



Schwieterman Market Outlook

A marketing commentary by Bret Crotts

The corn and wheat markets had a great start to the week last week, closing at multi-week highs and generally looking bullish on the charts. The corn in particular was supported by the Pro Farmer production estimate, which was 600 million bushels below the current USDA number of 14.359 billion bushels. A production number that low would either make ending stocks uncomfortably tight, or force demand rationing. Either way it implies higher prices. However, that positive fundamental news was quickly overshadowed by recession fears, and gen-

eral "risk off" type trade that put pressure on a number of markets. For the corn and soybeans, which are heading into harvest, it is a very difficult time of year to post gains, regardless of the prevailing thoughts on production.

The September supply and demand report isn't until Monday the 12th, so there is quite a bit of trading to be done ahead of that. The expectations will be for lower corn production and higher soybean production, so there is a chance for spread trade that favors the wheat and corn versus the soybeans. Crop condition

ratings are less important at this point in the season, but the soybean ratings can carry a bit of weight as we move forward, so we still have to look at the report. Unfortunately, we won't have an export sales report until at least the 15th of September, so unless we see large daily sales announcements, we won't have much idea about the demand pace for a while.

On the charts, the December corn found some support at the 38% retracement of the move up from the mid-August low, but we will have to see follow-through strength early next week to confirm

a low. The December KW attempted to break out of the sideways trading pattern, but got stopped at \$9.21 1/2 again, so we are still stuck in a holding pattern. The soybean chart probably looks the worst at this point, but the 50-day moving average is still holding as support for now. A close below \$13.80 in the November contract would look particularly bad on the chart.

October live cattle found support just above the 50-day moving average Wednesday and Thursday, then proceeded to come alive on Friday and take out the previous six sessions' highs. Technical indicators are turning up and a little bit of follow-through buying will put the bulls back in control.

It wasn't quite the same chart pattern for the feeders, but the October feeders did find some buying interest on Tuesday after an ugly Monday. The sub-

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dued corn market and the strength in the live cattle made for a good week for the feeders. The cash index has been trending higher for three months, which was essentially just an effort to catch up with the August futures. The Index is still at a discount to all the futures contracts, so we should probably plan on more strength.

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Entomology students propose plastic as food source for insects

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

It seems like such a simple question.

"What if...?"

Yet, for a team of undergraduate and graduate entomology students at Kansas State University, it was just the opening salvo in their quest to help tackle one of the world's most pressing issues: food security.

In their case: What if insects could use plastic as a food source, ultimately helping mankind with such challenges as managing the world's food supply and recycling waste.

"As entomologists, we are always trying to help solve the world's problems through our own unique lens," said Hannah Quellhorst, a K-State doctoral student from Lebanon, Ind. "For us, insects are at the center (of this challenge); they can be beneficial and they can be pests. We sought to find a way that insects could help us

solve the issue of food insecurity, food waste and plastic contamination in the environment."

A team of nine K-State students and entomology department head Brian McCornack initiated the idea based on an innovation challenge sponsored by Wilbur-Ellis, one of the world's largest family-owned agribusinesses, as part of that company's 100-year anniversary.

K-State team member Mollie Toth, a graduate student from Blue Springs, Mo., kick-started the idea by suggesting that insects can use non-traditional food sources for energy, such as plastics.

So, the team went to work: By engineering or selecting bacteria that can degrade plastic and live symbiotically within an insect's gut, insects could use plastic as a food source.

"Food waste – ranging from agricultural production to restaurants – would then be supple-



KSU entomology students experiment with using plastic as a food source for insects.

mented with plastic waste, and these diverse waste streams become food for insects," Toth said. "The resulting insects can then be fed to livestock – chickens, cows, fish and more – and insect manure (termed frass) is an excellent source of nutrients for crops."

Ivan Grijalva, a doctoral student from Quito, Ecuador, focused on insects' benefits to agricultural ecosystems. Brandon Hall, a doctoral student

from Crete, Neb., worked on the benefits of using insects as food.

"Insects have a well-rounded nutritional profile similar to other protein sources, such as beef and chicken," Hall said. "Insects are also highly efficient at resource conversion compared to traditional livestock species. They can convert our food waste into usable biomass, which we can incorporate into the global food system."

In early August, the team's vision paid dividends when Wilbur-Ellis selected it as the first-ever grand prize winner of its innovation award, termed the Best Idea to Feed the World. The recognition comes with a \$25,000 prize.

"What's great about our idea is that we envision it to be scalable from large factories that service metropolitan areas down to the backyard compost where consumers can begin degrading plastics alongside their banana peels," said team captain Cameron Osborne, a doctoral student from Fresno, Calif.

Other members of K-State's winning entomology team are doctoral student Jacqueline Maille (Lum, Mich.); undergraduate Theresa Markwardt (Fayetteville, Ark.); undergraduate Molly Edeburn (Rockford, Minn.); and doctoral student Victoria Pickens (Sand Springs, Okla.).

"I'm very proud of this

team and excited that this semester we are able to offer an undergraduate program in entomology," McCornack said. "Hands-on teaching and undergraduate research is a huge component in our curriculum. I expect to see more creative projects and solutions like this one popping up with undergraduates in the program."

A team of K-State students in the Department of Grain Science and Industry won one of four honorable mention prizes (and a \$5,000 award) in the same contest. Their project suggested using ocean agriculture (growing crops and seafood in a large body of water in a fixed location) to reduce the amount of land required for traditional agriculture.

According to information from Wilbur-Ellis, 30 university teams from around the U.S. competed for one of five prizes.

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<p>We had a lighter run of cattle on a holiday weekend for our sale held on Friday, September 2nd. Light steers and heifers were in shorter supply with good buyer interest. Stocker feeder weight cattle sold at fully steady to spots higher according to quality and condition. Cull cows and bulls sold fully steady on a large offering.</p> <p>BULLS & STEERS — 400-550 LBS.</p> <table border="0"><tr><td>Tonganoxie</td><td>16 bwf</td><td>415@212.00</td></tr><tr><td>Wamego</td><td>5 blk</td><td>527@209.00</td></tr><tr><td>Tonganoxie</td><td>6 blk</td><td>453@206.00</td></tr><tr><td>Alma</td><td>10 blk</td><td>539@200.00</td></tr><tr><td>Burns</td><td>4 Cross</td><td>482@200.00</td></tr><tr><td>Belvue</td><td>9 blk</td><td>542@195.00</td></tr><tr><td>Baileyville</td><td>6 Hol X</td><td>545@179.00</td></tr></table> <p>STEERS CALVES — 600-650 LBS.</p> <table border="0"><tr><td>Wamego</td><td>18 blk</td><td>622@212.00</td></tr><tr><td>Cedar Point</td><td>4 Cross</td><td>618@201.00</td></tr><tr><td>Belvue</td><td>8 blk</td><td>642@201.00</td></tr><tr><td>Alma</td><td>4 blk</td><td>638@196.00</td></tr></table> <p>STEERS — 550-950 LBS.</p> <table border="0"><tr><td>Onaga</td><td>4 blk</td><td>558@196.00</td></tr><tr><td>Belvue</td><td>9 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Kansas Hay Market Report

Compared to the last report, the hay market was steady for most regions while demand has stayed constant. With the return of the heat and little to no rainfall in the forecast, producers are doing everything in their power to maintain a steady feed supply for fall while also preparing their winter feed. Everything that can be baled is being baled, including failed corn, beans, and milo. According to the U.S. Drought Monitor for August 23rd, abnormally dry conditions (D0) decreased to 10%, moderate drought (D1) increased to 15%, severe drought (D2) remained near 26%, extreme drought (D3) remained near 21%, and exceptional drought (D4) remained near 10%.

