fall Harvest - August 30th, before Noon

Fall Full of Bullz - September 6th, before Noon

G&G Farm Show Edition - October 25th, before Noon

Soil Health - November 1st, before Noon

Christmas Greetings - Dec. 13th, before Noon

**Keep watching for 2024
Special Edition announcements!**

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



Briana McKay
– Sales Representative –
briana@agpress.com
Office: 785-539-7558



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

**Summer
Subscription
Special**

Start a **NEW***
subscription to
Grass & Grain,
and we'll give
you a discount AND
pay the sales tax!

— Over \$6 in savings per year for the mail edition! —

MAIL EDITION

1 Year - \$39 • 2 Years - \$73 • 3 Years - \$99

Publishes weekly every Tuesday, 52 issues per year.
Free email edition optional, email required.

GRASS & GRAIN

makes a Great Gift!

Valid for NEW subscriptions only.
Must be received by August 31st, 2023.

*Special Introductory Rate Only - Renewals
after initial purchase will be at regular cost.

GRASS & GRAIN

**EMAIL
EDITION**

**ARRIVES IN YOUR INBOX EVERY
MONDAY AFTERNOON!**

Low cost, easy to sign up and use!

*Current print subscribers can receive the email
edition at no extra cost. All we need is your email!
Call and we'll get you set up!*

For more information:

Subscribe online: GrassAndGrain.com

Give us a call: 785-539-7558

Or stop by: 1531 Yuma St., Manhattan, KS 66502

We will NEVER sell your information, and you will not receive any junk emails from
or as a result of us.

Various vaccines help keep livestock healthy

By Wendie Powell, livestock production agent, Wildcat Extension District

Raising healthy livestock is the goal of every livestock producer. Not only are healthy animals more profitable, but they are also more enjoyable to work with. However, keeping critters healthy requires a good herd health management plan. All animals have various defense mechanisms to deal with infections, influenced by age, nutrition, and management. Stress can impact how the immune system reacts to a pathogen attack. Vaccination is one tool to prevent disease; it's risk mitigation for produc-

ers to protect their livelihood from disease.

When an organism gets sick from a specific pathogen for the first time, the immune system can be slow to develop antibodies, sometimes seven to 14 days. Recovery allows the immune system to remember and recognize the pathogen in the future. So, the next exposure triggers the production of specific antibodies by specialized cells, which will work to destroy the pathogen again, often within 48 hours. Vaccines induce this same protection by priming the system for a response. Most vaccines do not prevent infection;

instead, they aid in the prevention of sickness.

There are several types of vaccines; the majority of licensed veterinary vaccines in use are killed vaccines and modified live vaccines. They have different strategies to reduce the risk of illness and induce a beneficial immune response.

Modified live vaccines are non-disease-causing versions of a virus or bacteria. The live virus or bacteria replicate similar to the actual disease but does not cause the disease itself. The replication of the vaccine organism allows the immune system to develop a full response

and create protective immunity with only one dose of the vaccine.

Killed vaccines do not contain a live virus or bacteria. These contain a dead organism or a specific piece of an organism that is critical to the function of the disease-causing pathogen.

The crucial difference between killed and modified live vaccines is the lack of replication with a killed product, meaning the immune system does not develop the protective memory with just one dose and requires a booster.

There has been a recent buzz concerning Messenger RNA (mRNA)

vaccines. Dr. Kevin Folta, a molecular biologist and professor at the University of Florida explains that this type of vaccine is an intermediate between the gene itself and the products that the gene encodes. Consider a blueprint and a house; the mRNA is the construction worker. It takes the blueprint and builds the house. In the cell, the mRNA takes the DNA blueprint and builds part of the final structure. The mRNA is the go-between, it does not change the genes or the DNA itself.

The Food and Drug Administration sets withdrawal times for all vet-

erinary drugs. The withdrawal period is the time between the last dose and when the animal or animal product can be safely used for food. Rephrased, this is the time that the animal and its products must be withdrawn from trade. This time allows the drug to be reduced to a safe tolerance level; the withdrawal time depends on the drug; but typically ranges from 0 to 60 days.

