

Wheat code finally cracked; wheat genome sequence will bring stronger wheat varieties to farmers

Kansas State University scientists, in collaboration with the International Wheat Genome Sequencing Consortium, published recently in the international journal *Science* a detailed description of the complete genome of bread wheat, the world's most widely cultivated crop.

This work will pave the way for the production of wheat varieties better adapted to climate challenges, with higher yields, enhanced nutritional quality and improved sustainability. The article is titled "Shifting the limits in wheat research and breeding using a fully annotated reference genome."

The research article — authored by more than 200 scientists from 73 research institutions in 20 countries — presents the reference genome of the bread wheat variety Chinese Spring. The DNA sequence ordered along the 21 wheat chromosomes is the highest-quality genome sequence produced to date for wheat. It is the result of 13 years of collaborative international research and the support of the National Science Foundation, Kansas farmers and many others.

"It is a dream come true for Kansas wheat farmers,

who were the first to invest in the wheat genome sequencing project and were pivotal in rallying U.S. wheat farmers in support of the wheat genome sequencing project," said Bikram Gill, distinguished professor emeritus of plant pathology at Kansas State University who organized the first National Science Foundation and U.S. Department of Agriculture-sponsored workshop planning meeting on wheat genome sequencing in Washington, D.C., in 2003.

A key crop for food security, wheat is the staple food of more than a third of the global human population and accounts for almost 20 percent of the total calories and protein consumed by humans worldwide, more than any other single food source. It also serves as an important source of vitamins and minerals.

Kansas farmers grow an average of 340 million bushels of wheat each year, but acres planted to wheat have dropped dramatically over the past decade, from ten million acres to fewer than eight million. To meet future demands of a projected world population of 9.6 billion by 2050, wheat productivity needs

to increase by 1.6 percent each year.

With the reference genome sequence now completed, breeders have at their fingertips new tools to address global challenges. They will be able to more rapidly identify genes and regulatory elements underlying complex agronomic traits such as yield, grain quality, resistance to fungal diseases and tolerance to physical stress — and produce harder wheat varieties.

"Completion of the sequence is a landmark event that will serve as a critical foundation for future wheat improvement," said Allan Fritz, Kansas State University professor of agronomy and wheat breeder. "It is the key to allowing efficient, real-time integration of relevant genetics, making the selection process more efficient — it's a turbocharger for wheat breeding."

It is expected that the availability of a high-quality reference genome sequence will boost wheat improvement over the next decades, with benefits similar to those observed with maize and rice after their reference sequences were produced.

"Kansas wheat farmers have been supporting the wheat genome sequencing efforts through the Kansas Wheat Commission's wheat assessment since the establishment of the International Wheat Genome Sequencing Consortium in 2005, with a cumulative amount of nearly a quarter of a million dollars," said Justin Gilpin, chief executive officer for Kansas Wheat. "The sequence of the bread wheat genome has already had a positive effect on wheat improvement, which not only affects the science

behind wheat breeding, but has a long-lasting positive outcome in regard to wheat producer productivity, profitability and, ultimately, livelihoods."

Sequencing the bread wheat genome was long considered an impossible task because of its enormous size — five times larger than the human genome — and complexity — bread wheat has three sub-genomes and more than 85 percent of the genome is composed of repeated elements.

"It is exciting to be a part of this landmark achievement," said Jesse Poland, associate professor at Kansas State University and director of the Wheat Genetics Resource Center and the U.S. Agency for International Development Innovation Lab for Applied Wheat Genomics. "This international effort, toward something that was once deemed impossible, will have tremendous impact on wheat in Kansas, and the world."

In addition to the sequence of the 21 chromosomes, the *Science* article also presents the precise location of 107,891 genes and of more than four million molecular markers, as well as sequence information between the genes and markers containing the regulatory elements influencing the expression of genes.

The International Wheat Genome Sequencing Consortium achieved this result by combining the resources it generated over the last 13 years using classic physical mapping methods and the most recent DNA sequencing technologies; the sequence data were assembled and ordered along the 21 chromosomes using highly efficient algorithms,

and genes were identified with dedicated software programs.

All consortium reference sequence resources are publicly available at

its data repository at UR-GI-INRA Versailles and at other international scientific databases such as GrainGenes and Ensembl Plants.



Schwieterman

Market Outlook

A marketing commentary by
Bret Crotts

We saw a lot of action in the grains last week and for the most part the grains did a great job of recovering from the post report losses. Monday the corn market started off lower on spillover weakness from the report, but finished near the top of the range. By the end of the week the December corn was back above the 9 and 50-day moving averages and the market looks set to test the wall of resistance we have at the \$3.88 area.

The wheat market didn't bottom out as soon as the corn did, but the December KW did find support at the 50% retracement of the last leg up, and then, thanks in part to news out of Russia that they may restrict exports, the market shot up to close out the week.

Soybeans bottomed out on Monday like the corn did, and the beans explosive day came on Thursday when we had rumors of trade talks resuming with the Chinese. The November soybeans climbed back above the 50-day moving average for the first time since May, which is changing the complexion of the chart in favor of the bull camp.

The post report pressure that we saw was based on higher corn and soybean production estimates and the corresponding ending stocks increases. This week, traders came to the realization that perhaps USDA is a little too pessimistic about the demand side of the equation. For the corn, wheat, and soybeans, it seems that we have the potential to export more than what USDA has penciled in. With world corn stocks projected to be historically tight it is difficult to imagine a scenario where the largest corn exporter in the world (the USA) doesn't see an increase in exports. For the wheat, when the largest exporter in the world (Russia) has to slow their exports, it is hard to find a reason why some of that business won't be shifted to us, and for the soybeans, it is hard to expect the Chinese to change their con-

sumption habits for very long.

We are on the verge of some major bull markets thanks to demand. Record yields seem to be a foregone conclusion, but the world has the capacity to consume a huge portion of what we produce.

Cattle had a solid week. The October live cattle held support at a trend line and the 100-day moving average and the market moved sharply higher off of that support. The feeders were a bit quieter and there didn't seem to be a lot of bullish enthusiasm at the auction barns. The big winner of the week was the hog market, where a little bit of friendly trade talk sent the market shooting higher.

Most cattle contracts are closing in on either contract or multi-month highs. In many cases there have been multiple attempts to move through these levels, so the overhead resistance is strong. This week it will be time to lightly begin hedging again.

Schwieterman Marketing, L.L.C. specializes in risk management and cash grain and livestock marketing plans. For information on the markets or our marketing service you can contact Bret Crotts at 888-437-9131 or bret@subell.net.

The information contained herein is based on data obtained from recognized statistical services and other sources believed to be reliable. However, we have not verified such information and we do not make any representations as to the accuracy or completeness. Past results are not necessarily indicative of future results. All statements contained herein are current opinions, which are subject to change. The risk of loss in trading commodity future contracts is substantial. You should therefore carefully consider whether such trading is suitable for you in light of your financial condition. Neither the information, nor any opinion expressed shall be construed as an offer to buy or sell any futures or options on futures contracts.

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For our sale Friday, August 17th, all classes of strs & hfrs were selling fully steady to stronger prices according to quality & condition with very good demand. Cull cows and bulls were \$3.00-\$5.00 higher. Following is a partial listing:														
STEER CALVES — 250-525 lbs				HEIFER CALVES — 300-525 lbs				BULLS — 1,775-2,050 lbs				COW/CALF PAIRS		
												AGE		
Beattie	7 blk	388@216.00		Beattie	4 blk	335@175.00	Mayetta	1 bwf	1775@91.50	Beattie	6 Cross	2-3	@1400.00	
Holton	7 blk	382@211.00		Beattie	5 blk	409@174.00	St. George	1 blk	2030@89.50	Beattie	1 blk	3	4 @1350.00	
White City	4 blk	272@199.00		Manhattan	4 blk	323@168.00	Mayetta	1 Cross	2310@75.00	Onaga	1 blk	SS	@1225.00	
Onaga	6 blk	458@197.00		Onaga	6 blk	481@164.50	Wheaton	1 blk	2215@71.00	Onaga	1 Cross	BM	@1125.00	
Council Grove	9 blk	463@190.00		Marion	6 blk	495@160.25	Havensville	1 blk	1980@61.00	BRED COWS				
Manhattan	5 blk	488@187.00		White City	4 blk	521@157.00	COWS & HEIFERETTES — 825-1,825 lbs				AGE BRED			
Holton	9 blk	506@184.75		Auburn	5 blk	490@149.50	Beattie	1 blk	840@121.00	Onaga	1 blk	8	5 @1150.00	
Onaga	8 blk	516@183.00		Beattie	6 Cross	400@114.50	Westmoreland	2 blk	995@105.00	Onaga	4 blk	6	6-8 @1135.00	
Havensville	4 Cross	501@182.00		HEIFERS — 575-850 lbs				Manhattan	1 bwf	895@104.00	Onaga	5 blk	7-8	7-8 @1125.00
Beattie	7 blk	471@179.50		Havensville	4 blk	613@157.00	Riley	1 blk	955@99.00	Onaha	7 mix	SS	7-8	@10.60
Seneca	19 Hols	502@92.00		St. George	16 blk	622@156.75	Westmoreland	1 blk	1330@86.00	Beattie	6 Cross	2	4-6	@1060.00
STEERS — 550-850 lbs				Council Grove	4 blk	653@154.75	Wamego	1 blk	1010@84.00	Onaga	1 Cross	BM	6	@970.00
Alma	4 blk	558@173.00		Council Grove	11 blk	597@154.00	Prairie Village	1 Cross	1310@79.00	Onaga	4 blk	BM		@950.00
Council Grove	16 blk	664@168.00		Alma	7 blk	641@154.00	Meriden	1 blk	1335@74.50	Beattie	1 blk	3	5	@935.00
Alma	10 blk	637@168.00		Effingham	10 rd Ang	698@153.50	Onaga	1 blk	1535@71.00	Onga	2 blk	4-6	8	@930.00
Frankfort	14 blk	659@166.00		Council Grove	41 blk	731@153.25	Manhattan	1 blk	1410@69.50	Topeka	4 Heref	SS		@885.00
Auburn	9 blk	694@164.75		Florence	35 blk	699@153.25	Riley	1 blk	1275@66.00	Onaga	1 blk	BM	8	@850.00
Frankfort	17 bwf	734@164.00		Blue Rapids	14 blk	673@153.00	Mayetta	1 blk	1425@64.50	Mayetta	3 blk	3-6	3-4	@850.00
Blue Rapids	12 blk	720@162.50		Alma	25 blk	697@153.00	Olsburg	1 blk	1290@64.00	<div>EARLY CONSIGNMENTS FOR AUG. 24</div> <ul style="list-style-type: none">• 50 blk & blk baldy cows, 4-6 yrs w/ Balancer sired March & April calves. Calves have had 1 complete rd shots, cows exposed back to Balancer bull since May.• 79 mostly blk hfrs, Spring shots.• 50 Big mostly home raised Blk fall calving cows, 7 yrs-SS bred Angus for Sept-Oct calves.• 58 Blk strs, long weaned/ 2 rds shots, 700-750 lbs.				
Council Grove	9 Angus	633@162.50		Meriden	7 blk	575@152.50	St. George	1 blk	1290@63.50					
White City	9 blk	591@161.50		Auburn	8 blk	643@150.00								
Council Grove	56 blk	794@161.00		Axtell	13 blk	710@149.75								
Manhattan	4 blk	642@159.50		Green	6 Cross	712@149.50								
St. George	5 blk	680@155.50		Blue Rapids	5 blk	611@149.00								
Blue Rapids	24 blk	845@155.25		White City	7 blk	607@148.50								
Onaga	5 blk	657@154.50		St. George	10 blk	705@148.50								
				Dwight	152 Cross	787@145.00								