Southwest Kansas

Dairy alfalfa, grinding alfalfa, ground and delivered steady, movement slow to moderate. Alfalfa: horse, supreme small squares new crop 12.00/bale. Dairy 1.30-1.40/point RFV, Supreme (185rfv-200rfv) 240.00-280.00, Premium (175rfv-185rfv) 230.00-260.00, Good (150rfv-170rfv) 195.00-240.00. Good, Stock or Dry Cow 280.00-285.00. Grinding alfalfa, large rounds, new crop 230.00-245.00, new crop large square 3x4's and 4x4's 255.00-265.00. Ground and delivered locally to feed lots and dairies 260.00-285.00; Grass Hay: Bluestem, large rounds 165.00-175.00 delivered, small squares 8.00/bale. The week of 08/21-08/27, 8,684T of grinding alfalfa and 500T of dairy alfalfa was reported bought or sold.

South Central Kansas

Dairy alfalfa steady, alfalfa pellets, grinding alfalfa, mostly steady, ground and delivered steady to 5.00 higher, movement moderate. Alfalfa: horse, small squares 255.00-275.00. Dairy 1.30-1.40/point RFV, Supreme (185rfv-200rfv) 240.00-280.00, Premium (175rfv-185rfv) 230.00-

260.00, Good (150rfv-170rfv) 195.00-240.00. Good, Stock cow, new crop 250.00-280.00. Fair/good grinding alfalfa, new crop large rounds 215.00-225.00 delivered, 3x4 and 4x4's 235.00-245.00 delivered. Ground and delivered 230.00-245.00. Alfalfa pellets: Sun cured 15 pct protein 255.00-265.00, 17 pct protein 265.00-275.00, Dehydrated 17 pct 310.00-315.00. Grass Hay: Bluestem, small squares 160.00-165.00, large squares 3x4's, old crop 120.00-130.00, new crop 3x4's 130.00-140.00, large rounds 100.00-110.00. Brome: small squares, 9.00/bale, 3x4's 145.00-155.00, large rounds 135.00-140.00. Sudan: large rounds 160.00-170.00. Soybean stalks, large rounds 145.00-155.00. Wheat straw: 95.00-105.00. The week of 08/21-08/27, 5,620T of grinding alfalfa and 2,336T of dairy alfalfa was reported bought or sold.

Southeast Kansas

Dairy alfalfa, grinding alfalfa steady, bluestem grass hay steady, movement slow to moderate. Alfalfa: horse or goat, 260.00-270.00. Dairy 1.30-1.40/point RFV. Good, stock cow 220-230.00. Fair grinding alfalfa, 170.00-180.00; Grass hay: Bluestem, small squares 135.00-145.00, good 3x4 squares 140.00-150.00, large round 120.00-130.00, Brome, large rounds 140.00-150.00, 3x4 and 4x4 squares 150.00-175.00. Wheat straw, large rounds 60.00-70.00. The week of 08/21-08/27, 1,028T of grass hay was reported bought or sold.

Northwest Kansas

Dairy alfalfa, grinding alfalfa steady, movement slow. Alfalfa: Horse or goat, small squares 300.00-400.00 delivered, 3x4 squares 250.00-260.00. Dairy, Premium/Supreme 1.30-1.40/point RFV. Stock cow, fair/good 225.00-235.00. Fair/good grinding alfalfa, 195.00-205.00 picked up out of the field.

North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered and grass hay steady, movement slow. Alfalfa: horse, premium small squares, 11.50-12.50/bale. Dairy 1.30-1.40/point RFV, Supreme (185rfv-200rfv) 240.00-280.00, Premium (175rfv-185rfv) 230.00-260.00, Good (150rfv-170rfv) 195.00-

240.00. Horse hay, 3x4's 290.00-300.00; Stock Cow 3x4's 205.00-235.00. Fair/good, grinding alfalfa new crop 205.00-215.00, good, large square 3x4's 235.00-245.00; Ground and delivered, old contracts 175.00-190.00; Grass hay: Bluestem, small squares 8.00-9.00/bale, large 3x4 squares 135.00-145.00, good large rounds new crop 120.00-130.00, Brome: small squares 8.50-9.50/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 95.00-105.00, large squares 110.00-120.00. The week of 08/21-08/27, 771T of grinding alfalfa and 516T 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. 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.

Checkoff spotlights beef nutrition with pediatric health professionals

Research funded by the beef checkoff has put a spotlight on the continuing need for in-office information to be provided to health professionals,

particularly physicians. Therefore, for the second year, educational tools and handouts on the benefits of beef as a first complementary food for infants was shared with pediatricians, nurse practitioners and physician assistants.

The checkoff-developed materials consisted of a newsletter, exam room poster and consumer booklets with an in-office display. These items were delivered to more than 3,000 new pediatric offices across 32 states. The Kansas Beef Council (KBC) assisted by distributing resources across Kansas and the Kansas City metro.

As part of this program, pre- and post-surveys were conducted. Data found that three-quarters of respondents reported being more likely to recommend beef as an early complementary food after receiving the materials. More than two-thirds had a more favorable impression of beef as an early complementary food due to the program.

This effort is part of a broader attempt by KBC to offer health professionals science-based resources showing how beef can be part of a healthy, balanced diet.

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

The mission statement of Greener Pastures Ranching seems to fit very well with what owner Steve Kenyon shared with participants at the Nebraska Grazing Conference. Really, it should be the mission statement for everyone involved in agriculture. Steve gave the warning that he would offend nearly everyone in attendance, as he challenged some very traditional ways of thinking. Everyone should have walked away with his overarching question of "But what else is it doing?" in the back of mind when looking at pro-

duction practices. Here is the quick summary of my notes that seem to have application for anyone, if you step back and look hard at your operation.

"Are you treating a symptom or a problem?" Resources are often directed to symptoms of problems rather than taking corrective action to fix the root problem. Kenyon challenged everyone to dig into finding problems, address the problem and symptoms will go away as a result. Some examples were: Spraying weedy forbs in an overgrazed grassland. Weeds are a symptom of an unhealthy rangeland due to mismanaged grazing. Fix grazing management, increase healthy grass stand, fix

the weed pressure. Another: soils in nature generally gravitate to neutral pH. Liming acid soils is treatment of a symptom, when the problem is ongoing use of synthetic, chemical fertilizers; instead natural nutrient recycling. Keep your focus on problems.

Who are your employees? Dung beetles, dragonflies, bats, cowbirds, bacteria, actinomycetes, fungi, protozoa and nematodes. Not the folks you think to employ on a regular basis? Kenyon focuses on all the biological processes of land, air, water and invests in natural "ranch employees." He presented evidence that more common production practices actu-

ally harm these natural employees and creates a situation where treating symptoms becomes normal. One item that especially caught my attention was his firm stand that the grazing animal is an integral part of natural nutrient recycling and has to be part of agricultural systems. He noted that in Canada there is a current cost-share program on establishing perimeter fences around crop fields to allow grazing for the benefits it provides to nutrient recycling and healthy soils.

Grazing Management. There was much to digest, but the final thoughts to share today revolve around grazing. Here are the Kenyon Grazing

Principles: maintain a healthy Water Cycle keeping water in and on your soil, Harvest Sunlight for free through healthy perennial plants, Nutrient Recycling systems are the sustainable way to fertilize, Build Biology from top to bottom within the production system and finally, Establish/Support Polycultures for healthy soil.

So, there you have it! Did I offend you? Or at least encourage you to stop and think? This approach to a news column has been a venture into new waters for me and I appreciate the comments and questions received thus far. Most weeks, my goal will be to keep it "between the ditches" of Uni-

versity research-based information, but I always try to keep an open mind to all ideas being tried in the field, and their potential application as well.

Presenters won't dive into these topics specifically, but we would like to invite folks to join us for more grazing discussion at the 2022 edition of Tailgate Talk, at Matt and Marley Hamon's, 5557 190th Road, Valley Falls, 5:30 p.m. on September 13. Details will soon be available on our Meadowlark website and Facebook page. Plan to bring a lawn chair and learn more about weed suppression when grazing cover crops and forage management prior to dormancy.