To learn more about keeping livestock healthy, please contact Wendie Powell, Livestock Production Agent, (620) 784-5337, wendiepowell@ksu.edu.

American Farmland Trust applauds introduction of the NO EMITs Act

Representatives Mike Gallagher (R-WI) and Jared Huffman (D-CA) introduced the Naturally Offsetting Emissions by Managing and Implementing Tillage Strategies (NO

EMITs) Act, a bill aimed at supporting farmers in improving soil health. American Farmland Trust (AFT) applauded the bipartisan bill's introduction and its inclusion of

one of AFT's top Farm Bill priorities: establishing a federal match for state and Tribal soil health programs. Introduction of the No EMITs Act comes just days after AFT released a

white paper outlining the need for this kind of federal matching program, and urging Congress to build up locally led programs that supplement and fill gaps in NRCS conservation support.

"In recent years, states have begun creating innovative soil health programs that fill current gaps in support and help producers voluntarily adopt soil health practices in locally-tailored ways," said Tim Fink, policy director for American Farmland Trust. "But with limited state budgets, these programs struggle to keep pace with producer interest and demand. Creating

a new federal program to match state and Tribal funding would help leverage existing soil health programs and incentivize others to create programs of their own."

Soil health is a key strategy to support farm viability, increase resilience to extreme weather, promote food security, and address environmental concerns. But soil health practice adoption is not sufficiently widespread — for example, in 2017, cover crops were planted on just 6% of eligible acres. NRCS programs are the main form of support to help producers successfully adopt soil health practices, but these popular programs are oversubscribed, address a wide range of resource concerns, and leave gaps, such as supporting equipment purchases that enable producers to adopt soil health practices.

"This approach would leverage federal funding, build on local leadership

and innovation, and incentivize the creation of new state and Tribal programs that fit local soils, local climate, and local needs," Fink said. "AFT applauds Representatives Gallagher and Huffman for their leadership in introducing this legislation at such a critical time."

The proposal to create a federal match for state and Tribal soil health programs in the Farm Bill has broad support from across the country — American Farmland Trust coordinated a memo of support that was signed by six state agencies; nine conservation district associations; and stakeholders from across sectors in 29 states, including the farm, food, environment, conservation, public health, research, education, and environmental justice sectors. The Food and Agriculture Climate Alliance (FACA) also supported this policy in their 2023 Farm Bill Recommendations.

RAYMOND LANG ONLINE AUCTION - (Marquette, KS)

To the highest bidder: 14' Flat Jon Boat, Portable 5,000 watt generator, Fencing, Cement Mixer, Collection primitive tools, Elec Smoker, Vintage snow sleds, Garden cultivator, Oil lamps & lantern, Vintage fruit crates, JC Higgins Bike, Saw horses, Copper Boiler, Portable building frame, Carpenter work bench, Stoneware, Canning Jars, Dbl galvanized tub set.

ONLINE BIDDING OPENS: Thursday, July 6, 8:00 a.m.
with SOFT CLOSE Wednesday, July 12, 8:00 p.m.

Pickup is 1-7 p.m. Friday, July 14 at sale location - **BY APPOINTMENT ONLY!**
 Shipping available on items so marked.

HOLLINGER
 ONE DAY AUCTION & REAL ESTATE
 620-257-8148

View, Register & BID at:
<https://hollingerauction.hibid.com/auctions/current>
HOLLINGER ONLINE AUCTION * Lyons, KS * 620-257-8148




Watch for our upcoming Kid's Corner Contest!

The United States gained its freedom from Great Britain after signing the Declaration of Independence on July 4, 1776. Also called "Independence Day," the Fourth of July is celebrated with fireworks, parades, games, and other ceremonies that recognize the history, government, and traditions of the United States.

Let freedom ring! Find the words that honor our country as we celebrate the Fourth of July in the flag pictured below. (Hint: not all the stripes have a word!)



 stars	 fireworks	 parade
 stripes	 courage	 liberty
 flag	 freedom	 barbecue
 Hancock	 fourth	 colonies



★ What is your favorite way to celebrate Independence Day?