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Kansas Hay Market Report

Hay market trade activity is light to moderate. Prices mostly steady. Demand is fairly good. Third cutting alfalfa is in full swing for the western half of the state. However, at times it has proven to be challenging to do so between the raindrops. Western producers are also battling high humidity and "pigweeds," both of which are not much of a problem in normal years. As for the eastern half of the state, drought continues to prevail and essentially put an end to hay season. Forty-three Kansas counties, primarily in central and northeastern areas, were authorized for emergency haying and grazing of CRP land. Relief came with the

rain however, with rain this week. According to the U.S. Drought Monitor, drought conditions were essentially unchanged, save for some small, spotty areas of improvement in eastern Kansas. Western areas 90-day rainfall totaled four to locally ten inches more than normal. The abnormally dry (D0) category is at 11 pct, moderate drought (D1) is at 26.5 pct, severe drought (D2) is at 17 pct, and extreme drought (D3) is at 7.5 pct and exceptional drought (D4) is at 1 pct. Join agriculture leaders from across the state at the third annual Kansas Governor's Summit on Agricultural Growth on Thursday, Aug. 23, 2018,

at the Manhattan Conference Center at the Hilton Garden Inn. More information about the Summit, including a link to the registration site, can be found at <http://agriculture.ks.gov/AgGrowthStrategy/ag-summit-2018>. If you have questions about the Summit, contact KDA at 785-564-6700 or email Britney.Grother@ks.gov. If you have hay for sale, and/or need hay here in Kansas, use the services of the Internet Hay Exchange: www.hayexchange.com/ks.php.

Southwest Kansas

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: horse, premium small squares 280.00-300.00. Dairy, 1.00-1.05/point RFV, Supreme 185.00-210.00, Premium 170.00-195.00, Good 160.00-170.00. Stock or Dry Cow alfalfa, 190.00-200.00. Fair/Good grinding alfalfa,

170.00-180.00. Ground and delivered locally to feedlots and dairies, 200.00-215.00. Grass hay: pasture mix small squares 8.00-9.00/bale. Cornstalks: Large round 70.00-80.00, ground and delivered 95.00-105.00. Wheat hay: large squares, 110.00-120.00. Wheat Straw: large rounds, 65.00-75.00. Rye hay, large squares 100.00-110.00. The week of 8/5-8/11, 10,382T of grinding alfalfa and 1,050T of dairy alfalfa were delivered.

South Central Kansas

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered, alfalfa pellets steady; movement slow. Alfalfa: horse, small squares 190.00-200.00. Dairy, 1.00-1.05/point RFV, Supreme 185.00-210.00, Premium 170.00-195.00, Good 160.00-170.00. Stock cow alfalfa, 155.00-165.00 delivered. Fair/Good grinding alfalfa, 150.00-160.00 with an instance at 180.00. Ground and delivered locally to feedlots 175.00-185.00 with an instance at 195.00. Alfalfa pellets: Sun Cured 15 pct protein 200.00-220.00, 17 pct protein 210.00-225.00, Dehydrated 17 pct 245.00-255.00. Grass hay: Bluestem small squares 8.00/bale, mid squares 110.00-120.00, large squares 140.00-145.00, Brome large squares 75.00-85.00/bale. Oat hay, large squares 85.00-95.00. Sudan, large

rounds 70.00-80.00. Wheat hay, large squares 145.00-155.00 delivered, large rounds 125.00-135.00. Rye hay, large rounds, 95.00-105.00. Cornstalks: none reported. Straw: large rounds 65.00-75.00. The week of 8/5-8/11, 4,756T of grinding alfalfa and 1,897T of dairy alfalfa were delivered.

Southeast Kansas

Dairy alfalfa, ground/delivered steady, grass hay steady to 10.00 higher, grinding alfalfa steady to 25.00 higher; movement slow. Alfalfa: horse or goat, 220.00-245.00. Dairy cow alfalfa 170.00-180.00. Fair/Good grinding alfalfa, 170.00-180.00. Ground and delivered, none reported. Grass hay: bluestem, premium small squares 125.00-145.00. Good, mid to large squares 120.00-140.00, large rounds 100.00-110.00 with an instance at 120.00; Brome: Good, mid squares 140.00-150.00, large squares 125.00-135.00, large rounds 120.00-130.00. Oat hay, mid squares 150.00-160.00. Straw, mid and large squares 70.00-80.00. Mulch, large rounds 50.00-60.00. The week of 7/5-8/11, 1,108T of grass hay were delivered.

Northwest Kansas

Dairy alfalfa steady, grinding alfalfa and ground/delivered steady to 10.00 higher; movement

slow. Alfalfa: Horse or goat, 220.00-230.00. Dairy, Premium/Supreme 1.00-1.05/point RFV. Stock cow, fair/good none reported. Fair/good grinding alfalfa, 135.00-145.00. Ground and delivered locally to feedlots and dairies, 150.00-165.00. Alfalfa/oat mix, large rounds 100.00-120.00.

North Central-Northeast Kansas

Dairy alfalfa, grass hay, ground/delivered steady, grinding alfalfa steady to 10.00 higher, wheat straw steady to 5.00 higher; movement slow. Alfalfa: horse, premium small squares 9.00-10.00/bale. Dairy 1.00-1.05/point RFV, Supreme 185.00-200.00, Premium 170.00-195.00, Good 160.00-170.00. Stock Cow, good 120.00-125.00. Fair/Good, grinding alfalfa, 160.00-170.00. Ground and delivered 175.00-185.00. Grass hay: bluestem, small squares 7.50/bale, large squares 105.00-115.00, large rounds 95.00-105.00; Brome: small squares 8.50/bale, mid to large squares 140.00-150.00 delivered, large rounds 115.00-125.00, or 150.00 delivered. Straw: small squares 6.00-7.00/bale, large squares 100.00-110.00, and large rounds 85.00-95.00.

***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.

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*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

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AUCTIONEER'S NOTE: Butch has been an antique and classic car enthusiast for many years. Simply put, the time has come to downsize. Make plans to join us for this great auction.

ANTIQUE CAR COLLECTION (Bank letter required for any purchases over \$10,000): 1934 Ford pickup, flat head V-8, original, custom paint, bed floor redone, (rear fenders are fiberglass); 1929 Ford Roadster, convertible, metal body, 348/409 Chevy, 4-speed hi gear tranny; 1923 Ford T Bucket, Chevy V8 307, AT, fiber glass body, custom headers; 1963 Studebaker Lark, 6-cyl, 3-speed on the tree, overdrive, 52,000 miles, new tires, runs and drives good, no rust; 1933 Chevrolet 2-door sedan, Master Eagle, 71,000 miles, 6-cyl., 3-speed, all original, elec. fuel pump; 1967 Pontiac Firebird Custom convertible, 383 Stroker, 350-custom AT, shift kit, positive track; 1967 Mercury Cougar, 289, 4-speed, runs but needs work; 1968 Ford Mustang Coupe; 6-cyl, 3-spd. on floor, no rust, dent in right rear corner (numerous parts to go w/ it); 1934 Chevrolet Master Deluxe, 2-door sedan, 327, metal body, fiberglass fenders, 350 Turbo, tilt wheel, elec. seat; 1937- Dodge Brothers 4-door sedan; 6-cyl., 3-spd. on floor, new wheel bearings & king pins, original interior, some extra parts included, motor overhauled; cab for a 1992 GMC (rust free, no title). Lots of pictures on the web;

INTERNATIONAL PRO STAR PLUS SEMI & TRAILER: Max Force 13, 10-speed, all up grades complete, twin screw, Goodyear LP 22.5 on aluminum wheels, stand up sleeper, 444,965 miles, cold AC, vin 4141295, with Fruehauf 1,000 cu ft cement/fly ash trailer, new blower and discharge hoses, aluminum wheels & good LP 22.5 tires;

GRAIN TRUCK & PICK UP: 1973 F700 truck, 16'-twin cylinder hoist, grain bed, V-8, 5/2spd., runs, with tarp, good tubeless wheels & tires; 1983 Ford F250 XL, V-8, AT, 4- spd., 10-ply tires, (used with the Hiniker snow plow);

TRACTORS: Case 730 Comfort king, Case-O-Matic, w/ 3-point, PS, VN 8234585, good rubber; 1952 Massey Ferguson TD-35 tractor, SN 152397;

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TRAILERS, SNOW PLOW & BLADES: Hiniker elec. snow plow, w/mounts & controls; 5' X 8' trailer, wood floor, drop down tail gate/ramp; 7' Diamond H rear blade, 3-point; 7-1/2' HD 3-point blade; 7'x18'- home made tandem trailer (needs repairs);

MISCELLANEOUS: 66' aluminum ramps; cast iron bath tub; used lumber; several pallets of wheels of all kinds; motors-Olds, & Chevy; Chevy, & GMC, transmissions; numerous new & used log chains; pallet of tire chains for 22.5 tires; 32-Ford grill; 23- large energy efficient shop lights; S-bolt aluminum Chev. wheels; center caps; beauty rings; old bicycles; barrels of used waste oil for a oil burner; large assortment of car & truck tires; flat, I Beam & angle iron; 2" deck boards; and much more to be discovered by auction time.

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Saturday, Sept 29 10 am

Accepting consignments now for our next sale.