Raising strong sheep, goat offspring begins during pregnancy

Drought affects the growth and birth weight of lambs and kids — the hardships it causes for pregnant animals reduce placental function and the nutrients available to a developing fetus, according to a Texas A&M AgriLife Research scientist.

Week-old lambs show the difference when a mother received adequate nutrition or when the mother was nutritionally restricted during their pregnancy.

With growing concerns about climate change, Carey Satterfield, Ph.D., an associate professor in the Department of Animal Science, College of Agriculture and Life Sciences, said researchers must be forward-thinking to help protect the small ruminant livestock industry.

"Extreme weather conditions, whether hotter or drier, will impact our animal agriculture, so we need to have strategies available to allow producers to deal with these changes," Satterfield said. "Drought during pregnancy is the biggest cause of nutritional hardship, but heat stress can also cause poor placental function, so that would be a secondary factor we deal with here in Texas. We need to have cost-effective strategies that we can apply to these situations to reduce perinatal mortality as well as enhance postnatal growth and performance."

Satterfield will lead a team in identifying novel ways to improve placental growth and improve birth weight of offspring during these periods of nutritional hardship that are common in ruminant livestock species. The research, supported by a \$500,000 U.S. Department of Agriculture National Institute of Food and Agriculture grant, will test two novel nutraceutical products — citrulline and putrescine — to determine if they improve placental growth and function when supplemented during pregnancy.

Joining Satterfield on the research are fellow Department of Animal Science researchers Guoyao Wu, Ph.D., distinguished professor and AgriLife Research Senior Faculty Fellow; and Fuller Bazer, Ph.D., Regents Fellow, Distinguished University Professor,

Presidential Impact Fellow and holder of the O.D. Butler Chair in Animal Science. Additionally, the team includes Greg Johnson, Ph.D., professor and EDGES Fellow in the Department of Veterinary Integrated Biosciences in the School of Veterinary Medicine and Biomedical Sciences, and Kayla Bayless, Ph.D., associate professor in the Texas A&M Health Science Center Department of Molecular and Cellular Medicine.

Tackling low birth weight
The team is prioritizing the development of cost-effective strategies for producers seeking to improve the birth weight of a fetus, Satterfield said, because low birth weight is the biggest cause of death for small ruminants.

"At least for our sheep and goats, we're a lot more worried about small babies that aren't thrifty; they don't get up, they don't nurse, and then they succumb to the environment or predators," he said. "If these nutritional treatments work, we will have slightly bigger babies that are more vigorous and that should help reduce our death loss."


Satterfield said based on the known functions of citrulline and putrescine in other systems, their hypothesis is they will promote vascular development, but that hypothesis has to be tested. Citrulline is an amino acid and putrescine is a metabolite of

amino acids. Citrulline is a precursor for arginine and is considered conditionally essential.

"In regard to growing a good baby, you have to first have a good placenta," he said. "These nutrients we are providing should stimulate the development of the blood vessels. By doing that, we're basically creating a highway system that's needed to transport the nutrients that the baby's going to need."

Bayless has a very sophisticated cell culture system that can test how nutrients influence angiogenesis, which is the growth of new blood vessels. Johnson, as a histology expert, will be able to quantify the vascular development in the placenta and sheep.

Promoting placenta growth
Satterfield's team will use sheep as their model animal. Some of the pregnant ewes will receive nu-



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trient treatments to see if the fetal development can be rescued or enhanced.

The pregnant sheep will receive supplements throughout placental development, or days 28-84 in their 147-day gestation cycle, he said. The timing during pregnancy will be refined once the proof of concept is complete.

"There are certain times when the animal cannot make enough of these nutrients on its own, and so we know they

need supplementation," Satterfield said. "We will supplement twice a day, based on our previous research of how long it takes for those nutrients to be metabolized in the animal and how long they stay in the system."

Citrulline, the team discovered, isn't degraded in the rumen like other amino acids, which is part of the reason for choosing to use it. Because the supplement doesn't have to be protected or encapsulated

or require advanced treatments, it would be very cost effective, he said.

Once the proof-of-concept work is done, there will be a need for product development, Satterfield said. The product is not widely available, because there hasn't been a reason to use it, but eventually these nutrients could be put into a lick tub or feed supplement and placed in front of pregnant livestock.

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Christmas Greetings Special - Dec. 20th

DEADLINES:

Fall Full of Bulls - September 7th, before Noon
G&G Farm & Ranch Show - Oct. 26th, before Noon
Soil Health - November 2nd, before Noon
Wichita Farm Show - November 23rd, before Noon
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2022 WABAUNSEE CO. FAIR LIVESTOCK GRAND AND RESERVE CHAMPIONS



Grand Champion Market Lamb was awarded to the Champion Cross Breed shown by Kaylee Lukert of the Maple Hill Hustlers 4-H Club. Pictured is the Lukert Family with Judge Rocky Swearingen.



Ty Jones of the Maple Hill Hustlers 4-H Club led the Reserve Champion Market Lamb, which was first selected Reserve Champion Cross Breed. Pictured from left are Rocky Swearingen, Judge, Ty Jones, Hayden Jones and Hadley Jones.



The Supreme Breeding Ewe was shown by Tallie Deever, Happy Valley 4-H Club. Pictured from left are Rocky Swearingen, Judge, Tate Deever and Tallie Deever.



Tatum Miller, Maple Hill Hustlers 4-H Club, exhibited the Reserve Champion Breeding Ewe.



Sheep Showmanship winners pictured with Judge Rocky Swearingen were: Kasen Breiner (Reserve Champion Junior, Happy Valley 4-H Club), Hayden Jones (Grand Champion Junior, Maple Hill Hustlers 4-H Club), Tallie Deever (Reserve Champion Intermediate, Happy Valley 4-H Club), Ty Jones (Grand Champion Intermediate, Maple Hill Hustlers 4-H Club), Tate Deever (Reserve Champion Senior, Happy Valley 4-H Club), Kaylee Lukert (Grand Champion Senior, Maple Hill Hustlers 4-H Club).



Kade Mayer of the Happy Valley 4-H Club showed the Grand Champion Bucket Calf. Also pictured is Madeline Mayer.



Kinsley Michaelis, Maple Hill Hustlers 4-H Club, was at halter of the Grand Champion Market Beef. Pictured is the Michaelis family with Judge Dean Klahr.



Grace Zeller, Maple Hill Hustlers 4-H Club, showed the Reserve Champion Market Beef. Pictured from left are Ty Zeller, Dean Klahr (Judge), Grace Zeller, Trey Zeller.



Bradyn Greenwood, Happy Valley 4-H Club, showed the Supreme Champion Breeding Heifer. Also pictured is Laynee Greenwood.

CONGRATULATIONS
TO ALL LOCAL 4-H YOUTH ON A SUCCESSFUL FAIR!

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The Reserve Supreme Champion Breeding Heifer was shown by Bradyn Greenwood, Happy Valley 4-H, pictured with judge Dean Klahr.



Beef Showmanship winners shown with judge Dean Klahr were Jalyn Davis (Grand Champion Senior, Maple Hill Hustlers 4-H Club), Brinley Davis (Grand Champion Intermediate, Maple Hill Hustlers 4-H Club), Cash Michaelis (Grand Champion Junior, Maple Hill Hustlers 4-H Club).

Congrats Wabaunsee County 4-H'ers!

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GRASS & GRAIN



Anna Green of the Friendly Farmers 4-H Club showed the Grand Champion Breeding Doe. Also pictured are Rocky Swearingen, Judge, and Zane Green.



The Reserve Champion Dairy Goat was shown by Anna Green, Friendly Farmers 4-H Club, pictured with Rocky Swearingen, Judge and Zane Green.

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Congratulations on your 4-H participation and accomplishments!

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www.kscrossroads.com



The Grand Champion Dairy goat was shown by Madelynn Stanko of the Newbury 4-H Club, shown with judge Rocky Swearingen.



