

A Little Scare

The spring of 1874 was an uneasy season for settlers on the southern Kansas frontier. The Comanches attacked Kansas buffalo hunters at Adobe Walls in late June. The hunters who were illegally hunting below the Kansa border relied upon their long-range rifles to repel the all-out attack and three-day siege. On July 2, 1874, rumors that Indians were following the war-path frightened settlers along Cowskin Creek, just beyond Wichita. Panicked families swarmed into Wichita with hastily loaded wagons. Settlers from farther away arrived the next day only to discover there were no Indians in the

county.

However, on July 4th, just as settlers were returning home, a small wagon train was attacked in Indian Territory. The bodies of freighter Pat Hennesey and two men in his employ were found along the Chisholm Trail on July 6, 1874. A Cheyenne war party was suspected.

The news forced the Laffin freighting company to circle their wagons. A messenger rode to Caldwell while the freighters prepared for an attack. At Caldwell twenty well-armed men started down the trail to relieve the wagon train the evening of July 7th.

The *Wichita City Eagle* of

July 9, 1874, reported, "Bands of murdering, thieving red devils have been scouring the country between Ft. Sill, in the Indian Territory, and Ft. Dodge, on the Arkansas river..." The report claimed that four or five men and one boy had been killed in the past three months, citing "murders committed on the Medicine Lodge river and near Ft. Dodge."

The "scare" was heightened by the news of the Hennesey massacre. The freighters had just left Wichita ten days before, "their teams loaded for Fort Sill." Another man, the brother-in-law of Wichita's Joe Hooker was believed killed near the state line and Hooker was on the trail "to ascertain the facts."

The Wichita paper further reported that "The country is full of rumors which grow into frightful stories, and the further one is from any actual danger, the more bloody and sanguine are the tales doled out."

Meanwhile, the scare quickly spread along the frontier. The morning of July 7th, the day after Hennesey was found, Mr. and Mrs. Charles Robinson awoke to find a throng of people passing by their humble prairie home. Mrs. Robinson later recalled

that day on Shoo Fly Creek (present-day South Haven, Kansas), "...people were passing, driving their stock before them and their wagons loaded with such household goods as they could load on." Panic filled the air. Everyone was in "a great hurry" to get away. They carried "news" that the Indians were to the west at Caldwell, murdering and scalping settlers. With only a single ox team to carry them and their possessions the Robinsons resigned to stay and face the consequences. Rather than face a fight with their slow-moving team on the open prairie the Robinsons and five other families "forted up" in the largest house in the community and waited.

North of the Robinsons, settlers were streaming into Wellington. Several companies of armed men were organized to meet the approaching warriors. All expected a great Indian war.

The *Eagle* editor almost seemed to relish the idea. "The only way to deal with an Indian when found off the reservation is to kill him. There is no good in them. It is an Indian's ambition - his whole life's desire, to murder and steal... Their destiny is extinction and the quicker it is done the better for all concerned."

Armed men went out on the trail. Companies drilled and waited, but the hated "red devil" failed to show. Evidence at the scene of the Hennesey murders strongly suggested the vile deed was done

by men in high-heeled boots. On Cowskin Creek, rumors of Indians lurking about were spread by a known horse thief, Hurricane Bill Martin. The plan was to steal the livestock left behind by fleeing settlers. However, Martin overplayed his hand in Wichita and was thrown in jail just as the Indian scare was unfolding on July 6th.

Down on Shoo Fly Creek the Robinsons heard that the horse thieves had been hanged. That story apparently originated at Guelph, Kansas, where an unnamed Texas man spread stories of marauding Indians.

According to the *Arkansas City Traveler* some local men took him for a jaunt "where the woodbine twineth,"

Ultimately, outlaws proved more of a threat to settlers than Indians. At the *Eagle*, the editor had to admit that the big Indian war was nothing more than a little "scare" on The Way West.

"The Cowboy," Jim Gray is author of the book *Desperate Seed: Ellsworth Kansas on the Violent Frontier*, Ellsworth, KS Contact Kansas Cowboy, 220 21st RD Geneseo, KS Phone 785-531-2058 or kansascowboy@kans.com.



Six-and-a-half-year-old Eva is shown driving her 1983 Montgomery Ward tractor she named Pickle. She loves to mow and dress up when doing her work. The blades on the mower are permanently disengaged.