Boats, campers, guns, trailers, farm equipment, vehicles, motorcycles, mowers, tools & more featured in this sale.

Contact auction staff, consign early and benefit from \$\$\$\$ advertising in newspapers and web sites before the sale.

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FARM FOR SALE:

000 Maple Hill RD. • Shawnee Co., KS

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177.5 Acres +/-

Kaw River Valley Bottom Ground

Sale Price: \$1,037,460

- 124.5 Ac. +/- Irrigated tillable crop ground features Reinke Pivot irrigation system w/ end gun & newer JD Engine + 2 wells**
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There will be a Pasture and Old World Bluestem Management Tour held in Marshall County. The tour is scheduled for September 4 at 5:30 p.m.

Pasture management is critical to increase forage yield and quality while also providing a

healthier place for livestock. This pasture tour will cover controlling weeds, maintaining grass, stocking rates, and solar water pumps.

This tour will also cover how to identify old world bluestem and how to control it. The name

might be deceiving but it is not a bluestem that a producer wants in their native grassland. Old World Bluestem is an invasive grass that will out-compete native plants. Cattle will graze on this grass early in the season but it becomes unpalat-

able when mature, therefore reducing stocking rates if it is allowed to spread.

This is a free event and supper will be provided. RSVP by August 31. If interested in attending, please call the Extension Office 785-562-

3531 or Conservation District.785-562-5343.

Directions: Going north from Manhattan (or south from Waterville) on US-77 turn east on Cyclone Lane for 6.5 miles.

Rain date is scheduled for September 5.

This meeting is in

cooperation with Marshall County's Extension Office, Conservation District, NRCS, & FSA. Sponsored by: MultiMin, Farmers Cooperative, BASF, and Kansas Forage and Grassland Council.

Smithfield Foods honors employees and facilities with environmental and sustainability awards; Junction City facility among honorees

Smithfield Foods, Inc. has honored multiple facilities and employees with Environmental and Sustainability Awards, recognizing efforts that helped Smithfield save more than 1.1 billion gallons of water, more than 8.8 million kilowatts of electricity, and more than 21.1 million pounds of solid waste generation in 2017.

Smithfield president and chief executive officer Kenneth M. Sullivan, honored the award recipients at a ceremony during the company's annual Environmental and Sustainability Conference. This conference is designed to engage employees on the company's sustainability program through case studies, presentations, and breakout sessions.

"Sustainability is firmly ingrained in our company's culture and is integrated into every aspect of our domestic and international operations," said Sullivan. "Our employees work tirelessly to do things the right way – the sustainable way – and these award-winning teams exemplify those efforts."

The facilities honored are instrumental to Smithfield's industry-leading sustainability program. Their efforts to improve resource efficiency support Smithfield's larger sustainability goal to reduce greenhouse gas (GHG) emissions by 25 percent by 2025 throughout its entire supply chain.

"These teams demon-

strate the direct impact that employees throughout the company have on our sustainability goals," said Stewart Leeth, vice president of regulatory affairs and chief sustainability officer for Smithfield Foods. "Each of the more than 54,000 members of the Smithfield Family help contribute to our industry-leading position in sustainability. Their hard work not only strengthens our company and sustainability program, but positively impacts the communities we call home."

Environmental and Sustainability Award winners received \$5,000 and the facility honored with the President's Award received \$10,000. Each winning team donated a portion of the prize to the charity of their choice.

PRESIDENT'S AWARD WINNER

Springdale, Ohio Implemented a new ingredient purchasing process, which resulted in annual waste reduction of 32 tons and annual savings of more than \$520,000.

ENVIRONMENTAL AND SUSTAINABILITY AWARDS

Denison, Iowa Improved water utilization by capturing water for reuse in three separate operations, resulting in an annual savings of \$36,000.

Starachowice, Poland Reduced water consumption by 20 percent and discharge by 10 percent by utilizing ultrasonic equipment to identify underground water leaks.

Animex Opole, Poland Improved energy efficiency by 20 percent,

decreased hot water production by 185,000 gallons, and decreased natural gas consumption by 6,300 cubic meters per month by expanding and modernizing its steam condensate return system.

Kinston, North Carolina Improved fuel efficiency by 49 percent and reduced GHG emissions by recognizing and resolving inefficiencies in refrigeration units on trailers. This facility was also recognized for developing an award-winning system to capture product, previously sent to rendering, which reduces waste.

Orange City, Iowa Reduced annual waste 250 tons by identifying a local biofuel producer to utilize the material as an alternate landfill disposal.

Culbertson joins Osborne sales staff

Osborne Industries, Inc., is pleased to announce that Cory Culbertson has been named North America sales representative for livestock equipment. Along with Osborne's customer-centric focus, Culbertson will assist in the distribution of Osborne's swine management equipment in the Midwest United States. "As a former swine producer myself, I know the challenges facing the modern producer," stated Culbertson. "In my new role, I hope to help producers discover the tools Osborne has available that help save money and improve efficiency at every stage of production."

Culbertson brings extensive experience and knowledge of the swine industry and swine equipment to Osborne. He has over 14 years of experience in pork production as an independent farrow-to-finish producer and was a past director of the Kossuth County Pork Producers Association. Additionally, Culbertson worked as a territory manager for both Smithfield

Foods and Hanor Company, with about 14 years of production management experience for their contract finishers.

"We are very pleased to have Cory join the employee-owned team at Osborne. He brings knowledge and experience in the industry that will help us to continue developing solutions which meet the challenges faced by producers," said Amy Conrad, Osborne's Sales and Marketing Manager. "Being a native of North Central Iowa, Cory is in the heart of premiere hog production country in

the U.S., and has a unique ability to communicate with actual producers to help them solve their most complicated production challenges."

Osborne Industries, Inc., is a diversified developer and manufacturer of livestock management equipment known for saving producers time and money. Osborne products like Stanfield Heat Pads, Big Wheel Feeders, ACCU-ARM Scales, AGRI-AIDE Ventilation Equipment, and advanced automated feeding and weighing equipment like

TEAM Electronic Sow Feeding (ESF) Systems, FIRE Pig Performance Testing Feeders, and the Weight Watcher Growth Management System are marketed and distributed worldwide. For more information about Osborne and their line of production equipment, visit osbornelivestockequipment.com or e-mail info@osborne-ind.com.



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Located about half way between Strong City & Emporia on Hwy. 50. Turn off Hwy. 50 & cross the railroad tracks. Doors open at 11:00. Lunch available.
GUNS start selling at 1:00 inc. SHOTGUNS, RIFLES, HANDGUNS, BB & PELLET. AMMO (factory), RELOADING, FISHING, TRAPS, LAWN & GARDEN, SHOP, COLLECTIBLES, HOUSEHOLD & MORE!
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AUCTION
SUNDAY, SEPTEMBER 2, 2018 — 12:00 NOON
408-118 ROAD — ST. MARYS, KANSAS
(North of St. Marys to Delia Road, 3 miles East to "B" Road then North 1 mile to 118 Road, West ½ mile.)
IH Farmall 656 tractor, wide front, 3pt, very clean tractor; Ford 8N tractor, clean & good.
3pt rotary mower; King Kutter 3pt blade (near new); 3pt boom for Ford tractor; 3pt crate; harrow section; 2-10X20 portable sheds; creep feeders; near new 2-ton Pride of the Farm bin; 4 automatic hog water tanks; steel & hedge posts; post driver & puller; cattle & hog panels; 2 slide-in pickup stock racks; 10 hog farrowing crates; approximately 85 small square bales of straw; gates; hog oiler; pig nurse; 2 "V" feeders; 5 hog feeders (25 bu. to 2 ton); 2 grain bunks; various water tanks (cattle & hog); 2 pickup bed water tanks; chrome pickup toolbox; barb wire; large bolt cutters; cable; dethatcher; iron sawhorses; tank heaters; 3 fence chargers; bars; assortment of hand & shop tool & supplies.
13" automatic feed industrial thickness planer; cedar lumber (aged rough sawn); Central Machinery wood lathe & stand (used twice); Craftsman 10HP portable generator (like new); scroll saw (new in box); Coleman Powermate air compressor; Craftsman 2/3HP 5speed 13" drill press on stand; chop saw; Blacksmith anvil; post drill; Maytag motor; Husqvarna riding mower (rear end out); Craftsman 6.25 push mower; new push sprayer; Stihl weed eater; shop vacs; floor jack; Clarke belt sander; angle grinder; battery charger; new sawzall; drill; stapler; new brad nailer; new 20 ton bottle jack; B&D bench grinder; vise; log chains; bar & other clamps; electric cords; gas cans; box wood stove; antique pulleys; hand saws; insulators; tire chains; Keen Kutter food grinder; bicycle; old metal scoop; wheelbarrow; heavy garden hose; sawhorses; 2 roller stands; step ladder; Beer advertising signs & buckets; pet carrier; clothesline poles; iron implement wheels; walking plow & lister; barn hay fork; variety miscellaneous.

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Wilsey, 1 blk	1375@62.50	Carlton, 15 blk	683@168.25	Peabody, 3 blk	513@145.00
Herington, 1 rwf	1485@58.50	Alta Vista, 4 blk	581@165.00	Peabody, 1 bwf	565@145.00
Cncl Grove, 1 bwf	1310@57.50	Alta Vista, 8 blk	689@165.00	Lost Springs, 5 blk	676@140.50
Alta Vista, 1 blk	1260@55.00	Lincolnville, 4 rwf	606@155.00	Hope, 61 blk	825@140.25
Tampa, 1 blk	1115@52.50	Ramona, 129 mix	806@154.10	Alta Vista, 9 blk	741@138.00
Hope, 14 Hols	1190@50.48	Carlton, 11 blk	835@151.75	Lost Springs, 4 blk	755@135.00
Cncl Grove, 1 red	1035@45.50	Burdick, 60 mix	850@149.00	Lincolnville, 5 rwf	575@135.00
		Herington, 55 mix	818@145.00	Alta Vista, 12 blk	823@133.00
		Hope, 62 mix	900@144.75	Lost Springs, 9 mix	813@132.00
		Emporia, 5 blk	823@144.00	Tampa, 3 blk	850@130.00
		Lincolnville, 58 mix	893@143.50		
		Alta Vista, 2 blk	875@140.00		

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• 60 mostly blk strs 875 lbs
• 62 mixed strs 825-850 lbs
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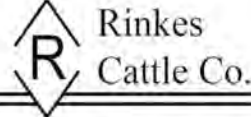
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for \$371,000.