Rocky Swearingen awarded Reserve Champion Dairy Goat honors to the entry shown by Anna Green, Friendly Farmers 4-H Club, pictured with Zane Green.



Showing the Grand Champion Market Goat was Aubrey Imthurn, Maple Hill Hustlers 4-H Club. Pictured are, from left: Rocky Swearingen, Judge, Colton Imthurn, Casey Imthurn, Aubrey Imthurn.



Judge Rocky Swearingen selected as the Dairy Showmanship winners Nova Duehring (Grand Champion Intermediate, Friendly Farmers 4-H Club), Madelynn Stanko (Grand Champion Junior, Newbury 4-H Club), Anna Green (Reserve Champion Junior, Friendly Farmers 4-H Club).



Lillyan Wilson, Maple Hill Hustlers 4-H Club, exhibited the Reserve Champion Breeding Doe. She is shown with judge Rocky Swearingen.



Avry Thowe of the Newbury 4-H Club led the Reserve Champion Market Goat. She is pictured with judge Rocky Swearingen.



Lillyan Wilson, Maple Hill Hustlers 4-H Club, drove the Grand Champion Market Hog. Pictured from left are Joe Leibbrandt (Judge), Lillyan Wilson, Colton Appelhanz.



Meat Goat Showmanship winners pictured with judge Rocky Swearingen were: Neely Castillo (Grand Champion Junior, Happy Valley 4-H Club), Hadley Jones (Reserve Champion Junior, Maple Hill Hustlers 4-H Club), Lillyan Wilson (Grand Champion Intermediate, Maple Hill Hustlers 4-H Club), Nova Duehring (Reserve Champion Intermediate, Friendly Farmers 4-H Club), Aubrey Imthurn (Grand Champion Senior, Maple Hill Hustlers 4-H Club), Avry Thowe (Reserve Champion Senior, Newbury 4-H Club).



The Reserve Champion Market Hog was shown by Danica Davis, Maple Hill Hustlers 4-H Club. Pictured are Joe Leibbrandt, Judge, Jalyn Davis, Danica Davis and Brinley Davis.



William Lukert, Maple Hill Hustlers 4-H Club, drove the Grand Champion Breeding Gilt. Pictured is judge Joe Leibbrandt and the Lukert family.

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Go To grassandgrain.com

AUCTION Reminder

SATURDAY, SEPTEMBER 10, 2022 — 10:00 AM
LOCATION: 1000 West Scott St, Gage Co. Fairgrounds, 4-H Inc Bldg BEATRICE, NEBRASKA

100s OF COCA COLA COLLECTIBLES inc.: (2) Ertl 22" long Coca Cola semi-trailer (1) Precision; 36" chrome "Enjoy Coca Cola" logo round pedestal table w/2-chairs & 2-stools; red metal 30" 5-tier display stand "Always Coca Cola"; (6) Ertl small trucks & others; (22) sport figurines; dome top 12" counter-top radio; wall mount 14" clock w/neo high light; miniature 4-chair ice cream set; cookie jars; Dale Earnhardt, Revelle 5-Pc train set w/cars; 5' lighted Coca Cola ornament decorated tree; Glassware; decorative tins; 2-horse team w/iron wagon; small wall mount juke box; Tins; "Coke Is It" 1982 Husker Big Red record; (5) Match Box cars; lighted Coke items; Santa Claus Husker collectibles 2004-2020 & **MANY MORE COCA COLA ITEMS.**

ANTIQUE & COLLECTIBLES: Vintage wooden door w/frosted/etched glass lady; vintage stained glass window; Fairbanks No. 11 brass 5-bar platform scale (Exec.); New Perfection 3-burner oil stove; "Enjoy Coca Cola" 36"x45" sign; Coca Cola metal wall mount 28" bottle thermometer; Budweiser S&Ps; wood corn planter; Stanley wood level; Road Runner lunch pail; Case metal tool box & planter lid; blue fruit jars; **CROCKS:** Daisy #60 glass churn; Wash Co Co-op brass plate #14 5-gal cream can (Exec.); Singer treadle iron sewing base w/oak top; 40s-50s 33 1/3 records; plastic auto racing marble game; & **MORE.**

****BUDWEISER STEIN COLLECTION**** (All in good condition)

NORM & KAREN MORTENSEN PHONE: 402-876-5461

See last week's Grass & Grain for Listings & Log on to: www.beatrice77.net (Click on The Auctioneers) FOR AUCTION LISTING w/PICTURES!
Clerks: TON - SOL Clerking, Ph: 402-239-8741

THE AUCTIONEERS * Beatrice, Nebraska
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THE AUCTIONEERS FOR COMPLETE AUCTION SERVICE!

AUCTION

SUNDAY, SEPTEMBER 11, 2022 — 10:00 AM
Auction will be held in Kenwood Hall at the Saline Co. Expo, 900 Greeley, SALINA, KS

INDIAN ARTIFACTS, GUNS & COLLECTIBLES
Indian and western items; Sioux buckskin legging; Northwest Indian mittens; Indian beaded pouch & puzzle bag; arrowheads; scrapers; hammer; other Indian pieces; 1880s gun belt; African beaded breast plate; Will & Finch SF Cal scouts knife; Indian dog knives; USIS (United States Indian Service) necker-chief; Bowie knives; RS Cearnal Gainsville Tx. 44 cal shell holder; Wild Bill Hickock tin type; other cowboy pictures; Jim Bower signed picture; powder horn; quilts; police sap; Martha Jane Connary book w/gun holder; Abilene jail key; Indian pottery & vases;

Kachina dolls; Navajo necklaces; Railway Express Agency porcelain sign; early horsehair lap robe; leather pillow; Old Cabin whiskey bottle; 2 cigar jars; **GUNS:** Savage 308 Axis w/Weaver scope; Browning Gold Hunter Turkey Special 12 ga.; Rossi 38 special 357 mag lever model R92; Ruger 10-22 22; Ruger LCP22 long never fired; Bond 45 long Colt/45 Snake Slayer model; Ruger 22 LRW Rangler; Remington 1911 45 pistol; Daisy 105B BB gun; shoulder holster; ammo inc: 45 auto, 357, 308, 22, 410; Jaguar 175 bow w/scope & arrows; Browning fly rod; machete; deer calls; gun cleaning; 5 day survival kit; 4 man tent; hunting jackets; Royal Copley collection (vases, chickens, animals, birds, other); Kansas collectibles (seals, medallions, buckles, other); Elvis pictures; Snowmen; Halloween items; Melmac Mallo-ware; Harry Potter items; Jade eggs & other oriental; wicker stands; Boyds bears; Onyx animals & figures; eggs onyx & hand painted; Dahlia horse; dolls inc: Shirley Temple, Barbie, Ken, Madge, Skipper; nut crackers; Russian items; milk glass; Jager; assortment costume jewelry; Occupied Japan; blue bottles; glass birds; Lenox; Wedgewood; Fenton; Snow babies; brass; linens; Cameo pins; display cabinet; Elephants; large assortment of other collectibles.