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JULY 17-20, 2019

Sylvan Grove, Kansas

FRIDAY JULY 19TH @ 7 PM

INFLATABLES
\$5 WRISTBANDS
AVAILABLE EACH NIGHT

Cattlemen's BBQ Supper,
Thurs. July 18th,
5:30-7 pm
Ice Cream Sponsored By:
The Bennington State Bank

RANCH RODEO

FRIDAY, JULY 19 • 7 PM
ADMISSION BY DONATION

Teams of 4 cowboys will be competing in events that could be done in their everyday life on the range

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EMILY CARNEY, 785-531-1066

Demolition Derby
SATURDAY, JULY 20
7:30 PM @ THE FAIRGROUNDS
Fireworks to follow
HOMEMADE PIE & ICE CREAM CONTESTS
FRIDAY, JULY 19TH
GRAND STAND
5:00 PM - CHECK IN
5:30 PM - JUDGING

ENTER TO WIN!
1ST PLACE - \$75
2ND PLACE - \$50
3RD PLACE - \$25
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For our sale Friday, June 28, the bulk of the run was 600-850 lb cattle and they were selling from steady to \$2 higher. The lighter cattle were selling mostly steady to spots weaker on the kind offered. Cull cows and bulls were selling \$2-\$3 higher.

BULL & STEER CALVES — 300-525 LBS

Allen	6 blk	447@163.50
Green	5 blk	322@161.00
Green	14 blk	471@157.50
Basehor	5 blk	514@145.00

BULLS & STEERS — 575-875 LBS

Eudora	8 blk	601@153.50
Eudora	11 blk	698@148.00
Carbondale	8 Rd Ang	633@145.00
Baldwin City	8 blk	664@144.50
Green	16 blk	600@142.50
Wamego	9 blk	747@140.50
Seneca	60 blk	851@139.75
Basehor	7 blk	796@138.75
Leavenworth	9 Cross	732@137.50
Leavenworth	6 Cross	595@137.00
Blaine	5 blk	597@136.00
Eudora	6 blk	603@129.00
Eudora	12 blk	722@125.00
Basehor	9 blk	685@120.50

HEIFER CALVES — 350-500 LBS

Eudora	8 blk	496@145.00
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SUMMER SCHEDULE:

July 5: No Sale • July 12: Regular Schedule

Basehor	6 blk	456@142.50
Allen	5 blk	447@140.00
Green	6 blk	353@135.00

HEIFERS — 550-800 LBS

Eudora	9 blk	585@141.50
Wamego	4 mix	578@139.50
Carbondale	6 Ang	562@139.50
Carbondale	50 Ang	690@135.25
Junction City	34 mix	741@134.75
Allen	6 blk	557@132.50
Basehor	15 blk	608@130.50
Seneca	21 blk	790@124.00
Basehor	5 blk	782@114.00

BULLS — 1,325-2,150

Waterville	1 blk	1915@92.00
Randolph	1 blk	2040@85.00
Waterville	1 blk	1845@83.00
Frankfort	1 blk	1340@83.00
Goff	1 blk	1800@82.00
seneca	1 blk	2135@81.00
Manhattan	1 blk	1445@80.00
Olsburg	1 blk	2035@79.00
Waterville	1 blk	1485@77.00
Baileyville	1 blk	1350@71.00

COWS & HEIFERETTES — 625-1,975 LBS

Wamego	1 blk	710@115.00
Wamego	1 blk	635@112.00
Wamego	1 blk	1015@89.00
Council Grove	1 blk	1960@79.00
Frankfort	1 Cross	785@79.00
Manhattan	1 Rd Ang	1500@77.50
Centralia	1 blk	1835@77.50
Frankfort	1 Cross	1440@77.00
Manhattan	1 Rd Ang	1500@76.50
Grantville	1 bwf	1490@74.00
Baileyville	1 blk	1485@72.00
Goff	1 blk	1700@68.00
Waterville	1 blk	1275@67.00
Baileyville	1 blk	1320@66.00
Wamego	2 blk	1582@63.50

Wamego	2 blk	1452@63.00
Council Grove	1 blk	1400@62.00
Goff	1 blk	1365@58.50
Goff	1 blk	1145@57.00
Perry	1 blk	1130@56.00
Baileyville	1 blk	1190@56.00
Baileyville	1 blk	1140@55.50
Grantville	1 blk	1305@55.00