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NEW LISTING! 35 Ac +/- hay meadow w/creek and timber on 18 Hwy W of Bennington. Nice bldg site! Call Ray!
NEW LISTING! 320 Ac +/- Tillable, CRP paying \$98/acre, Hay Meadow combo just SE of Junction City. Nice farm, great hunting. Call Brad!
NEW LISTING! 32 Ac +/- Tillable just E of Brookville on Old 40 HWY. Productive farm would make nice homesite! Call Ray!
NEW LISTING! 128 Ac +/- Tillable/CRP along Old 40 HWY just E of Brookville. Another nice homesite with productive tillable and regular CRP pmt. Call Ray!
NEW LISTING! 80 Ac +/- CRP just S of Bavaria. Fixed return on investment. Call Ray!
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NEW LISTING! 320 Ac +/- Pasture 8 mi E of Bennington on 18 Hwy. Immediate Possession! Call Ray!
NEW LISTING! 110 Ac +/- Tillable & Timber w/pond & creek. Great hunting!
NEW LISTING! 80 Ac +/- Productive tillable N of Canton. Call Ray!
*114 AC +/- Pasture just off Old 81 Hwy/9th St @ OT/SA County line. Great Bldg site! Call Ray!
*320 Ac +/- Mostly CRP with 3 ponds and cabin east of Bennington. Possible tillable, pasture, or get away with modest return. Call Ray!
*320 Ac +/- Pasture E of Bennington - Owner will Finance - Call Ray!
*300 Ac +/- on the Solomon River - Owner will Finance - Call Ray!
*130 Ac +/- Pasture/tillable and great hunting on Willy's Creek NE of Abilene on Hwy 15. Call Ray!
*440 Ac +/- in 2 tracts SW of Tescott. Tillable priced in today's market. Call Ray!
*100 Ac +/- Rain Rd./ 18 Hwy. CRP building site! Call Brad!
*80 Ac +/- just S of Lincoln. tillable and CRP Call Ray!
*240 Ac +/- Geary Co. blacktop frontage 190 pasture w/new fences, 3 big springs and 2 new wells. 45 tillable. Close to town. Seller is a Kansas licensed real estate agent. Call Ray!
*239 Ac +/- Sportsman Paradise timber and Solomon River SE of Bennington. Proven deer, turkey, and 40 lb flatheads. Call Ray!

COUNTRY HOMES AND LOTS
NEW LISTING! 422 Mockingbird Ln, Minneapolis, KS. 4 bed, 3 bath, finished bsmt, Lrg backyard with awesome porch, access to golf course. Priced to sell! Call Rachelle or Ray!
NEW LISTING! 702 N. Meier St., Brookville, KS 3 bed, 1 bath, full bsmt, 2 car garage, move-in ready. Call Ray.
NEW LISTING! 5487 N Hedville Rd., home on 3 Ac +/- w/pond, 4 bed, 2 bath, built 2000. Call Ray!
NEW LISTING! 4300 W State St Rd., 4 bed, 2 bath, full bsmt, 2-car garage on 3 acres. Call Ray!
*20 Ac +/- with nice shop and pens just N of Enterprise along I-70. Call Brad!
*332 2800 Ave., Abilene/ Solomon - 4 bed, 3.5 bath log home, stone fireplace w/awesome view & new shop on 16 Ac +/- or add in another 64 Ac +/-! Call Brad!

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Ty Bryant 785.366.0261 Billy Randle 785.479.1152
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Ottawa Co.- 10 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476
Ottawa Co.- 20 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476
Ottawa Co.- 20 Acres m/l building site with Old Highway 81 frontage North of Bennington. Chris 493-2476
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54" mower
2005 Case IH DX45, 4WD,
ldr

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COMBINES
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VR1224
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5500 Rebal Baler
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Winkel
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105 hrs.
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loader, 140 hrs.
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2008 JCB 536-60 Agra
tehandler 2,800 hrs
2013 JD 323D track skid
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HAY EQUIPMENT

New H&S AR 12 wheel
carted rake
1997 Hesston 565A round
baler

COMBINES

1986 Case IH 1063 corn-
head with corn reel
2004 Case IH 2366

AUGER & GRAIN CARTS

New Parker 839 grain cart
Parker 510 grain cart, cor-
ner auger
UFT 500 grain cart, 1000
PTO side auger

MISCELLANEOUS

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grain grill w/ Coulter cart
JD 637 29' disc
1994 GP 1500 drill w/
Coulter cart

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USED TRACTORS

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MFD 485 hrs
'13 Case IH Magnum 315,
1455 hrs
2011 Case IH Farmall 65A
MFD, ldr. 2413 hrs.
'01 Case IH MX220 MFD,
6,060 hrs
IH 154 Cub Low Boy w/ ldr,
billy mower & 3 pt.

MISCELLANEOUS


'14 Case IH 5130 Combine,
4wd 760 engine hrs, 510
sep. hrs
'11 Case IH 3406 cornhead
w/ trailer
'14 Case IH WD1203 SP
windrower, 14' hd, 380 hrs
'10 Case IH RB564 twine/ net
'09 Case IH RB564 3600
bales
Vermeer 604M
2- 2012 Case IH 1250 plant-
er, 16x30
'06 Case IH 1200 PT 12/30
planter
'02 Case IH 4300, FC 27'
GP Turbo-Till 3000
'07 Case IH 340 25' disk
'08 Case IH 370 disk, 34'
Case IH 730B Ecolo-Tiger
IH 9' chisel, 3pt
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'94 JD 915 flex
'89 Case IH 1020 25'
IH 863 cornhead
'03 NH 499 MoCo
NH 1465 MoCo, 9'
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w/ldr
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susp., 400 hrs\$61,000
2016 Bobcat T740 A91 SJC
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TS,\$40,000

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510, 410; IH 1680, 1480,
1460, 915, 815, 715, 503,
403; NH TR70-85, 1400, 995,
985, 975.

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190XT; D17-19; JD 84-8630,
7520, 6030, 5020, 4630,
4430, 4020, 3020, 720, 730;
CASE 1470, 1370, 1270,
1200, 1070, 930, 400; IH
1568, 1466, 1256, 1066,
1026, 806; FORD 4-5-6-8-
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300 Massey. Several black &
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2013 Case IH 7230 915 hrs....
.....\$205,000 (C)
2011 Case IH 7120 4wd 1433
hrs\$158,500 (S)
2011 Case IH 5088 752 hrs....
.....\$152,500 (M)
2007 Case IH 2577 1189 hrs.
.....\$108,500 (M)
2000 Case IH 2388 3845 hrs.
.....\$37,500 (C)
2001 Case IH 2388 3753 hrs.
.....\$49,500 (H)
1994 Case IH 1666 4509 hrs.
.....\$27,500 (M)

HEADERS:

2011 Case IH 2162 35'
draper.....\$39,500 (W)
2007 Case IH 1020 30' flex ...
.....\$11,500 (C)
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.....\$16,500 (C)
2013 Case IH 3020 30' flex ...
.....\$23,500 (M)
2011 JD 630F 30' flex
.....\$18,500 (W)

SHUCK

IMPLEMENT

IN STOCK- NEW MASSEY
FERGUSON HESSTON
2900 SERIES

NH 616 Rotary disc mower,
very clean, kept services, 7"-8"
swath\$5,900
Case IH 445 wire tie square
baler. Good cond., kept shed-
ded, 65" wide PU wagon hitch
& Qtr. Turn Chute. Stk#6661.
.....\$3,900
Westendorf TA 26 ldr w/bale
spear, no bucket. Stk#4896...
.....\$3,900
2015 MF 3710 spreader 175
bushel, lightly used. Stk#3480
consigned\$7,900
2015 MF 4608 platform 2WD
tractor, 755 hrs, 2 remotes,
power shuttle, very good
cond., 67 PTO HP. Stk#6861
.....\$25,400
1998 MF 4235 2WD tractor,
eng. hrs 1,780, new AC.
Stk#4237.....\$19,900
Case IH 8460 round baler Hes-
ston 560, new belts 3 yrs
ago, good tires, kept inside.
Stk#4777..... **\$4,400**
Farm King RS16FK 16 wheel
Hy Capacity rake. Stk#2836..
.....\$11,000
2017 MF 5711 Deluxe Cab,
4wd ldr tractor. Eng. hrs 25,
MF 941 factory ldr & joystick,
84" Euro Quick Attach bucket.
PTO 540/540E/1000, air seat,
pilot heater, pivoting front
fenders, 3 remote valves, 6
rear wheel weights total 661
lbs. AM/ FM/ Weatherband
stereo, warranty ends 9/29/19.
Stk#6048 consigned..\$74,900
1990 MF 8570, 5,445 eng. hrs
w/ AG leader PF3000 yield
monitor, very clean, well main-
tained, stk#2361\$24,900
MF 9750 20' flex header Incl.
w/8570Stk#2987
MF 9483 8 row corn head Incl.
w/8570Stk#2988
2016 MF WR9870/9195 SP
Windrower, wide deluxe
suspended cab, rear steer,
auto guide rotary disc razor
bar header, 16' w/elec.
swath board actuator. 305
eng. hrs, 223 header hrs.
stk#3037/3038 **Promotional
Financing**.....\$149,000
ASV RT30 Compact Track
Loader, enclosed cab & heat,
48" bucket. Stk#5918.....
.....New In Stock

Tire Town Inc.

20 8x38 New\$825
340/85 R28 New\$485
520 70R30 Buffed\$700
480 70R28 Buffed\$500
420 85R34 Used 70%\$300
520/85R42 80%\$800
7 184x38 10P New\$525
600/65 R28 New\$1,000
9 360/70R28 Buffed\$325
710/75 R42 Buffed\$1,600
23 R30 overstock\$1,100
184x34 New\$480
800/70 R38 Buffed\$2,600
380/90 R46 80.00\$750

800-444-7209 800-451-9864
913-441-4500 913-682-3201

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front unload, steel sides and
top, nice ! \$1250 each. 913-
360-2907

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Loaders • *and more*

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1130 HESSTON SWATHER, 9'
cut. 785-589-2593.

1941 JD Model A. Runs good,
paint and rubber very good.
\$2600. 785-630-1650

BRUNA IMPL. CO.