NOTE: There are many unique Indian items. The guns, and Indian items will sell first at 10:00 a.m. Check our website for pictures at www.thummelauction.com

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

AUCTION

SATURDAY, SEPTEMBER 10, 2022 — 9:00 AM
Auction will be held in Kenwood Hall at the Saline Co. Expo, 900 Greeley, SALINA, KS

1920s Coca Cola salesman sample cooler; Lion coffee box; oak 4 section stacking bookcase; 5 drawer spool cabinet; oak curved glass secretary; oak gentlemen's dresser; cherry chest w/marble top; cherry server; oak highboy; oak buffet; oak step back cupboard; oak parlor table w/claw ball feet; oak love seat; library table; Mission Oak rocker; 20s dining table & chairs; 20s buffet; 20s barrel type end table; 20s walnut desk; 1 door curio cabinet; display cabinet; wash stand; plant stand; child's folding high chair; cedar chest; bow back chairs; spinning wheel; oak rocker; oak bed; easel; stick & ball magazine rack; Grape Julep dispenser damaged; 3 gal Red Wing churn; 5 gal Red Wing canning jar; crock jugs; sponge bowls; blue & white Indian pitcher, salt crock, spice set, butter; straw holder; piano lamp; stain glass lamp; many lamps kerosene & electric; blue dot lamp; glass churns; tobacco tins; Lee tin; bracket lamp; malt mixer; assortment good pictures; South West picture; Crystal wall coffee grinder; **Glass: Very Large Collection inc:** Fenton; Van Briggie; carnival; art glass vases; Vaseline pieces; powder jars; steins; red glass; Bohemian pieces; table sets; Candlewick; hand painted pieces; Haviland china; chocolate pots; flow Blue plates; American Fostoria; stemware; Glasco advertising items; set turkey dishes; large collection clear glass; perfume bottles; Frankoma pieces;

sugar jar; glass shoe collection; birds on nest; tea pots; butter dishes; glass bells; Florence Lady figures; cookie jar collection; assortment dolls; linens; Hummels; Cupid pictures; silver items; Muehlebach beer tray; Disney items; Pooch books; mantel clock; cuckoo clock; oak kitchen clock; Costume jewelry; turquoise jewelry; chicken collection; ladies leather shoes; Disney items; material; stamp collection; large collection of Christmas, Thanksgiving, Easter, other; wood sugar bucket; egg basket; blue & white granite pieces; iron trivets; spoon collection; sleigh bells; baskets; Fisher Price toys; wood blocks; 50s JD tractor; toy trucks; **Very large collection of other items.**

Note: This is a very large collection with many of everything. This is a very quality collection. We are starting early. Check our website for pictures at www.thummelauction.com

PATRICIA JONES TRUST

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

PERSONAL PROPERTY AUCTION

TRUCKS * TRACTOR * MOTORCYCLE * TOOLS * ANTIQUES * SIGNS & MORE!

SATURDAY, SEPTEMBER 17, 2022 — 10:00 AM
LOCATION: 21665 Savannah Road, HAVENSVILLE, KANSAS 66432
DIRECTIONS: Take Havensville Road West 2.5 miles off of HWY 63 to Savannah Road, go North on Savannah Road .05 miles.

Large items including trucks, tractor and bikes to sell at 12:00pm

VEHICLES & TRACTOR: Polaris Trailboss 250 (does not run), John Deere LA115 mower, 1981 Kawasaki KZ650 motorcycle, Kymco People model 50 scooter, Chevrolet step van, 5th wheel camper, moped, International R 190 truck, Farmall 300, 2001 Chevrolet Silverado 1500 (approx. 185,000mi.) Z71 4x4 Miles will go up before sale.

ANTIQUES & HOUSEHOLD: Horseshoe hangers, jars, misc. cast iron, oversize load sign, shell sign, helmets, speed limit and other roadway signs, Pyrex, China, crock bowls, crocks, Christmas décor, glassware, trunks, wash tub, kerosene stove, antique radio, pachinko machine, arcade game machine, water meter cover, nativity scene, oil lanterns, cast iron bed frame, chairs, misc. bedroom furniture, misc. furniture, drum set, Coke cooler, Sears & Roebuck wagon, Radio Flyer wagon, Edison phonograph, Seagram's coolers shelf, cream cans, piano, china hutch, buffet, mantle clocks, electric keyboard, very nice glassware pieces, vinyl records, rocking chair, candy dishes, costume jewelry, **more items to be discovered!**

TOOLS, & MORE: Misc. hand tools, shovels, rakes, etc., levels, bottle & screw jacks, toolboxes, Magna Force air compressor, wiper blade display, Caterpillar oil drum, jumper cables, air hoses, ladders, antique drill press, roto tiller, sockets deep well and standard multiple drives, feeler gauges, multiple wrench sets, RIGID pipe wrenches, ratcheting wrenches, wire brushes, hand saws, locking pliers, fittings, hoses, grinder wheels, misc. painting supplies, levels, floor jack, stringlines, extension cords, straps, 5 gallon buckets, treble lights, tarps, pressure washer, power tools, grinders, space heaters, grease guns, funnels, allen keys, drill bits, tap and die sets, corded impact, **more items yet to be discovered!**

AUCTIONEER'S NOTE: Being long time residents of Pottawatomie County they have amassed a great and versatile collection that we're proud to bring to you by way of auction!

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.

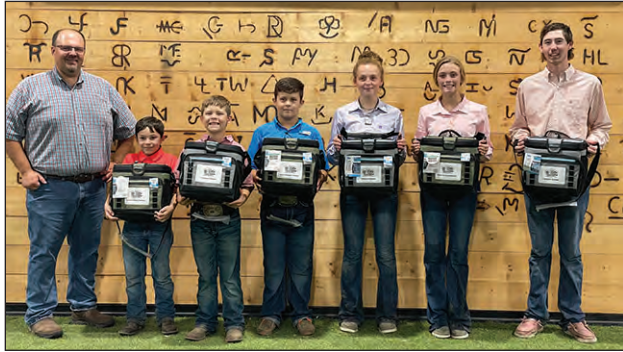
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Brogran Stamm, Happy Valley 4-H Club, exhibited the Reserve Champion Breeding Gilt at the Wabauunsee County Fair. Shown from left are Joe Leibbrandt, Judge, Jay Stamm, Brogran Stamm and Kelsey Stamm.



Swine Showmanship winners pictured with judge Joe Leibbrandt were: Tyce Cowan (Reserve Champion Junior, Maple Hills Hustlers 4-H Club), Casey Imthurn (Grand Champion Junior, Maple Hill Hustlers 4-H Club), Colton Imthurn (Reserve Champion Intermediate, Maple Hill Hustlers 4-H Club), Danica Davis (Reserve Champion Senior, Maple Hill Hustlers 4-H Club), Taegan Miller (Grand Champion Senior, Maple Hill Hustlers 4-H Club).



Horse Speed Events winners were, from left: Jolie Stephenson (Grand Champion Junior, Friendly Farmers 4-H Club), Kade Mayer (Reserve Champion Junior, Happy Valley 4-H Club), Bradyn Greenwood (Grand Champion Intermediate, Happy Valley 4-H Club) Bristol Miller (Reserve Champion Intermediate, Maple Hill Hustlers 4-H Club), Kylee Jacobson (Reserve Champion Senior, Friendly Farmers 4-H Club), Kaylee Lukert (Grand Champion Senior, Maple Hill Hustlers 4-H Club).

U.S. military bases to serve plant-based protein

An amendment to the National Defense Authorization Act for the 2023 fiscal year would create a pilot program by March 2023 that could require

the U.S. Navy to serve plant-based protein options at bases "where livestock-based protein options may be costly to obtain or store," the amendment states.

According to Navy Times, following a three-year pilot period, the Navy secretary would report to the House and Senate Armed Services Committees the following information: the consumption rate of plant-based protein options by sailors at bases in the pilot program, effective criteria to increase vegan meat offerings at other Navy bases, and a comparative analysis of the costs to buy, store and serve plant-based protein versus those for regular meat.

Troops at participating bases would still have access to animal proteins.



Winners in Horse Performance were, from left: Jolie Stephenson (Grand Champion Junior, Friendly Farmers 4-H Club), Brody Greenwood (Reserve Champion Intermediate, Happy Valley 4-H Club), Bradyn Greenwood (Grand Champion Intermediate, Happy Valley 4-H Club), Kylee Jacobson (Reserve Champion Senior, Friendly Farmers 4-H Club), Kaylee Lukert (Grand Champion Senior, Maple Hill Hustlers 4-H Club).