BABY CALF

Perry	1 blk	245@480.00
Leonardville	1 blk	@410.00
Perry	1 blk	185@400.00
Wamego	1 bwf	@300.00
Leonardville	1 blk	@260.00

COW/CALF PAIRS

	AGE	
Perry	4 blk	5-6 @1550.00
Perry	2 blk	7-8 @1475.00
Perry	2 blk	SS @1375.00
Perry	2 blk	7-8 @1300.00

EARLY CONSIGNMENTS FOR JULY 12

- 131 choice blk str & hfrs, Fall shots, no implants 700-800 lbs.
- 27 choice reputation Angus str & hfrs, one rd shots, 600-750 lbs.
- 8 blk & bwf replacement quality hfrs, weaned April, 675-725 lbs.

EARLY CONSIGNMENTS FOR JULY 19

- 12 blk str & hfrs, weaned, all shots, 600-650 lbs.

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Dr. Jake and comrades have been readying stage coaches to ply the Smoky Hill Trail once more. They just had a wheelwright session at the museum. The boys were in hog heaven.

On July 12, 13, and 14, the Butterfield Trail Museum at Russell Springs and the Fort Wallace Museum will bring the Butterfield Overland Despatch back to life when stages once again ply the Smoky Hill Trail. Gathering in Russell Springs on Friday evening, supper will be served, stages will gather in the park, and a screening of *Thof's Dragon* will be offered on the museum lawn. Following breakfast on Saturday morning, the stages will head to the next station at Henshaw Springs (the Bertrand Ranch) before making the rest of the journey to Pond

Creek Station.

There are so many activities planned for the entire weekend.

Russell Springs is hosting a Draft Horse Trail Competition and Feed Team Race in the arena at 10:30 a.m. Central time. Admission is by donation and there is a \$25 fee for teams. Contact Ron Henry (evenings) at 785-443-4583 or Sharon Henry at 620-874-0193 for more information.

While the stages are making their way along the trail, an encampment of living history presenters will be set up at the Fort Wallace Museum. Opening at 10 a.m. Mountain time (you cross time zones at the Wallace County line), there will be leather workers, a blacksmith, wheelwright, baker, laundress, native plant expert, and much more.



B/C Georgia 8428 won grand champion bred-and-owned female at the 2019 Kansas Junior Angus Association Preview Show, June 1-2 in Hutchinson. Austin Woodrow, Emporia, owns the October 2018 daughter of Duff Carry On 252. She first claimed senior calf champion. Brittney Creamer, Montrose, Colo., evaluated the 94 entries.

Photo by Jeff Mafi, American Angus Association

At 2 p.m. Mountain time, author/historian Michelle Martin, from Phoenix, will speak on the experiences of Natalie and Sandy Forsythe as they made their way in the late summer of 1905 from the east coast to the monument dedication at Beecher Island Battlefield.


At 4 p.m. and 7:30 p.m. Mountain time, *Hell on Wheels*, an original comedy by Marla Matkin will be presented on the grounds of the Fort Wallace Museum. The comedy co-stars Mark Berry, Kevin Soderland, and Mark Ferguson. Marla is an accomplished playwright and actress, and the museum has been fortunate to have her appear at many of our events. This will also be the debut of her new children's book with illustrations by acclaimed artist Ronald Kil.

Special guests for the events will be western writer Monty McCord and actor/historian Peter Sherayko (Texas Jack Vermillion in the movie *Tombstone*). They will be passengers on the stage, as will be historian Mike Baughn

and Capt. Myles Keogh, as portrayed by New Yorker Bill Rini.

On Sunday morning, a memorial service will be held for Dr. Theophilus Turner, who died at the post 150 years ago this July. He and Scout William Comstock discovered the plesiosaur fossil that is the subject of the film *Thof's Dragon*.