2003 Case IH 2206 6RN.....
.....\$18,500 (M)
2004 Case IH 2408 8RN.....
.....\$17,000 (H)
2011 Case IH 3408 8RN.....
.....\$32,500 (M)
2012 Case IH 3412 12RN.....
.....\$48,500 (W)
2015 Case IH 4412 12RN.....
.....\$65,000 (W)
2014 Case IH 4416 16RN.....
.....\$85,000 (M)
2011 Geringhoff NS830 8RN..
.....\$27,500 (S)

NEW GRAIN CARTS:
Aged Inventory Reduction...
ONE unit ONLY: 2014 Brent
1282 red\$60,000 (H)
2018 Brent V1100\$61,500 (H)
2018 Brent 882 ...\$41,000 (H)

Bruna Impl. Co.
(C) - Clay Center: 785-632-5621
(H) - Hiawatha: 785-742-2261
(M) - Marysville: 785-562-5304
(S) - Seneca: 785-336-2111
(W) - Washington: 785-325-2232

**List of our entire
used inventory on:**
www.brunaimplementco.com



Pick-up Bed from 2018 Dodge

Ram 2500, single axle, black,
nearly new. Stk#Consigned.
.....\$2,200
IH 800 Cyclo 6-row air plant-
er. Used last in 2014, with
monitor, new tires & down
pressure springs, corn, bean
& milo drums, liquid fert. w/
Jon Blue pump. Stk#6448
Consigned.....\$2,900
MF TD1620 hay Tedder.
Stk#4127.....New In Stock
MF TD 1635 hay Tedder.
Stk#4082.....New In Stock
New Holland 678 Round Baler,
Think 2000 yr model, setting
in barn unused for a few
years. 200 bales on belts
that were new 6 yrs ago.
Rebuilt pick-up & twine arms.
Stk#6447 Consigned \$7,900
2012 MF 2856A round baler,
3,947 bales, twine & mesh,
fully auto cycle w/ On Board
hydraulics, hyd. pickup, fire
extinguisher, C1000 moni-
tor, serviced and ready to
go. Stk#1551 **Promotional
Financing**.....\$29,900
2010 MF 1839 small square
baler, hyd bale tension, Hyd
PU, 50k bales, fully recond.,
Harvest Tech Hay Boss pre-
servative system. Stk#5159.
0% Promotional Financing
.....\$19,900
Diamond side mount mower,
64" wide, Ser#2142CALL
Kubota M6-111 24x24 Intel-
lishift, power shuttle, grill
guard (75 hrs), AM/ FM/
CD stereo, rear worklight,
HD metal fuel tank guard,
deluxe self cancelling detent
valve, 3 remotes. Stk#6042.
0% Promotional Financing
.....\$59,900
Utility service bed\$1,900 OBO
2015 MF 3710 spreader
175 bushel, lightly used.
Stk#3480 consigned. \$7,900

Lawrence, KS

785-843-8093
800-654-5191
Fax: 785-843-1014





NEW

Balers: 605N, 504R, 604N
Rakes: VR1428, 2- VR1224

USED

Balers: 4- 605SM, 2- 605N,
1- 605SM corn stalk, 1-
504N, 1- 504R Demo, 1-
6650 Rancher Rakes: 2-
R2800, 2- R2300, 1- VR1428,
1- VR1224

LARGER BALE FORKS
SPRING STEEL AVAIL.
METAL

ROUND SQUARE TUBING
ANGLE CHANNEL & FLAT
2 3/8", 2 7/8", 4 1/2" pipe
3/4 & 7/8 sucker rods

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Oxygen C125 & acet. Bottles
for sale
Welding rods & wire
Top & bottom belts for all bal-
ers
Twine 4' & 5' netwrap
Portable panels, Feed Bunks
& Round Bale Feeders

Forrest Johnson
LEONARDVILLE, KS 66449
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785-293-2235

HOT WATER PRESSURE
washers, new or reconditioned.
Wholesale Washer Company.
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— ROTARY CUTTERS —

'01 JD 1518\$4,950
'08 Woods 6'\$1,950
'14 Kodiak 6'\$4,500
'11 Rhino FR180.....\$11,500
'00 BushHog 2615\$6,950

— COMBINES —

'16 JD S680\$299,500
'13 JD S680 4wd\$209,500
'17 JD S680 4wd\$319,500
'16 JD 670\$219,500
'12 JD 5670\$144,500
'14 JD S670\$239,500
'14 JD 670\$189,500
'17 JD S670 4WD\$319,500
'13 JD S660\$159,500
'10 JD 9870\$119,500
'05 JD 9660 Hilco.....\$99,900

Corn heads

— SPRAYERS & APPL.—

'15 JD4030\$150,500
'13 JD 4730\$174,500
'01 JD 4710\$65,325
'13 AgChem RG110 ..\$99,500
'15 AGCO RG110\$199,500
'07 AGChem 874\$52,925
'05 Spray Coupe 4450\$34,500
'07 Bestway 1000 gal ..\$8,250

— TRACTORS —

'16 JD 9620 RX\$424,500
'13 JD 9510RT.....\$229,500
'12 JD 9460R.....\$199,900


— ITEMS FOR SALE —

JD 4520 tractor came out of JD
factory w/out 3pt\$6,000
JD 6125M MFWD tractor PQ3
remotes, 3797 hrs\$55,000
2012 CIH 290 tractorCALL
JD 220 rigid head.....\$900
JD 920 rigid head.....\$4,000
1990 JD 853A rowhead.....
.....\$14,000
2014 JD 612C cornhead.....
.....COMING IN
JD 644 cornhead 6R36.\$4,750
JD 693 cornhead\$7,000
2007 JD 893 cornhead, NICE .
.....\$16,500
JD 1293 cornhead 12RN CALL
2008 CIH 3412 cornhead
.....COMING IN
CIH 3408 cornhead.COMING IN
2009 CIH 2152 rigid draper,
40'\$20,000
2014 MacDon FD75-5 flex
draper.....CALL
2007 JD 635F flexhead
.....COMING IN
JD 915 flexhead.....\$3,500
JD 930 flexhead 30'\$7,500
2001 CIH 1020 flexhead 25'....
.....\$7,500
JD 914 pickup head COMING IN
JD 212 pickup head 5 belt.....
.....COMING IN
JD 212 pickup head 6 belt.....
.....COMING IN
CIH 1015 pickup head.....
.....COMING IN
Parker 250 gravity wagon w/
auger.....\$2,250
Brent 674 grain cart\$10,000
2003 NDE 1402 Vert Mixer
Wagon\$9,750
Farmland XG30 tubgrinder.....
.....\$5,250
2- JD 716A wagons\$6,000
JD 714A Chuck wagon.\$6,000
EZ-Flow wagon.....\$1,500
NH 355 grinder mixer....\$4,000
NH 275 sq. baler.....\$1,750
JD 530 baler.....\$2,200
JD 569 premium round baler...
.....\$23,500
Vermeer 605 rd. baler.\$13,000
2014 NH 340 big square baler
1601 bales\$75,000



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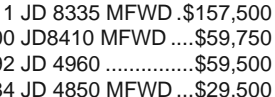
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like new**\$2,300**
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num,**\$3,000**
3pt bale unroller like new
.....**\$950**



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heads. IH adapter available.
785-456-5093.



'16 JD 8370 RT.....\$247,500
'16 JD 8370 R.....\$269,500
'14 JD 8345 R.....\$229,500
'12 JD 8335 RT.....\$179,500
'11 JD 8335 MFWD ..\$157,500
'00 JD8410 MFWD\$59,750

— HAY —

'08 JD 275\$7,950
'13 JD 569 Baler\$30,000
'10 JD 568 Baler\$26,500
'01 Vermeer 605\$11,500
'10 NH H7150 MoCo .\$.18,500

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www.hiawathaimplement.com



GP 3000 Turbo-Till\$20,000

Sunflower Fallowmaster 42'
.....CALL
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Flex-King.....\$10,000
Hiniker 1000 cultivator 12r 30' .
.....\$9,000
Lilliston cultivator 6R30 .\$.2,500
JD 885 cultivator 8rw\$5,000
Orthman 8325 cultivator
.....\$16,000
BludJet ripper 7sk, pull-type 31'
.....CALL
Blu Jet ripper 7sh.....\$5,500
JD 2100 ripperCALL
Sunflower 1433 discCALL
JD 455 drillCALL
2003 SF 9421 NT drill.....\$18,000
JD 7200 planter 8r\$6,000
JD 7300 planter 8x30.....\$4,000
JD 1700 planter 8r30\$9,500
Buffalo 4600 cultivator ..\$1,500
KMC Cultivator.....\$1,000
CIH disc chisel\$5,000
Balzer 1500 Flail Windrower....
.....\$10,000
Rhino SR20 Batwing Shredder
20'\$5,500
JD 27 flail shredder\$2,000
Soilmover 4.5 yd\$4,500
Wemco header trailer 32 & 35
ft. NEWCALL

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Guaranteed Used Truck Tires, most sizes. Also, can use LP22.5, 11R22.5, 11R24.5 Clean Low Grade Casings. GeeTire.com Rossville, KS. 785-231-8397

MF 285 85 HP TRACTOR, engine overhauled, with loader. 785-479-1000

- **2005 NH CR960 combine**, 4WD, duals, 3,677 engine/2,256 separator hours. Self leveling shoe, yield monitor. \$62,500
 - **2013 NH 740 CF Super Flex** header 30' w/ Crary Air Reel. Purchased new, \$26,000.
 - **2008 NH 98C 8-30 cornhead** poly, hydraulic deck plates, auto header height, knife rolls. \$27,500.
- Owner selling all equipment in excellent condition & shedded.*
Emporia, 620-794-4293

DR TOWABLE BACKHOE, @30 hours. Cost \$6600 new in 2009. 785-799-5705.

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IH 800-900-950-955 Cyclo
JD 494-1280, 7000-7300,
plate and plateless
White 5100
Koelzer Repair
Onaga, KS 785-857-3257

JD 5105M, FWA, LH reverser w/563SL loader, 900 hrs., excellent condition. 785-556-4248.

Gleaner Combines
'04 R75 RWA.....\$59,500
'94 R62 Deutz\$21,500
'91 R60 RWA\$13,500
'82 & '80 L2S\$8,500
EZ Trail Gravity Wagons,
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Verticals from \$888,
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Kansas Water photo contest launched; photos featured at the Governor's Water Conference in November

Kansas is blessed with great natural resources and Kansans are encouraged to capture the most vital of these, water. The Kansas Water Office (KWO) is accepting water photos to be featured at the 2018 Governor's Water Conference in November. The photos need to pertain to water or water use in

Kansas. Examples include all bodies of water, irrigation and agriculture, recreation and fun, or other water infrastructure.