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MULTI-PROPERTY REAL ESTATE
Wakarusa, Kansas (Just South of Topeka, KS)
WEBCAST ONLINE ONLY AUCTION
THURSDAY, SEPTEMBER 22, 2022 — 7:00 PM

Location of Tracts: From SW Topeka Blvd. & SE 85th, go 1/4 mi. East on 85th to TRACT I - 1/2 mi. East to TRACT II. Tract III at the NE corner of 85th & Adams Road.

* TRACT I: 80 AC. +/- with improvements - 424 SE 85th
* TRACT II: 80 AC. +/- with improvements - 626 SE 85th
* TRACT III: 160 AC. +/- Mostly Native Grass Pasture

INSPECTION DATES: Tuesday, September 6, 5-7 PM & Sunday, September 11, 1-3 PM

*****INFORMATION & BIDDING*****
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Andy Conser, Covenant Real Estate & Auction LLC, 785-806-6921
OR Superior Real Estate & Land Group, Wayne Wischropp, 785-828-4212

SELLERS: The Family of BOB DAY



Horse Showmanship winners were, from left: Kaylee Lukert (Champion Senior, Maple Hill Hustlers 4-H Club), Kylee Jacobson (Reserve Champion Senior, Friendly Farmers 4-H Club), Teagan Ellis (Champion Intermediate, Newbury 4-H Club), Brody Greenwood (Reserve Intermediate, Happy Valley 4-H Club), Jolie Stephenson (Champion Junior, Friendly Farmers 4-H Club), Paisley Ellis (Reserve Junior, Newbury 4-H Club).

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Cows: \$55-\$94.00; Bulls: \$112-\$117.00.

HEIFERS			
13 blk	483@190.00	7 blk	651@189.00
6 Red	536@185.00	27 mix	644@187.00
9 blk	614@182.00	4 blk	664@180.50
9 bkbw	669@173.00	5 mix	656@177.00
12 mix	674@173.00	24 blk	684@175.50
10 Char	661@171.50	4 mix	640@166.00
6 blk	688@168.50	15 blk	706@185.25
3 mix	638@168.00	6 mix	742@182.00
6 mix	644@166.00	5 blk	748@178.50
4 blk	666@165.00	3 blk	722@178.00
7 Char	619@163.00	3 blk	732@177.00
25 mix	745@172.50	33 blk	765@175.50
6 blk	724@171.50	27 blk	777@171.75
5 blk	776@171.00	4 mix	780@169.00
14 mix	737@170.00	33 blk	836@176.00
6 blk	728@169.00	7 bkbw	816@174.00
40 mix	819@168.50	42 mix	846@173.00
7 mix	814@166.00	9 blk	858@173.00
3 mix	838@164.50	8 blk	873@172.00
7 Char	838@164.00	18 mix	850@169.00
3 blk	905@162.00	58 mix	894@168.00
3 blk	958@160.00	3 mix	895@164.00
5 blk	937@158.00	8 blk	917@171.00
10 mix	1058@153.00	15 blk	926@170.75
17 blk	1050@144.00	60 mix	928@170.00
		3 blk	937@169.00
		11 blk	973@168.00
		10 blk	950@167.00
		11 bkbw	952@167.00
		11 mix	952@166.00
		14 mix	938@165.00
		34 blk	954@165.00
		11 mix	980@163.00
		12 blk	1028@164.00
		7 mix	1034@159.50
STEERS			
4 blk	324@236.00		
3 blk	422@216.00		
3 blk	550@216.00		
3 blk	505@214.00		
3 mix	563@206.00		
11 mix	586@200.00		
4 mix	563@195.00		

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DALTON HOOK, Field Representative, 785-219-2908
WIBW 580 - 6:45 A.M. Thurs; KVOE 1400 - 6:30-6:45 A.M. Thurs. & Fri.
To see more consignments go to: emporialivestock.com

AUCTION
SATURDAY, SEPTEMBER 17, 2022 — 10:00 AM
1620 27th Road, WAVERLY, KANSAS
TRACTORS, ATV, CAR TRAILER, SHOP & LIVESTOCK ITEMS

- Massey Ferguson 2615 Tractor, diesel, MFWA, WF, 3 pt. ROPS w/DL250 Loader, bucket, bale fork, 864 hrs.
- Massey Ferguson 4345 Tractor, diesel, WF, cab, 3 pt., app. 1600 hrs.
- Ford 8000, diesel, WF, 3 pt., 540 & 1000 PTO, 18.4"x38" tires, duals, 6860 hrs.
- Massey Ferguson 65, gas, 3 pt. w/Loader
- 2002 Arctic Cat 4001 4-Wheeler, 2WD
- 2001 Car Trailer, 18', folding ramps, bumper hitch
- Stock Trailer, 5'x14', open pt., Oak floor, bumper hitch
- NH TR85 Combine, Cat 3208, 24.5"x32" tires, like new
- NH Grain head, 15'; NH corn-head, 4R 36"; Bush Hog rock picker, 42"; field sprayer, 300 gal. poly; Krause 9-shank chisel, 3 pt.; IH #1100 sickle mower, 9'; pull-type; Lilliston cultivator, 4-row; (2) AC roto balers; King Kutter rotary mower; MF #33

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See: www.kansasauctions.net for sale bill & pictures
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Jack White, Melvern & Buddy Griffin, Williamsburg

AUCTION
SATURDAY, SEPTEMBER 10, 2022 — 9:00 AM
Offering for sale at Public Auction, located at 200 N. Poplar, (Wheat Building), GOESEL, KANSAS

CAR, FURNITURE, COLLECTIBLES & HOUSEHOLD ITEMS
1999 Buick Park Avenue 4 door car, 3.8 supercharger, 237K, new injector; Oak dresser & mirror; Oak oval mirror; wicker tea cart; side table; 2 tier table; wardrobe; piano stool; floor lamp; china cabinet; drop leaf table, 4 leaves, 2 chairs; dbl. bed; matching Cherry coffee table & lighted curio cabinet; glider; Cherry lighted curio cabinet; 4 dining room chairs; lg. Oak frame picture; embroidered vanity set; floral globe lamp; Evening in Paris perfume collection; Shawnee items including: lamps; fruit bowls, salt & peppers, deer planter, cookie jar, measuring spoon holder & spoons; Roseville bowl; Bauer green bowl; Miss America sesherts; Pyrex; enamelware; Fenton; Hamilton Beach microwave; sewing machine; Cuisinart mixer; heated fan; waffle iron; paper shredder; flatware; glasses; kitchenware; table cloths; seasonal decor; misc. tools & more.

JEAN OBLANDER, SELLER
WOODWORKING EQUIPMENT, SHOP & TOOLS
Grizzly mo. T25926 10"x18" wood lathe; Makita miter saw; Rockwell 4" jointer; Performax miter saw; Hitachi router & table; DeWalt, Hitachi & Senco nail guns; cordless drills; air sander; Porter Cable palm sanders; Kobalt spray gun; Craftsman rollaway toolbox; Northern Industrial wet sharpener; B&D dove tail machine; numerous wood clamps; organizers; sm. vise; router bits; Forstner bits; tape measures; wood chisels; hand saws; planes; brace & bits; socket sets; end wrenches; screwdrivers; hardware; & more.

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TERMS: Cash day of sale. Statements made day of sale take precedence over advertised statements.

JC LIVESTOCK SALES INC.
Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Report from August 31st, 2022

STEERS	2 Red	518	185.00		
6 mix	407	217.00	19 mix	672	182.00
7 bk bwf	528	206.00	10 mix	747	174.00
4 mix	585	203.50	24 mix	764	167.00
17 blk	673	198.00	4 blk X	1010	142.00
18 mix	716	186.00			
55 bk Rd	733	186.00	TOP BUTCHER COW:		
68 blk	835	180.00	\$95.50 @ 1,540 LBS.		
12 mix	915	172.25	TOP BUTCHER BULL:		
	HEIFERS		\$113.50 @ 1,980 LBS.		
6 blk X	408	192.00			

EARLY CONSIGNMENTS FOR SEPT. 7
• 70 blk X hrs 750-800#
PLUS MORE BY SALE TIME!