So much hard work and hundreds of volunteer hours go into planning all these events and we hope you can come out and join us. We have really worked hard at the collaboration between the sites/



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6/26/19 SALE RESULTS			
COWS & HEIFERETTES			
Gypsum, 1 blk	1495@76.00	Jnctn City, 1 rwf	1375@64.00
Wichita, 1 blk	910@76.00	Jnctn City, 1 rwf	1220@63.00
Wichita, 1 blk	1490@75.00	Herington, 1 blk	1325@59.00
Herington, 1 blk	1620@72.00	Lncnlvle, 1 red	1265@55.00
Wichita, 1 blk	1430@70.00	BULLS	
Jnctn City, 1 rwf	1395@69.00	Wilsey, 1 blk	1,290@86.00
Wichita, 1 red	1125@69.00	Herington, 1 blk	2,225@83.00
Wichita, 1 red	1295@68.00	Cedar Point, 1 red	1,725@81.00
Jnctn City, 1 rwf	1200@66.00	Wilsey, 1 blk	1,050@80.00
Jnctn City, 1 rwf	1210@66.00	Wilsey, 1 blk	1,055@75.00
Jnctn City, 1 rwf	1390@66.00	Lncnlvle, 1 red	1685@75.00
Jnctn City, 1 rwf	1210@66.00	Cedar Point, 1 red	1,650@70.00
Wichita, 1 blk	1205@66.00	Cedar Point, 1 red	1,985@70.00
Jnctn City, 1 rwf	1265@65.00	STEERS	
Jnctn City, 1 rwf	1295@64.50	Enterprise, 2 red	415@144.00
Jnctn City, 1 rwf	1185@64.00	Wilsey, 6 blk	618@143.50
Jnctn City, 1 rwf	1415@64.00	Abilene, 5 mix	575@140.00
		Burdick, 58 blk	886@138.10
		Herington, 10 blk	819@128.25
		Hope, 107 mix	903@127.10
		Lncnlvle, 57 mix	917@126.75
		Hope, 5 blk	789@125.50
		Hope, 72 mix	931@125.00
		Hope, 4 blk	885@123.50
		Herington, 3 blk	983@115.50
		Herington, 56 mix	931@110.00
		HEIFERS	
		Wilsey, 6 blk	558@132.00
		Enterprise, 7 mix	465@130.00
		Jnctn City, 3 rwf	563@127.50
		Enterprise, 7 rwf	716@125.75
		Herington, 6 blk	714@125.00
		Hillsboro, 62 blk	862@121.50
		Enterprise, 2 rwf	853@117.50

THERE WILL BE NO SALE HELD JULY 3rd

EARLY CONSIGNMENTS FOR JULY 10

- 49 mixed strs, straight off grass, 875 lbs.
- 50 mostly blk strs, straight off grass, 875 lbs.

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counties, and with the weather, it has been challenging to schedule. Nearly everyone involved works in farming or ranching, and harvest schedule is a mess. Many of them are making great sacrifices for these events, to keep their sites going.

See you on the Smoky Hill

Trail!

Deb Goodrich is the host of the *Around Kansas TV Show* and the *Garvey Historian in Residence* at the Fort Wallace Museum, as well as the chair of the 200th anniversary of the Santa Fe Trail in 2021. Contact her at author.debgoodrich@gmail.com.

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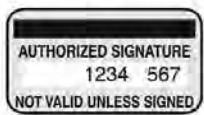
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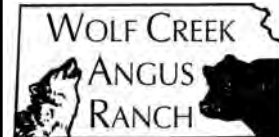
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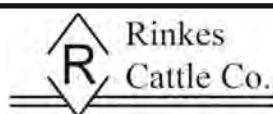
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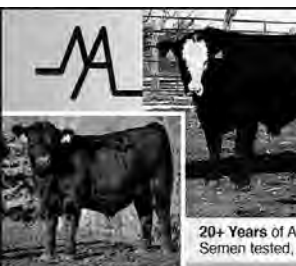
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Kansas Hay Market Report

Hay market trade has slowed, activity and demand is slow to moderate. Prices remained generally steady, however, we continue to see a downward trend in price for both old and new crop grinding alfalfa. Rain continues to hamper haying activities and the frustration is evident. Those that have been able to get alfalfa hay baled are averaging 2.0-3.0 tons per acre. If you have any extra hay to sell and/or need hay here in Kansas, use the services of the Internet Hay Exchange: www.hayexchange.com/ks.php.