Worthy entries will be selected for display at the 2018 Governor's Water Conference, scheduled for Nov. 13-14, 2018 in Manhattan. Attendees at the conference will have the

opportunity to vote for their favorite photo. The winning photo will earn feature photo at the 2019 Governor's Water Conference. It will also, along with second and third place, be displayed in Kansas State Capitol and the Kansas Water Office during the year.

Entries can be submit-

ted through the online portal on the KWO Website: www.kwo.ks.gov or should be sent to kwo-info@kwo.ks.gov with a minimum resolution of 300 dpi. The following formats are accepted: .jpg, .png and .gif. Participants have until October 12, 2018 to enter a maximum of five photos that follow contest guidelines. For more information for photo categories visit the KWO website.

By submitting photos, participants grant KWO permission to freely use and share photos at the Governor's Water Conference, on social media, web, publications and displays.

Updates on the contest will be distributed through the KWO social media pages on Facebook, Instagram and Twitter. For more information visit the KWO website.

The Governor's Conference on the Future of Water in Kansas is hosted by the KWO, K-State /Kansas Water Resource Institute. Major sponsors for the event include Black & Veatch, Burns & McDonnell and Great Lakes Dredge & Dock.

Marysville Livestock Sales

Every Thursday at 12 Noon

Bill Keesecker, Manager • 785-562-1015 1180 US Hwy. 77, P. O. Box 67, Marysville, KS 66508			
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STEERS/BULLS		BEEF	
300-400#	\$205.00-\$180.00	Market Report for 8-16-2018.	
400-500#	\$199.00-\$151.00	565 HEAD SOLD	
500-600#	\$172.00-\$135.50	HFRETES	
600-700#	\$168.00-\$145.00	1075#-780# \$151.25-\$124.00	
700-800#	\$161.35-\$133.00	COWS-HIGH YIELDING	
800-900#	\$151.00-\$130.00	1900#-1010# \$70.50-\$54.00	
900-1000#	\$154.00-\$140.00	COWS-LGT WT & LOW YIELDING	
HEIFERS		1450#-1035# \$53.50-\$31.00	
300-400#	\$179.00-\$139.00	BULLS	
400-500#	\$176.00-\$145.00	1900#-1450# \$84.50-\$77.00	
500-600#	\$159.00-\$137.00	FIELDMEN	
600-700#	\$146.00-\$137.00	Jeff Cook 785-564-2173	
700-800#	\$131.00-\$122.00	Hanover, KS	
800-900#	\$127.00-\$120.00	Barn Phone • 785-562-1015 www.marysvillivelivestock.com	
Jim Dalinghaus 785-799-5643 Baileyville, KS		Dave Bures, Auctioneer 402-239-9717 Odell, Nebraska	
		Greg Anderson 785-747-8170 Waterville, KS	
		Trevor Lundberg 785-770-2271 Frankfort, KS	

HARLEY GERDES LABOR DAY

CONSIGNMENT AUCTION

MONDAY, SEPTEMBER 3, 2018 — 9:00 AM

LOCATED ON 75 HWY, NORTH EDGE OF LYNDON, KS (30 MILES SO. OF TOPEKA)
Tractors & Misc. equip. lined in rows together.

****NOTE: This will be our LAST On Site auction. We will still Buy, Sell & Trade Daily - but we will be going to online only auctions.**

TRACTORS	HAY EQUIPMENT	MISC. EQUIPMENT
2001 JD 7810, CA, power quad, RH reverser, 3 pt., pto, 3,567 One Owner Hrs., Nice Hard To Find Tractor	HESSTON BP-20, bale processor JD 24-T, sq. baler JD 224-WS, sq. baler VERMEER twin rake JD 660, rake w/dolly wheel NH 259, rake w/dolly wheel, Good 10 wheel rake JD 39, 9', pull type, sickle mower NH 489, 9', swather BALEMASTER, hyd., bale un-roller JD, bale unroller	FORD 951-A, 5' HYDRA FORK, bale fork lift JD 404, irrigation motor DUNHAM, 8', packer HOLLAND TRANSPLANTER, Like New BUSHHOG, post hole digger, w/12" bitt, Like New Pasture renovator, 8' MILLER, Big 40, 4 cyl, gas, portable welder, works good KUBOTA, F-2560, 72" deck, 2214 hrs.
1996 JD 6400, CA, 3 pt., pto, w/side and rear mower, Good		SPRAYERS TOPAIR, 800 gal., pull type SCHABEN, 60 gal., for ATV
1995 JD 8770, CA, 4x4, 18.4x42 duals, Clean		LIVESTOCK EQUIPMENT 2) JD 700 grinder-mixers JD 400 grinder-mixer, Nice Bale ring Livestock shelter, 9'x20', port.
1995 JD 7400, CA, power quad, MFD, 3 pt., pto, w/JD 740 ldr.		TRUCKS, VEHICLES & TRAILERS 1990 FORD F-800, 6 cyl., ford diesel, 10 sp., tandem, air pusher, w/8'x12' rock bed, 329,078 mi. 1990 CHEVY S-10, V6, auto, 4x4, ext. cab. 1989 FORD Econoline, 350, 6.9, diesel, auto, w/8'x16' box 1985 DODGE Ram, V8, auto, w/7 1/2'x12' box FORD E-350, V8, auto, w/8'x14' box 2000 WABASH, 53'x 8 1/2', spring ride, van trlr. 24' and 20' truck van boxes
1992 JD 2555, ROPS, 3 pt., pto, 2,535 hrs., Nice	CONSTRUCTION 2004 CASE 621-D, wheel loader, CA, ASC, quick tach, 135 hsp., 6,505 hrs., Our personal loader for many years, Good Machine 2004 GEHL 4840, skid loader, 1,644 hrs. GALION 503, gas, 10' grader BOBCAT 15-C, hyd., post hole digger w/12" bitt, used very little MAH, 48", HD, skid loader forks Wheel loader pallet forks 24" post hole digger bitt CASE, 6', skid ldr. Bucket 24" backhoe bucket	TIRES Pr. Bridgestone 13.6x16, 6 bolt rims, Like New Pr. Firestone 18.4x38, clamp on duals Pr. Firestone 18.4Rx42 Pr. Firestone 23.1x26 Pr. Firestone 18.4Rx46 Pr. Firestone 24.5x32, diamond tread on 10 bolt rims Pr. Firestone 18.4x26 Pr. Firestone 30.5x32, Like New 3) Firestone 620Rx42 4) Firestone 20.8Rx42 4) Firestone 18.4x46 6) Firestone 710Rx42 4) 235x16, 14 ply trailer, Like New 4) Continental 18.4Rx38, 60% tread 20.8Rx42, 10 bolt duals Pr. STA 20.5x25 18.4x38, 10 bolt duals, fit JD 7255 4) TITAN 480Rx46 tires, New Pr. Goodyear 480Rx30 on 10 bolt rims Pr. Goodyear 18.4x26, diamond tread Pr. Goodyear 14.9x24 Pr. Goodyear 23.1x26 rice & cane on 8 bolt rims Pr. Goodyear 20.8Rx42 on 10 bolt duals Pr. Goodyear 18.4Rx38 3) Goodyear 480Rx50 Pr. BF Goodrich 16.9x24 on 8 bolt rims Pr., Dunlop 10.00Rx20 on 8 bolt rims Pr. Treadura 11.00x16 tires, New 3) 18.4Rx42 Pr. POWER KING 15.5x25 Pr. Michelin 15.5Rx25 Single Tires: Continental 340Rx24 on 8 bolt rim
1999 JD 4055, CA, quad, 3 pt., pto, 6,456 One Owner Hrs.	LOADERS & BLADES JD 725, w/QT, 6' bucket, Nice JD 2 valve joystick for 30-55 series tractors Loader boom FRONTIER, pallet forks, fits JD 740 ldr. 10', pull type HENKE, 11', snow BIG OX, 8', hyd. JD 95, 8' AC, 7', snap coupler Rear, 8'	
1988 JD 4450, CA, p.s., 3 pt., pto, 5,120 hrs., 18.4x38 duals	TILLAGE CIH 496, 20', disc IH 496, 24', disc 2) JD 235, 24', disc CRUSTBUSTER, 20', disc JD BWA, 18', disc KRAUSE 1592, 18', disc FORD, 18', rock flex, disc JD BWA, 14', disc IH 470, 14', disc 2) IH 37, 10' HUTCHMASTER, 12', offset, disc MILLER, 12', 3 bar, offset, disc BUSHHOG, 9', offset, disc GLENCOE, 6x30, cult. LILLISTON, 6x30, cult. IH 45, 16', filed cult. AC, 10', 3 pt., field cult. BRILLION, 10', packer LANDOLL, 12 shank, 3 pt., chisel IH 642, 4 btm., rollover, plow AC, 5 btm., plow AC, 4 btm., plow JD 400, 20', hoe IH 10, 7 shank, v-ripper KEWANEE, 4 sec. harrow HOWARD, 6', roto tiller, pull type YETTER, 15', rotary hoe 15) spring chisel shanks	
1985 JD 4650, CA, p.s., 3 pt., pto, new 18.4Rx42 duals, 5,444 actual hrs., Super Nice!	WAGONS JD 68, auger LUNDELL, gravity box DAKON, gravity box DONAHUE, 8'x28', trailer	
1983 JD 4050, CA, p.s., 3 pt., pto, 5,404 hrs., Clean	HEADS & HEADER TRAILERS 2008 CIH 1020, 25', flex, Nice 1991 CIH 1063, 6x30, corn head HIEBERT, 22', head trlr., w/ dolly wheel UNVERFERTH HT-25, head trlr. Homemade, 30', trl. Header trlr.	
1979 JD 4240, CA, p.s., 3 pt., pto, w/JD 148 ldr., 8,345 hrs.	PLANTERS & DRILLS JD 7000, 6x30, plate MARLISS, 12x10, 3 pt., no till JD 7300, 21x7, DD JD 450, 21x7, DD	
1969 JD 4020, Standard, cab, pto, w/ldr., weak clutch		
1967 JD 3020, p.s., 3 pt., pto, w/JD 148 ldr. w/valve		
JD 630, gas, 3 pt., pto, w/factory fenders, Bad Tire		
2002 AGCO ST-25, MFD, hydro, 3 pt., pto, 161 hrs., Super Nice		
1987 CIH 885, ROPS, 3 pt., pto, 4,480 hrs.		
1979 IH 1086, CA, 3 pt., pto		
1979 IH 284, gas, 3 pt., pto, 1,102 hrs.		
1976 IH 1086, CA, 3 pt., pto, 8,900 hrs.		
KUBOTA MX-5100, ROPS, 3 pt., pto, 623 hrs., Like New		
KUBOTA L-3710, HST, MFD, ROPS, 3 pt., pto		
1998 NH 8560, CA, 3 pt., pto, 5,018 One Owner Hrs.		
1998 NH TV-140, bi-directional, CA, 3 pt., pto, 6,035 One Owner Hrs., Never had a loader on it		
1996 FORD-NH 6640, CA, 3 pt., pto, 8,987 hrs.		
1989 FORD 6610, cab, no air, 3 pt., pto, 4,900 hrs.		
1979 FORD TW-10, CA, 3 pt., pto		
1977 AC 7045, CA, 3 pt., pto, Needs Work		
VERSATILE 850, Series II, CA, 3 pt., 30.5x32		

AUCTION NOTE: Lots of tractor weights & various parts, lots of misc not listed. Come Check It Out and bring your trailers. Will start on a trailer of misc.