STARTING SEPTEMBER 1ST,
HOGS WILL ONLY BE SOLD THE
1ST WEDNESDAY OF THE MONTH!
CALL WITH QUESTIONS: 785-238-1471

FIRST SPECIAL FALL CALF SALE:
MON., OCT. 10 @ 6:30 P.M.

Watch online with cattleusa.com (Tab J.C. Livestock Sales)
Must register to bid.

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

Report from August 30th, 2022

STEERS	13 blk	548	188.00		
11 blk	494	232.00	18 blk	565	186.00
5 blk	456	228.00	7 mix	638	181.75
11 blk	515	214.50	17 mix	689	179.00
8 blk	575	203.00	5 blk	3	176.00
10 blk	671	202.00	24 mix	881	166.75
18 mix	739	200.00	TOP BUTCHER COW:		
13 mix	784	188.00	\$98.50 @ 1700 LBS.		
67 mix	805	187.50	TOP BUTCHER BULL:		
55 blk	836	184.25	\$106.00 @ 1945 LBS.		
69 blk	904	179.50			
111 mix	925	179.25	BRED COWS:		
59 mix	970	170.25	\$1200 - \$1550		
	HEIFERS				
9 mix	473	197.00			
2 blk	530	194.00	PAIRS: \$1450 - \$1850		

NO SALE TUES., SEPT. 6
Due to Labor Day Holiday

JUNCTION CITY, KANSAS • Barn Phone 785-238-1471
Seth Lauer 785-949-2285, Abilene

Clay Center, Ks • Barn Phone 785-632-5566
Clay Center Field Representatives:
Tom Koch, 785-243-5124 Lance Lagasse, 785-262-1185

KARL LANGVARDT Cell: 785-499-2945	MITCH LANGVARDT Cell: 785-761-5814	LYNN LANGVARDT Cell: 785-761-5813
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Radio Market Reports KFRM 550 Tues. & Wed. 8:00 am

K-State, Wheat Rx arm producers with the knowledge they need to successfully select this year's wheat varieties

The potential for next year's wheat harvest kicks off with deciding which varieties to plant, and the annual release of the Kansas Agricultural Experiment Station's data provides critical insights into helping Kansas producers make that decision.

"Using data to help se-

lect the right varieties for your growing region, crop rotation and management goals is the first step to having a successful harvest," said Aaron Harries, Kansas Wheat vice president of research and operations. "But there's a lot of choices, especially as public and private breed-

ing programs release new varieties every year. The annual K-State report is one tool for producers to help make these decisions, especially as it is not feasible for growers to individually test every variety on their own."

The Kansas Agricultural Experiment Station

compiles field trial results each year, sharing a recap of the past year's growing season — including weather, insect and disease pressure — and, most importantly, data and insights comparing new and currently grown wheat varieties across the different regions of Kansas.

The report provides unbiased performance test results to help Kansas wheat producers select the optimal varieties for their operations. K-State does not endorse or recommend varieties, but instead, compares the data from scientifically conducted performance tests at several sites. K-State also includes information on other greenhouse and laboratory tests, including pest tolerance, baking quality and other factors.

Another benefit of the Kansas Agricultural Experiment Station's reporting is the ability to track how currently planted varieties have performed over time. Growers can quickly highlight which varieties have consistent performance through replicated trials in their region.

Kansas Wheat Rx — a program that disseminates to Kansas wheat farmers the latest research recommendations for producing high-yielding and high-quality wheat — provides additional guidance on how producers can use information like the annual K-State report to select the best varieties. Follow these suggested steps for successful variety selection:

and try to identify varieties that have strong ratings for tolerance or resistance to them.

5. Determine if the group of varieties has been tested for milling and baking quality and try to choose the varieties with above-average ratings.

6. From this group, pick the top three or four varieties, depending on farm acreage, based on yield in performance and strengths and weaknesses that match the needs in each field.

Another resource available to producers is the "Wheat Varieties for Kansas and the Great Plains — Your Best Choices" book, published annually by 34 Star Publishing. This book provides objective ratings and yield results on all the current wheat varieties for Kansas, Oklahoma, the Texas Panhandle, southern Nebraska and eastern Colorado. The book is included as a benefit for members of the Kansas Association of Wheat Growers and has just recently been sent out. To get your copy, visit <https://the wheatfarmer.com/wheat-varieties/book/>.

1. Review yield data from regional trials located in the area of interest for several years to find varieties that consistently rise toward at least the top third or quarter in yield performance. Avoid relying on data from one location or only one year of testing, as this information can be misleading.

2. Once a list of consistent yielders for a region is developed, think about which systems these varieties are going to be established into each field (e.g., dual purpose, after corn, or late planted after soybeans).

3. For each system, think about which production problems have reduced the yield potential of the crop over the past five years. For instance, for wheat after corn, it may be Fusarium head scab, while for wheat after soybeans it may be a lack of fall growth; meanwhile, stripe rust or drought may be a problem in both systems.

4. Once these problems are recognized, go back to the list of high-yielding varieties

and try to identify varieties that have strong ratings for tolerance or resistance to them.

5. Determine if the group of varieties has been tested for milling and baking quality and try to choose the varieties with above-average ratings.

6. From this group, pick the top three or four varieties, depending on farm acreage, based on yield in performance and strengths and weaknesses that match the needs in each field.

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"It takes a considerable effort, careful study and good judgment to make informed decisions on what varieties to plant," Harries said. "But when combined with a grower's experience with how varieties have performed on their fields, field trial data helps producers start the growing season off on a good start, Mother Nature permitting."

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Grass & Grain Weather Report Sept. 7, 2022

Seven Day Forecast	In-Depth Local Forecast	Today's Local Outlook																																
<p>WEDNESDAY Mostly Sunny High: 90 Low: 64</p> <p>THURSDAY Partly Cloudy High: 88 Low: 62</p> <p>FRIDAY Partly Cloudy High: 88 Low: 61</p> <p>SATURDAY Cloudy High: 87 Low: 62</p> <p>SUNDAY Cloudy High: 85 Low: 58</p> <p>MONDAY Few Showers High: 83 Low: 59</p> <p>TUESDAY Mostly Cloudy High: 84 Low: 57</p>	<p>Today we will see mostly sunny skies, high of 90°, humidity of 49%. Southeast wind 2 to 6 mph. The record high for today is 103° set in 2013. Expect mostly clear skies tonight, overnight low of 64°. Southeast wind 2 to 6 mph. The record low for tonight is 43° set in 2011.</p> <p>Last Week's Almanac</p> <table border="1"> <thead> <tr> <th>Date</th> <th>HI/LO</th> <th>Normals</th> <th>Precip</th> </tr> </thead> <tbody> <tr> <td>8/26</td> <td>96/69</td> <td>88/63</td> <td>0.00"</td> </tr> <tr> <td>8/27</td> <td>91/72</td> <td>88/63</td> <td>0.26"</td> </tr> <tr> <td>8/28</td> <td>95/69</td> <td>87/62</td> <td>0.04"</td> </tr> <tr> <td>8/29</td> <td>94/68</td> <td>87/62</td> <td>0.00"</td> </tr> <tr> <td>8/30</td> <td>92/63</td> <td>87/62</td> <td>0.00"</td> </tr> <tr> <td>8/31</td> <td>92/58</td> <td>87/61</td> <td>0.00"</td> </tr> <tr> <td>9/1</td> <td>95/60</td> <td>86/61</td> <td>0.00"</td> </tr> </tbody> </table> <p>Rainfall 0.30" Normal rainfall 1.13" Departure -0.83" Average temp 79.6° Average normal 74.6° Departure -45.0°</p>	Date	HI/LO	Normals	Precip	8/26	96/69	88/63	0.00"	8/27	91/72	88/63	0.26"	8/28	95/69	87/62	0.04"	8/29	94/68	87/62	0.00"	8/30	92/63	87/62	0.00"	8/31	92/58	87/61	0.00"	9/1	95/60	86/61	0.00"	<p>Washington 88/65</p> <p>Blue Rapids 90/63</p> <p>Seneca 90/62</p> <p>Clay Center 90/64</p> <p>Manhattan 90/64</p> <p>Wamego 90/64</p> <p>Ogden 90/62</p> <p>Junction City 90/64</p> <p>Abilene 90/63</p> <p>Council Grove 89/64</p>
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Local UV Index	Weather History	Growing Degree Days																																
<p>0-2: Low, 3-5: Moderate, 6-7: High, 8-10: Very High, 11+: Extreme Exposure</p>	<p>Sept. 7, 1970 - A lightning bolt struck a group of football players at Gibbs High School in St. Petersburg, Fla., killing two people and injuring 22 others. All of the 38 players and four coaches were knocked off their feet.</p>	<table border="1"> <thead> <tr> <th>Date</th> <th>Degree Days</th> <th>Date</th> <th>Degree Days</th> </tr> </thead> <tbody> <tr> <td>8/26</td> <td>32</td> <td>8/30</td> <td>27</td> </tr> <tr> <td>8/27</td> <td>31</td> <td>8/31</td> <td>25</td> </tr> <tr> <td>8/28</td> <td>32</td> <td>9/1</td> <td>27</td> </tr> <tr> <td>8/29</td> <td>31</td> <td></td> <td></td> </tr> </tbody> </table>	Date	Degree Days	Date	Degree Days	8/26	32	8/30	27	8/27	31	8/31	25	8/28	32	9/1	27	8/29	31														
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REAL ESTATE & PERSONAL PROPERTY AUCTION