Southwest Kansas

Dairy alfalfa, grinding alfalfa and ground/delivered, steady; movement slow to moderate. Alfalfa: horse, premium small squares 250.00-270.00. Alfalfa: Dairy 1.00-1.05/point RFV, Supreme 185.00-210.00, Premium 170.00-195.00, Good 160.00-170.00. Stock or Dry Cow old crop 185.00-195.00, new crop 160.00. Fair/Good grinding alfalfa, old crop 160.00-170.00, new crop 110.00-135.00. Ground and delivered locally to feedlots and dairies, old crop 195.00-205.00, new crop 135.00-160.00; Triticale: large rounds, new crop 60.00-80; The week of 6/16-6/22, 7,767T of grinding alfalfa and 1350T of dairy alfalfa were delivered.

South Central Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, grass hay, alfalfa sun cured pellets, steady; alfalfa dehydrated pellets steady 5.00 higher; movement slow to moderate. Alfalfa: horse, small

squares 200.00-210.00. Dairy, 1.00-1.10/point RFV, Supreme 195.00-215.00, Premium 175.00-200.00, Good 165.00-175.00. Stock cow, 140.00-160.00. Fair/Good grinding alfalfa, old crop 120.00-140.00, new crop 100.00-120.00. Ground and delivered locally to feedlots old crop 165.00-185.00, new crop 140.00-150.00; Alfalfa pellets: Sun cured 15 pct protein 205.00-220.00, 17 pct protein 210.00-230.00, Dehydrated 17 pct *295.00-305.00; Sudan: large rounds 75.00-85.00; The week of *6/16-6/22, 5,533T of grinding alfalfa and 675T of dairy alfalfa were delivered.

Southeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, grass hay steady; movement slow to moderate. Alfalfa: horse or goat, 220.00-240.00. Dairy 1.00-1.05/point RFV. Stock cow 170.00-180.00. Fair/Good grinding alfalfa, none reported. Ground and delivered, none reported; Grass hay: Old crop bluestem, premium small squares 140.00-150.00. Good, mid to large squares, 100.00-130.00, large rounds 95.00-110.00. Old crop Brome, good, small squares none reported, mid to large squares 140.00-155.00, large rounds 125.00-135.00; Sudan: large rounds 75.00-85.00; Oat hay, mid squares 60.00/bale; Wheat Straw: mid and large squares 75.00-100.00. Mulch: large rounds 50.00-60.00. The week of 6/16-6/22, 950T of grass hay was delivered.

Northwest Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: Horse or goat, 220.00-230.00. Dairy, Premium/Supreme 1.00-1.05/point RFV. Stock cow, fair/good 150.00-160.00. New crop fair/good grinding alfalfa, 105.00-115.00. Ground and delivered locally to feedlots and dairies, 130.00-140.00.

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: horse, new crop, premium small squares 9.50-10.50/bale. Dairy 1.00-1.05/point RFV, Supreme 185.00-210.00, Premium 170.00-195.00, Good 160.00-170.00. Stock Cow, old crop, 195.00-200.00. New crop fair/good, grinding alfalfa, 130.00-140.00. Ground and delivered 155.00-165.00. Grass hay: Bluestem, small squares 8.00-8.50/bale, large squares 120.00-130.00, large rounds 100.00-110.00. Brome, small squares 8.50-9.50/bale, large squares 145.00-155.00, large rounds 100.00-110.00 with an instance at 115.00-120.00; Sudan: large rounds 80.00-90.00; Wheat Straw: mid squares 80.00-90.00, and large rounds 60.00-70.00. The week of 6/16-6/22, 534T of grinding alfalfa and 400T of dairy alfalfa were delivered.

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

*CWF Certified Weed Free

*RFV calculated using the Wis/Minn formula.

***TDN calculated using the Western formula. Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%). Guidelines are to be used with visual appearance and intent of sale (usage).*

Source: Kansas Department of Agriculture - Manhattan, Kansas Kim Nettleton 785-564-6709

Posted to the Internet: www.ams.usda.gov/mnreports/DC_GR310.txt

High hog prices and trailing pork prices compress processor margins

Pork exports are expected to increase more than 7% next year as Mexican demand for U.S. pork was reestablished following the lifting of tariffs in May, according to the latest USDA Livestock, Dairy, and Poultry Outlook says.

Estimated gross processing margins have been consistently year-over-year lower since early April, says Mildred Haley, USDA agricultural economist. Although second-quarter prices of both hogs and wholesale pork cuts have been year-over-year higher, hog prices have increased relatively faster, squeezing processor margins as a result.