For photos, Visit us on the web:

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RCLA Summer Tour set for August 26

The annual Riley County Livestock Association Summer Tour will be held on Sunday, August 26, 2018, starting at 5:00 p.m. at Vathauer Farms, 158 All American Road, Barnes. Scott Vathauer will be the tour host.

Vathauer Farms has both a cow-calf herd and a feedlot, in addition to an extensive cropping operation. Tour participants will learn about Vathauer's farming and livestock operations, and will view their livestock feeding and handling facilities.

From Randolph, Vathauer Farms is located 11 miles north on Hwy 77 (Cottage Hill), then 6 miles west and ½ mile south.

A free supper provided by the Riley County Livestock Association will be served following the tour. Food and table service are provided. Participants are asked to bring their own lawn chairs.

Reservations to attend the RCLA Summer Tour are needed by Wednesday, August 22. Register online at www.riley.ksu.edu, or call the Riley County Extension Office at 785-537-6350.



Winners of the 2018 Ottawa County Fair Horse Show were, from left: Jordan Murphy, Demanett-Martin Memorial Champion Senior Horse Showman; Karlee Thrush, Amber Luthi Memorial Champion Intermediate Horse Showman; Clayton Tunison, Grand Champion Halter Mare; Emery Lambdin, Champion Pony; Liam Nichols, Grand Champion Halter Gelding; Cole Casper, Champion Junior Horse Showman. Karlee Thrush was also awarded the Amos Nelson Memorial High Point Horse Award. Ryan Cole of Downs served as the judge for the horse show.

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New Dairy Revenue Protection insurance plan available nationwide

The U.S. Department of Agriculture's (USDA) Risk Management Agency (RMA) has announced a new insurance plan for dairy producers that insures against unexpected declines in quarterly milk sales. Sign-up for the new product begins Tuesday, October 9, 2018, with the first available coverage starting the first quarter of 2019.

"Expanding the Federal crop insurance program to markets that need it is key to an effective farm safety net. Because of cooperation with partners like the American Farm Bureau Federation, we are able to offer this new product in a way that

it can be flexible based on the needs of dairy producers," said Bill Northey, Under Secretary, Farm Production and Conservation.

The new plan, called Dairy Revenue Protection, provides insurance for the difference between the final revenue guarantee and actual milk revenue if prices fall. It also provides a greater choice of prices, from those that focus on cheese to fresh milk, protein or butterfat. Coverage levels are available from 70 to 95 percent of revenue. Dairy Revenue Protection is available in all counties in all 50 states.

Participating producers are not precluded from

participation in the USDA Farm Service Agency's Margin Protection Plan.

Those interested in purchasing Dairy Revenue Protection must do so through an agent selling on behalf of an approved insurance provider. A list of crop insurance agents is available at all USDA Service Centers and online at the RMA Agent Locator, located at www.rma.usda.gov/tools/agent.html.

Dairy Revenue Protection was developed and approved through the Federal Crop Insurance Act's 508(h) process, which allows private parties to develop insurance products that are in the best interests of producers, fol-

low sound insurance principles and are actuarially appropriate.

Dairy Revenue Protection is another risk management tool in the toolbox available to dairy producers. Federal crop insurance helps producers and owners manage risks and strengthens the rural economy. Additional information regarding Dairy Revenue Protection is available on the RMA website's Livestock page, located at www.rma.usda.gov/livestock/.

For more information about crop insurance and the modern farm safety net, visit www.rma.usda.gov.

Chopped corn silage offers better control for beef producers

Farmers are looking to drought-stressed corn for silage and balage to stretch limited hay supplies.

Chopped corn silage offers beef producers better options than balage, says University of Missouri Extension livestock specialist Gene Schmitz.

Silage allows better control of the amount of high-energy feed for wintering cattle, Schmitz says. Balage of-

fers less flexibility and control of portion size.

"From a diet perspective, we generally limit corn silage for beef cows to somewhere between 20 to 60 percent of diet dry matter, depending upon the stage of production, body condition and energy content of the silage," he says.

This prevents cattle from getting too fat and avoids unnecessary feeding costs.

"It's almost impossible to limit-feed a bale of corn silage unless it is tub-ground and mixed with grass hay and/or other feed ingredients," Schmitz says. "I think it is important to understand this limitation, especially if the silage is carrying some nitrate with it."

Schmitz says the best silage is finely chopped and tightly packed to get rid of excess oxygen. Cover immediately to protect against the elements, which cause spoilage and nutrient loss. Chop corn when it is still green. Moisture levels must be high enough, generally 60 to 70 percent, for corn to ferment properly. But it should not be too high or it will become prone to seepage and bacteria.

Pile silage on the ground and pack from all sides to feed, Schmitz says. Avoid putting silage in a hay "bunker" made out of round bales. It is difficult to rid the silage of oxygen in uncovered bunkers made of bales. Using bale bunkers leads to inadequate packing, shifting of bales during packing and possible tractor rollovers, he says.

Schmitz recommends that farmers who want to chop or bale corn should have the corn tested for nitrates at their county MU Extension center. High nitrate content leads to nitrate poisoning in ruminants. He also recommends testing silage for nutrient content and nitrates before feeding.

For more information, the MU Extension publication "Corn Silage" is available at extension.missouri.edu/g4590. A publication on drought-related issues in forage, silage and balage is available at extension.missouri.edu/agw1017.



Top bucket calf honors at the 2018 Ottawa County fair went to Carsen Nichols. He won the 7-8 year old division and went on to be named grand champion bucket calf showman. Judge for the bucket calf show was Jon Herbel of Lucas.

Fall Calving Cows Need Key Breeder Mineral!

Calf health & growth begins with cow nutrition:

The development of offspring is affected by a cow's nutrition even before the moment of conception.

Research shows that optimal trace mineral nutrition positively affects embryo & fetal development, which in turn results in improved calf growth performance.

Heavier calves when leaving the herd:

Beef cow diets supplemented with Availa-4 during the last 95 days of gestation were shown to increase herd productivity.

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JC LIVESTOCK SALES INC.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Report from August 15, 2018

STEERS			TOP BUTCHER COW: \$67.00 @ 1,500 lbs.
7	380	199.00	
10	495	179.00	
5	544	167.50	
2	683	158.00	
4	760	154.00	TOP BUTCHER BULL: \$85.50 @ 1,800 lbs.
30	989	136.50	
HEIFERS			BRED COWS: \$785-\$1,150
3	477	165.00	
6	641	150.00	PAIRS: \$1,725-\$1,925
2	658	149.00	
8	735	145.50	
11	732	144.00	NO HOG TEST
3	760	144.00	
63	800	141.00	
9	827	139.25	

SPECIAL FALL CALF SALE

MONDAY, SEPT. 17TH AT 7PM

Please check our Facebook page

- Junction City and Clay Center Livestock Sales -

for up to date consignments & videos.

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

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Cell: 785-761-5813

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

Clay Center Field Representatives:

Tom Koch, 785-243-5124

Lance Lagasse, 785-262-1185

CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

Report from August 14, 2018

STEERS			TOP BUTCHER COW: \$68.50 @ 1,530 lbs.
2	418	181.00	
5	503	174.00	
3	627	155.00	
3	740	150.00	
3	852	148.00	TOP BUTCHER BULL: \$82.00 @ 1,915 lbs.
4	949	146.00	
HEIFERS			
1	435	155.00	

Make Sure to Attend Our Special Anniversary Sale;

Tuesday, August 21st

Check our Facebook page for videos and consignments.

NEXT SHEEP & GOAT SALE SATURDAY, SEPTEMBER 1

10:00 A.M. — EQUIPMENT & HAY

10:45 A.M. — SHEEP & GOATS



Winners of the 2018 Ottawa County Fair Round Robin Showmanship Contest were, from left: Gabe Hueser, reserve champion junior; Josi Schrader, champion junior; Weston Schrader, champion senior; and Jordan Murphy, reserve champion senior. Weston was also the high individual and received the Fred Dewey Memorial Traveling Cup. Judges for the event were Jake Renner of Kingman and Ashley Long of Salina.

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Date: 8/15/18. Total Head Count: 868.

HEIFERS			STEERS
9 mix.....	611@44.00	17 blk.....	
24 mix.....	642@144.00	8 bkbwf.....	
11 mix.....	675@140.00	28 mix.....	
92 mix.....	797@136.75	13 mix.....	
9 mix.....	732@133.75	9 mix.....	720@147.50
76 mix.....	879@137.35	12 blk.....	713@145.00
15 mix.....	922@130.75	99 mix.....	856@149.50
			10 mix calves
6 mix.....	613@161.00	110 bkbwf.....	840@135.25
5 bkbwf.....	646@153.00	53 mix.....	941@149.10
10 bkbwf.....	709@159.50	55 blk.....	930@143.00
			977@141.60

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Injectable trace minerals improve oxidative stress after aflatoxin challenge in dairy cows

When dairy cattle consume aflatoxin-contaminated feed, they are lethargic, their appetite wanes, they produce less milk, and their immune system goes awry. Some of those symptoms relate to oxidative stress, in which dangerous free-radicals bounce around, damaging cells. In a new study, researchers at the University of Illinois investigated the potential of injectable trace minerals to reduce the damage and keep dairy cows healthier.

"If we're providing enough trace minerals to manufacture more detoxifying enzymes, the liver has a better chance of

fighting the aflatoxin," explains Russell Pate, doctoral student in the Department of Animal Sciences at U of I and lead author on the study.