Independence is no joke... but these are!

What kind of tea did the American colonists want? *liber-teal*

Why did the duck say "Bang!?" *Because he was a firequacker!*

What did one flag say to the other flag? *Nothing. It just waved!*

What did King George think of the American colonists? *He thought they were revolting!*

GRASSANDGRAIN.COM

About Us

Current Edition

Place an Ad

Subscribe

Contact Us

WELCOME TO G&G — A RURAL NEWSWEEKLY

Grass & Grain, a farmers' newsweekly, has been published in Manhattan, Kansas for over 60 years. The G&G community looks to the Tuesday publication for timely, accurate information.

Renew your Grass & Grain subscription Online - it's easy!

Visit www.GrassAndGrain.com



Click 'Subscribe To Grass & Grain' and follow the prompts!

GRASS&GRAIN Having trouble? Give us a call!
 785-539-7558



GET YOUR NAME OUT THERE!

Reach YOUR customer base with affordable advertising.

WE CAN BUILD TO YOUR BUDGET!

You can't sell what you don't advertise!
 Call today for more info!

GRASS & GRAIN
 785-539-7558



Grass & Grain Weather Report July 5, 2023

Seven Day Forecast	In-Depth Local Forecast	Today's Local Outlook
WEDNESDAY Scattered T-storms High: 90 Low: 63	Today we will see mostly cloudy skies with a 45% chance of showers and thunderstorms, high temperature of 90°, humidity of 52%, South southeast wind 10 to 14 mph. The heat index for today could reach up to 92°. The record high for today is 103° set in 2012.	Washington 92/68 Blue Rapids 87/62 Seneca 87/62
THURSDAY Scattered T-storms High: 81 Low: 58		Clay Center 88/63 Manhattan 90/63 Wamego 90/63
FRIDAY Mostly Cloudy High: 77 Low: 53		Ogden 88/63 Junction City 91/63
SATURDAY Mostly Cloudy High: 79 Low: 57		Abilene 92/63 Council Grove 92/64
SUNDAY Few Showers High: 82 Low: 58		
MONDAY Mostly Cloudy High: 85 Low: 63		
TUESDAY Sunny High: 89 Low: 65		

Last Week's Almanac

Date	H/L	Normals	Precip
6/23	93/72	88/64	0.00"
6/24	97/68	88/65	0.03"
6/25	89/64	88/65	0.00"
6/26	91/59	88/65	0.00"
6/27	89/66	89/65	0.03"
6/28	101/72	89/65	0.00"
6/29	97/75	89/66	0.00"

Rainfall 0.06"
 Normal rainfall 1.05"
 Departure -0.99"
 Average temp 80.9°
 Average normal 76.7°
 Departure +4.2°

This Week's Sun & Moon Chart

Day	Sunrise	Sunset	Moonrise	Moonset
Wednesday	6:06 a.m.	8:56 p.m.	11:19 p.m.	8:22 a.m.
Thursday	6:06 a.m.	8:55 p.m.	11:51 p.m.	9:41 a.m.
Friday	6:07 a.m.	8:55 p.m.	Prev Day	10:57 a.m.
Saturday	6:08 a.m.	8:55 p.m.	12:18 a.m.	12:10 p.m.
Sunday	6:08 a.m.	8:54 p.m.	12:43 a.m.	1:20 p.m.
Monday	6:09 a.m.	8:54 p.m.	1:08 a.m.	2:28 p.m.
Tuesday	6:10 a.m.	8:54 p.m.	1:33 a.m.	3:36 p.m.

Weather History

July 5, 1937 - The temperature at Medicine Lake, Mont. soared to 117 degrees to establish a state record. Midvale and Yellow Grass in Saskatchewan hit 113 degrees to establish an all-time record high for Canada that same day.

Date	Degree Days	Date	Degree Days
6/23	32	6/27	27
6/24	32	6/28	36
6/25	26	6/29	36
6/26	25		

Local UV Index

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

Schwieterman Market Outlook

A marketing commentary by Bret Crotts

The grain markets have been in free fall mode since the forecasts turned wetter. The corn market has essentially given up all of the gains made during May and June. The wheat, depending on which contract you look at, has given up about half of the gains, but the beans have managed to outperform the other markets.