Undoubtedly, the rescission of Mexican tariffs on U.S. pork largely prompted upward revisions in U.S. pork export forecasts for both 2019 and 2020, Haley says.

In April and May of this year, the price of 51-52% lean hogs averaged \$58.65, more than 35% above prices in the same period of 2018. This jump was partly due to an increase in the demand for hogs and partly due to the African swine fever (ASF) situation in China and its implications for U.S. pork exports to China.

“It is notable that along with the larger April-May slaughter numbers, the U.S.

processing sector produced more pork products, and that those products cleared the wholesale market at higher wholesale prices,” Haley says. “A larger volume of pork selling at higher prices points to increased pork demand.”

In particular, given that April pork exports were more than 4% lower than a year earlier, higher market-clearing wholesale pork prices suggest a strong increase in domestic demand. Weekly federally inspected pork production for April and May was 4% higher than a year ago, and the wholesale carcass cutout price averaged almost 20% above April-May of 2018.

“Wholesale price increases were not sufficient to offset larger hog price changes, however, and processor margins declined as a consequence,” Haley says.

Hog price forecast still above a year ago

For the second quarter, hog prices are expected to average \$58 per cwt, more than 21% higher than the same period a year ago. Forecasts for third- and fourth-quarter hog prices were lowered slightly to \$60 and \$56 per cwt, respectively.

These prices reflect slightly weaker expected packer demand for hogs, Haley says,

although continued robust demand—both domestic and foreign—for U.S. pork products will underpin prices at above year-ago levels through the balance of 2019.

Meat Export Forecast

Beef exports are forecast to increase 2.7%, primarily because of the lower anticipated competition in Asian markets, as beef supplies in Oceania will reflect weather-related herd reduction this year. Broiler export growth is forecast at 2.3% based on expectations of increased demand in low- and middle-income countries, particularly as the global meat and poultry market is pressured by shifting Chinese demand, Haley adds.

A 3% growth is anticipated for turkey exports next year, supported by strength in shipments to Mexico with continued low turkey prices expected to draw additional international purchasers. Lamb and mutton exports are likely to fall as U.S. production trends lower. Export volumes for eggs and egg products are forecast to decrease by 3%, based on expectations of continued softness in foreign demand. Dairy exports are expected to grow 3.3% next year as global demand grows.



Washington County FFA Officers (USD108) accept a check for \$2500 from the Bayer Fund and Bill and Vicki Slater at their annual banquet. The Slaters were selected as winners of Washington County for America’s Farmers Grow Communities. The program offers farmers the chance to direct a \$2500 donation to a nonprofit of their choice. It has awarded more than \$33 million to over 8,000 nonprofits across America in it’s 10 years. Advisor for Washington County FFA is John Kern.

NRCS announces Monarch Butterfly habitat RCPP funding application cutoff for July 26

Karen A. Woodrich, Kansas State Conservationist for the USDA Natural Resources Conservation Service (NRCS), announced funding to help landowners improve restore, manage, and conserve habitat for Monarch butterflies on agricultural and tribal lands. The National Fish and Wildlife Foundation and other partners, have joined NRCS in a Regional Conservation Partnership Program (RCPP) to offer financial assistance to help agricultural producers increase milkweed and Monarch nesting plants on agricultural

land to improve the habitat needs for Monarch butterflies according to Woodrich.

NRCS is providing funding through the Conservation Stewardship Program (CSP). There will be a fiscal year 2019 CSP application evaluation period for this RCPP project. The application evaluation period will be for applications received by July 26, 2019.

Targeted areas where CSP funds will be available for agricultural producers interested in implementing conservation practices include all coun-

ties in Kansas. Funding will go toward conservation improvement practices such as milkweed plantings, pollinator plantings, brush management, prescribed grazing, as well as others.

For more information, go to the Kansas NRCS website www.ks.nrcs.usda.gov/ programs or visit your local U.S. Department of Agriculture Service Center. To find a service center near you, go to offices.usda.gov. USDA is an equal opportunity provider, employer, and lender.

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There's a chance to win the best seats in the house for the annual Coffeyville Summer Celebration.