Phil Cardoso, assistant professor in the department and co-author on the paper, adds that an injectable product could be helpful during aflatoxin challenge, when a cow's appetite is suppressed. "Our idea for injecting is that it might help during a time when intake is impacted. If something is causing her to eat less, she'll consume less of any diet-based mineral too."

The researchers injected lactating Hol-

steins with Multimin®90, a commercially available injectable trace mineral formulation, twice, approximately a month apart. Another set of animals received a saline injection only, but both sets received the recommended amount of trace minerals in their diet. About a month after the second injection, the researchers used a balling gun to introduce aflatoxin-contaminated feed to half of the animals.

Cows receiving aflatoxin and saline had greater liver inflammation and lower feed efficiencies than cows that weren't exposed to aflatoxin. But

introducing Multimin®90 to aflatoxin-challenged cows increased liver concentrations of selenium and iron. It also bumped up the activity of serum glutathione peroxidase, whose job is to protect cells from oxidative damage by neutralizing free-radicals.

"As we had hypothesized, supplying cows with trace minerals via injection, independent of minerals ingested in the feed, resulted in an improved immune response and reduced oxidative stress when cows were challenged with aflatoxin," Pate says. Trace minerals are co-factors of

enzymes responsible for alleviating the oxidative stress in animals.

Aflatoxin M1 was present in all milk samples for cows that received the contaminated feed. In other words, injectable trace minerals didn't prevent transfer of the toxin into the milk. The researchers were not surprised by the result, though.

"We knew it would not help with transference to the milk. If the cow is exposed, she needs to excrete that toxin through milk, urine, feces; anywhere to get rid of it," Cardoso explains. "To stop transference to the

milk, you have to first identify the source of the aflatoxin and avoid feeding it. But sometimes you just can't. In those cases, we are showing for the first time that an injectable trace mineral will provide a benefit."

The article, "Injectable trace minerals (selenium, copper, zinc, and manganese) alleviates inflammation and oxidative stress during an aflatoxin challenge in lactating multiparous Holstein cows," is published in the *Journal of Dairy Science* [DOI: 10.3168/jds.2018-14447]. The project was partially funded by Multimin North America.

MU food scientist studies soy rations for swine, poultry to add high-oleic fat

To make better bacon, feed a better soybean. Bryon Wiegand, University of Missouri food scientist, studies the use of Missouri's high-oleic soybean oil

in livestock rations.

In a report at Soy Day, Wiegand joined MU faculty telling farmers how their soybean checkoff dollars support research.

They spoke at the Bay Farm Research Facility east of Columbia.

MU plant breeders developed soybean varieties high in desirable high-oleic oil, a monounsaturated fat used in healthy diets.

"Bacon becomes a favorite garnish on everything," Wiegand said. Bacon isn't an unsaturated fat. His research shows high-oleic traits from the soybean transfer to animals.

High-oleic oil helps heart-healthy characteristics and adds storage life to food. The pork industry stores tons of pork sides to make bacon, Wiegand said.

Introducing "new soybean uses" talks, Tony Stafford of the Missouri Soybean Merchandising Council said, "Farmers took a serious hit on soybean prices in the last 90 days." Markets show a \$2 per bushel drop in prices.

"With fewer exports, we

must find new uses," Stafford said. Both pork and soybean exports were hit by retaliatory tariffs from China. Chinese use both soy and pork in their diets, making them big buyers.

Using high-oleic soybean oil and meal isn't new for Wiegand. He started livestock ration studies on lambs. Like cattle, sheep have rumens that break down feed into usable nutrients.

But rumens alter oleic carbon chains and desirable traits don't easily pass to animal meat or fat.

Pigs, broilers and laying hens are non-rumen animals. "Pigs are what they eat," Wiegand said. "The oleic nonsaturated fat passes through to animals."

His research continues. "Broiler chicks have been fed high-oleic soybean diets, but that data isn't analyzed," he said.

Next up is a laying hen

study. This isn't to improve hen flesh for chicken soup but to improve egg yolks. "Already you can buy eggs with high omega-3 fatty acid," Wiegand said. "We aim to add high-oleic content."

Another high-oleic soybean study continues at the MU South Farm, where 30 steers are on oleic feed.

Soy Day, sponsored by the Missouri Soybean Merchandising Council, featured other researchers from the nearby Bradford Farm, part of the MU College of Agriculture, Food and Natural Resources. A big part of merchandising council dollars goes for research helping farmers.

MU researcher Andrew Scaboo leads a team of plant breeders making new soybean varieties. Kevin Bradley, MU weed scientist, told of his studies to alleviate off-site damage from herbicides. John Lory, MU Extension soil scientist, led talks on

MU certified strip trials on farms across the state.

High-oleic soybean varieties were first developed by MU plant breeders. They used non-transgenic methods. Non-GMO crops open European Union markets. MU holds the patent with USDA on the high-oleic oil soybean. Missouri Soybean Merchandising Council owns exclusive licensing of varieties from its research dollars. Dollar returns come to Missouri farmers. Soybeans are the top cash crop in Missouri. Breeding high-oleic soybean came from MU plant geneticist Grover Shannon and USDA Agricultural Research Service scientist Kristin Bilyeu at MU. For lunch at Soy Day, food was deep-fried in high-oleic oil.

Earlier, the merchandising council estimated 18 million soybean acres are needed to meet U.S. demand.



The grand champion horse at the Geary County Free Fair was an aged mare shown by Taylor Gustafson.

Marshall County Pasture & Old World Bluestem Management Tour
September 4 • 5:30 PM
Supper to Follow
2.5 miles East of the Old Czech Church
(On Cyclone Ln Between 10th & 11th Rd, Blue Rapids, KS)

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Control of Old World Bluestem
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Speakers:

- Dr. Walter Fick
KSU Range Management Professor
- Will Boyer
KSU Northeast Kansas Watershed Specialist
- Dusty Schwandt
NRCS Rangeland Management Specialist

Rain Date: September 5

Sponsored By:



Samantha Shefelton took home the grand champion dairy goat with this senior doe at the Geary County Free Fair. Shefelton also took home reserve champion goat showmanship honors.



The reserve champion dairy goat was awarded to Samantha Shefelton's senior doe at the Geary County Free Fair.

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We sold 1845 cattle August 14. Steer and heifer calves were in good demand at higher prices. Feeder steers and heifers sold \$2.00-4.00 higher. Cows and bulls were steady.

STEER & BULL CALVES	
4 blk str	366 @ 210.00
3 blk/bwf str	350 @ 205.00
2 blk str	420 @ 203.00
2 blk/char str	373 @ 196.00
4 blk/red str	459 @ 195.00
4 blk/bwf str	485 @ 195.00
6 blk bulls	458 @ 195.00
12 blk str	503 @ 194.00
3 blk bulls	485 @ 194.00
3 blk/bwf bulls	500 @ 184.00
2 blk str	468 @ 181.00
7 blk/char str	520 @ 180.00
2 red/char bulls	420 @ 179.00
3 blk str	537 @ 178.00
2 blk/red bulls	483 @ 174.00
6 wf str	463 @ 168.00
2 blk bulls	528 @ 168.00
3 blk/sim bulls	548 @ 167.50

STOCKER & FEEDER STEERS	
2 blk/bwf str	583 @ 171.50
5 blk/red str	630 @ 170.00
5 blk str	560 @ 169.50
15 blk/bwf str	651 @ 167.00
24 blk str	668 @ 165.75
55 blk/char str	696 @ 164.00
126 blk/bwf str	737 @ 163.75

2 blk/red hfrs	503 @ 166.00
2 blk/char hfrs	513 @ 157.50

STOCKER & FEEDER HEIFERS	
10 blk/bwf hfrs	599 @ 169.00
3 blk hfrs	607 @ 166.00
5 blk hfrs	614 @ 166.00
10 blk/red hfrs	637 @ 166.00
26 blk hfrs	617 @ 165.00
8 blk hfrs	659 @ 164.00
3 blk hfrs	598 @ 161.00
5 blk/red hfrs	664 @ 157.00
6 blk hfrs	698 @ 153.00
140 blk/bwf hfrs	716 @ 152.60
33 blk/bwf hfrs	727 @ 149.00
3 blk/bwf hfrs	627 @ 147.50
3 blk hfrs	625 @ 144.00
3 blk/char hfrs	717 @ 143.00
63 blk/bwf hfrs	823 @ 140.50
12 blk/char hfrs	823 @ 135.75

COWS & HEIFERETTES	
1 char hfrt	1370 @ 69.00
1 blk cow	1575 @ 68.50
1 blk cow	1245 @ 67.00
1 blk cow	1585 @ 66.50
1 wf cow	1110 @ 64.00

1 red cow	1210 @ 63.00
1 wf cow	1065 @ 62.00
1 blk cow	1235 @ 61.50
1 blk cow	1110 @ 60.50
1 bwf cow	1440 @ 60.00
1 blk cow	1365 @ 59.00
1 wf cow	995 @ 57.50
1 blk cow	1145 @ 57.00
1 blk cow	1455 @ 56.50
1 bwf cow	1085 @ 53.50
1 blk cow	1110 @ 53.00
1 blk cow	1220 @ 52.50
1 blk cow	1220 @ 52.00
1 blk cow	965 @ 51.00
1 blk cow	1375 @ 50.00

BRED COWS & HEIFERS	
5 wf cows	@ 975.00
5 wf cows	@ 875.00
1 blk hfr	@ 800.00
7 wf cows	@ 785.00
10 wf cows	@ 750.00

COW/CALF PAIRS	
8 blk/bwf cows/cvs	@ 1585.00
3 wf cows/cvs	@ 1310.00
4 bwf cows/cvs	@ 1300.00

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CONSIGNMENTS FOR AUGUST 21:

- 250 Hereford steers, 700-800 lbs., off grass, vacc., Brainard Cattle Co., no implants
- 30 black steers, 600-700 lbs., weaned, vacc.
- 64 black heifers, 700-725 lbs., off grass
- 60 black heifers, 700-725 lbs.
- 120 black steers, 825-850 lbs., Northern origin, off grass
- 124 black steers, 775-825 lbs., off grass
- 110 blk Charolais steers, 775-800 lbs., off grass
- 55 black steers, 750-800 lbs., off grass
- 60 black steers, 850-900 lbs., off grass
- 180 blk Charolais steers, 750-800 lbs., off grass
- 20 blk cows, 3-5 yrs old with 300-500 lb. calves

CONSIGNMENTS FOR AUGUST 28:

- 220 blk Charolais steers, 750-875 lbs., off grass

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