The soybean complex got a huge boost from the Planted Acreage report, which showed soybean acreage at 83.5 million. That was well below the lowest trade guess and about 4 million below the average trade guess. That acreage figure will result in much lower new crop ending stocks and make the market even more sensitive to the weather. USDA will definitely cut demand estimates to help compensate for the lower production, but then won't be able to offset all of it, so if weather is not ideal we could potentially see ending stocks at or below the 150 million bushel level.

About half of the missing soybean acres went to the corn. Corn acreage came in at 94.01 million, which was up 2 million from the March estimate. That acreage figure, combined with ideal weather and our current demand pace, could bury us in corn. A trend line yield has become much less likely thanks to the dry June, but improved July weather could go a long way to fix that problem. Since the majority of U.S. corn production is under some level of drought condition, we have to see the forecast rains materialize in order to keep the market down. If condition ratings continue to deteriorate, the corn will be able to get back a significant part of the recent losses.

The wheat stocks number came in at 580 million bushels, which was considerably lower than expected, and would have been supportive, had it not been for the extreme pressure in the corn market. Wheat is still stuck being a follower since it does not have a good demand story to keep the market supported, so what ever the corn does, the wheat will probably follow.

On the charts, the soybeans, and particularly the soybean oil, definitely have the best outlook. The key resistance for the November contract will come in at the \$13.78 high from June 21st, followed by the \$14.00 area. The acreage cut is enough to keep the market going for a little while, but a weather problem will make the market explosive. Look for the December soybean oil to move above 60 and perhaps head for 66.

The corn looks bleak, the last hope for the support in the December contract is the May low at \$4.90. Failure there would suggest that traders feel the crop is made and that the market is going to head for \$4.00. The key overhead resistance level will be the 50-day moving average at the \$5.38 area.

As for the December KW, the outside day down Friday points towards a test of the \$7.76 area. Failure there would indicate that we are headed below \$7.40. It will take a close over \$8.27 to indicate we are going to turn higher.

Cattle futures had a great week. The weakness in the corn was very helpful to the feeders, and most feeder contracts made new contract highs. The live cattle were not quite as strong, but seeing mostly steady cash trade with the futures well below the cash, had the market climbing all week. New contract highs are probably going to happen soon. If there is any indication of higher cash cattle trade, the August live cattle should move above \$180.

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@subell.net

This material has been prepared by a sales or trading employee or agent of Schwieterman, Inc. and is, or is in the nature of, a solicitation. This material is not a research report prepared by Schwieterman, Inc. Research Department. By accepting this communication, you agree that you are an experienced user of the futures markets, capable of making independent trading decisions, and agree that you are not, and will not, rely solely on this communication in making trading decisions.

The risk of loss in trading futures and/or options is substantial and each investor and/or trader must consider whether this is a suitable investment. Past performance, whether actual or indicated by simulated historical tests of strategies, is not indicative of future results. Trading advice is based on information taken from trades and statistical services and other sources that Schwieterman, Inc. believes are reliable. We do not guarantee that such information is accurate or complete and it should not be relied upon as such. Trading advice reflects our good faith judgment at a specific time and is subject to change without notice. There is no guarantee that the advice we give will result in profitable trades.

"I've been a long-time believer and subscriber of Grass & Grain."

"I have kept an ad in Grass & Grain every week since 1972 and I have been very pleased with the results!"

"Very cost effective. For what I spend in advertising, I spend way less with Grass & Grain than anywhere else."

"I have sold more property from my Grass & Grain ads than any other media that I have used!"

"I've been very pleased with the distribution because of the people that I have worked with that weren't from this area. They got the paper and saw the ad!"

"It absolutely pays for itself!"

You too could be reaping the benefits of Grass & Grain advertising!