SATURDAY, SEPTEMBER 17, 2022 — 9:00 AM
9019 NW 66th Street — SILVER LAKE, KANSAS
PRIME REAL ESTATE LOCATED IN NORTHWEST SHAWNEE COUNTY.



TRACT 1: 7.64 acres more or less with 2 bedroom ranch-style home that needs some work.
TRACT 2: 5.83 acres more or less grass & timber on paved road. Water is available. RWD District No. 2. Zoned RA-1. Silver Lake schools.

Real estate will be offered at 12:00 PM.
Preview: Sunday, September 11, 2-4 PM.

Darrell Simnitt
Countrywide Realty, Inc.
Simnitt Real Estate & Auction, Inc.
785-231-0374



TOOLS: Craftsman miter saw, Central Machinery 14"x40" wood lathe w/6" sanding disc, Central Machinery 4"x36" disc sander, Chicago Electric 10" table saw, bench grinder, bench polisher, Central Machinery 5 spd. bench drill press, drill master grinder, Wen band saw, Rong Fu RF-30 drilling & milling machine, air compressors, engine hoist, floor jack, Porter Cable circular saw, 12 ton shop press, Western Arcronics welder, old Snap-On tool chest, Crafts tool chest, large selection of Snap-on, Bluepoint, Craftsman, etc., hand tools

-wrenches, socket sets, pliers, screwdrivers, test kits, torque wrenches, files, punches, pullers, various clamps, levels, wire brushes, hammers, mallets, work lights, lathe tools, Power-built serpentine belt tool kit, tape measures, step ladders, Globe Stimpson scale & much more.

COLLECTIBLES & HOUSEHOLD: Model railroad collectibles, many in individual display cases, (see website for photos), 2 model train dioramas in glass display cases, model train accessories, BNSF railroad tools, diecast cars, plastic model kits, figurines, wall hangings, Santa Fe railroad collector plates, old upright piano, DJ system (multiple speakers and mixing board), treadmill, Centurion gun safe, Whirlpool washer & dryer, chest freezer, headboard & bed frame, storage trunk, misc kitchen & household items, 8mm oak color laminate flooring, misc signage & much more.

*** Personal Property starts at 9 AM ***

Personal Property by: **Chance Lammer, Auctioneer * L & H Auctioneers * 785-633-1022**

www.simnittauction.com

DON'T MISS THESE (AND MANY OTHER) EXHIBITORS:

November 8-9-10
at the National Guard Armory
Manhattan, KS




Like Grass & Grain Farm & Ranch Show on for more

Sell At St. Marys

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

We sold 2219 cattle August 30. Steer and heifer calves were in good demand at steady to \$5.00 higher prices. Feeder steers and heifers sold steady to \$3.00 higher. Cows and bulls were steady to \$5.00 higher.

STEER & BULL CALVES	HEIFER CALVES	STOCKER & FEEDER STEERS	STOCKER & FEEDER HEIFERS
4 blk str 493 @ 231.00	8 blk/bwf hfrs 432 @ 210.00	74 blk/bwf str 598 @ 209.50	24 blk/bwf hfrs 563 @ 195.00
4 blk str 403 @ 221.00	6 blk hfrs 439 @ 208.00	2 blk str 553 @ 208.00	3 blk hfrs 598 @ 192.00
12 blk/bwf str 485 @ 220.00	9 blk/char hfrs 477 @ 205.00	2 blk str 580 @ 204.00	7 blk hfrs 580 @ 192.00
8 blk/red str 451 @ 217.00	6 blk hfrs 401 @ 203.50	19 blk str 660 @ 203.50	8 blk hfrs 571 @ 190.00
3 blk str 372 @ 216.00	9 blk hfrs 384 @ 197.00	23 blk/bwf str 617 @ 202.50	13 blk hfrs 598 @ 189.00
1 wf str 450 @ 207.00	8 blk hfrs 528 @ 193.00	10 blk str 568 @ 200.50	14 blk/bwf hfrs 600 @ 186.00
3 red str 437 @ 202.00	9 mix hfrs 531 @ 193.00	29 blk/bwf str 646 @ 199.75	11 blk hfrs 627 @ 185.00
4 blk str 465 @ 201.00	12 blk/bwf hfrs 483 @ 190.00	7 blk str 630 @ 197.00	14 blk/bwf hfrs 708 @ 182.50
11 blk/red str 549 @ 198.50	4 blk/red hfrs 353 @ 184.00	16 blk str 588 @ 195.00	8 blk/bwf hfrs 714 @ 182.50
2 blk str 545 @ 198.00	3 blk hfrs 433 @ 183.00	12 char str 604 @ 194.50	60 blk/bwf hfrs 780 @ 180.00
5 wf str 381 @ 197.00	8 wf hfrs 454 @ 179.00		4 blk hfrs 718 @ 176.00
1 red str 515 @ 196.00	2 blk/bwf hfrs 478 @ 175.00		7 blk hfrs 591 @ 172.00
2 blk bulls 455 @ 196.00			
2 wf str 495 @ 190.00			

BRED FEMALES & PAIRS	BULLS
1 blk cow/cf @ 1750.00	1 char bull 1675 @ 115.00
4 blk/red cows @ 1210.00	1 bwf bull 1550 @ 111.50
1 blk hfr @ 1075.00	1 char bull 1525 @ 105.00

CONSIGNMENTS FOR TUESDAY, SEPT. 6, 2022: Herd Dispersal

- 50 mostly blk xbred cows, 4-10 yrs old bred to blk and Beef Master bulls turned in May 1st
- 50 blk xbred bull & hfr calves, 350-500 lbs., off above cows. About 10 small calves will sell on cows as pairs
- 50 blk str & hfrs, 500-600 lbs., vaccinated
- 75 blk steers, 750-800 lbs., off grass
- 53 blk/red steers, 750-775 lbs.
- 190 blk steers, 850-900 lbs., off grass
- 220 blk steers, 800-900 lbs., off grass
- 120 blk red steers, off grass
- 140 blk Red Angus steers, 875-900 lbs., Northern origin, off grass

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

Toll Free Number.....1-800-531-1676
 Website: www.rezACLIVESTOCK.com
 AUCTIONEERS: DENNIS REZAC & REX ARB

Rezac Livestock Commission Company, Inc. St. Marys, Ks.