Don't hesitate, call today:

785-539-7558

Or stop by to talk with one of our advertising representatives:

Dolly Anderson, broker/
owner of G&A Real Estate in
Manhattan, KS, is one of
Grass & Grain's longest,
continuous advertisers.
*Look for her weekly ad in the
classified section!*

Since 1954

GRASS & GRAIN

1531 Yuma St. Manhattan, KS

30'X48'X12' GARAGE FOR ONLY \$36,900!

PRICE INCLUDES:
 *30X48X12 GARAGE
 INSTALLED ON YOUR
 LEVEL SITE
 *2-10X10 NONINSULATED
 GARAGE DOORS
 *(1) 3' 9-LITE
 ENTRY DOOR
 *4" CONCRETE
 WITH REBAR

Price effective thru July 31

Since 2005!

If you invest in a building from us,
it'll be the last one you'll ever need!

YCS YUTZY Custom Structures
1-800-823-8609 Location: Garnett Ks
Travel charges may apply

www.yutzyconstruction.com

SEE G&G
ASAP!

Our email edition arrives Monday afternoon and is **free** with your print subscription!

Call 785-539-7558 or email agpress3@agpress.com and we'll set you up.

Since 1954

Sell At St. Marys

Tuesdays

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

We sold 600 cattle June 27. Steer and heifer calves were in good demand at steady prices. Feeder steers sold at steady price after last week's higher priced. Cows and bulls were steady.

STEER CALVES	1 blk str	655 @ 229.00	1 blk hfr	565 @ 232.00	1 wf cow	1215 @ 97.00	
9 blk/bwf str	434 @ 293.00	18 mix str	829 @ 227.50	1 bfw hfr	590 @ 197.00	1 char cow	1525 @ 96.00
4 blk str	505 @ 280.00	1 x-bred str	645 @ 219.00	5 blk hfr	845 @ 195.00	1 bfw cow	1490 @ 95.00
1 blk str	355 @ 278.00	1 blk str	870 @ 214.00	2 blk hfr	648 @ 180.00	1 bfw cow	1360 @ 94.00
17 blk/red str	466 @ 275.00	59 mix str	954 @ 209.35	6 blk/bwf hfr	980 @ 174.00	1 blk cow	1170 @ 93.00
1 blk str	515 @ 255.00	60 mix str	973 @ 205.50			1 blk cow	1460 @ 90.00

STOCKER & FEEDER STEERS	HEIFER CALVES	COWS
15 blk/bwf str	3 blk hfr	1510 @ 107.00
7 blk str	3 blk hfr	1710 @ 106.00
9 bfw/red str	3 blk hfr	1700 @ 105.00
12 blk str	2 blk hfr	1490 @ 104.00
9 blk/bwf str	2 blk hfr	1400 @ 103.50
67 blk/char str	1 blk hfr	1655 @ 102.00
7 blk str	10 blk/red hfr	1315 @ 100.00
111 blk/char str		1460 @ 99.00
36 blk/char str		1400 @ 98.50
		1305 @ 98.00

NO SALE TUESDAY, JULY 4th!

CONSIGNMENTS FOR TUESDAY, JULY 11, 2023:

- 125 blk red heifers, 750-850 lbs.
- 124 blk steers, 875-900 lbs., off grass
- 60 blk char steers, 925-950 lbs.
- 61 blk x-bred steers, 925-950 lbs.

WATCH OUR AUCTIONS LIVE ON DVAuctions.com

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

FOR INFORMATION OR ESTIMATES:

REZAC BARN ST. MARYS, 785-437-2785
 DENNIS REZAC ST. MARYS, 785-437-6349
 DENNIS' CELL PHONE 785-456-4187
 KENNETH REZAC ST. MARYS 785-458-9071

LELAND BAILEY TOPEKA, 785-215-1002
 LYNN REZAC ST. MARYS, 785-456-4943
 REX ARB MELVERN, 785-224-6765

Livestock Commission
Company, Inc.

Rezac St. Marys, Ks.

Toll Free Number.....1-800-531-1676

Website: www.rezACLIVESTOCK.com
 AUCTIONEERS: DENNIS REZAC & REX ARB