The Inter-State Fair and Rodeo's Junior Advisory Board (JAB) is selling raffle tickets for the chance to sit in the VIP booth at the arena at Walter Johnson Park, to have the best viewing of the fireworks show.

The winning raffle ticket includes seating for 25 in the south stand, plus appetizers and drinks during the Summer Celebration on July 13.

This is the fourth year for the Celebration, which includes a fun run walk and 5K, car show, poker run and cruise, kids power wheels show and cruise and live music by the Backroads Band and the Retro

Rockers.

Raffle tickets are \$10 each and can be purchased from any JAB board member or through the Coffeyville Chamber of Commerce (620-251-2550). JAB board members include Brittany Monroe, Jack Hill, Kyle Jackson, Nate Osborne, Delaney Pippin, Morgan Rexwinkle, Ani Rexwinkle, Cameron Vail, Harley Rexwinkle

and Kelsey Wall.

Gail Smith, Andy Duncan and Mike Bradley are the organizers for the event, and Bradley loves giving the JAB youth a way to raise money for their scholarship funds. "I'm for the kids," he said. "Anything that has to do with kids, I'm for. And that bunch of kids is the hardest-working bunch of kids I know."

Funds raised by the JAB

go towards scholarships that are awarded at the end of the Inter-State Fair and Rodeo. Last year, five youth were awarded scholarships courtesy of the JAB: Dalton Flatt, Madison Gilman, Lane Kabrey, Caleb Mackie, and Mackenzie White. In the three years the JAB has been in existence, \$4,750 in scholarships has been awarded. Scholarships are given to JAB board mem-

bers.

This year's Inter-State Fair and Rodeo takes place August 13-17 with grandstand entertainment each night.

More information on and tickets for the fair and rodeo can be found by visiting www.fairandrodeo.com or by calling the Coffeyville Chamber of Commerce at 620-251-2550.

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NPPC launches 'Keep America First in Agriculture' campaign

The National Pork Producers Council (NPPC) has launched "Keep America First in Agriculture," a new campaign to highlight the importance of establishing a proper regulatory framework for gene editing in American livestock.

Gene editing technology, which introduces useful genetic variation into food animal breeding programs, promises significant animal health benefits, including a natural immunity to disease and a reduction in the need for antibiotic use.

"Gene editing is a huge step forward for America's farmers, as it offers a powerful new way to combat animal disease," said Dr. Dan Kovich, NPPC's deputy director of Science & Technology. "With gene editing, livestock breeders can knock out specific genes that make animals vulnerable to viral infections. Healthier animals benefit both farmers and consumers," he said.

While countries like Can-

ada, Brazil and Argentina are moving quickly on this advancement to gain competitive advantage in the market, the U.S. is running the risk of falling far behind as a result of a regulatory land grab by the Food and Drug Administration (FDA). Under FDA regulation, gene editing faces an impractical, lengthy and expensive approval process, threatening hundreds of thousands of jobs and nearly six percent of U.S. Gross Domestic Product.

Additionally, the FDA's regulation inaccurately classifies livestock as drugs and farms as drug-manufacturing facilities, creating significant challenges for the international trade in animals and animal products.

The U.S. Department of Agriculture (USDA) is the only agency prepared to effectively regulate this new technology. It already has a review process in place for genetic editing in plants under

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2013 NH T6.165, 2137 hrs	\$75,000
2015 NH Boomer 47, cab, ldr, 39hrs..	\$39,000
1990 Ford 7710, 5421 hrs.....	\$19,600
1979 Ford 7600, 5088 hrs.....	\$9,500
1995 Ford 5610.....	\$19,500
1969 IH 756.....	\$8,500

COMBINES

2014 Case 7230, 2048E, 1385H	\$210,000
2012 Case 5130.....	\$120,000
2018 MacDon FD135, 35'	\$71,000
2013 Case 2162-30'	\$42,000

HAY/IMPLEMENTS/LAWN

2012 Case RB564.....	\$24,500
Vermeer 605K.....	\$6,500
Hesston 8200	\$25,000
2012 NH H6750	\$6,200
NH 492	\$3,900
NH 451	\$1,100
NH HT152	\$9,200
JD 956	CALL
Bush Hog 3710	\$4,900
Landpride RC6015	\$10,000
Landpride RCR2596	\$3,500
Landpride RCR3515	\$5,900
Rhino FR240	\$17,500
2016 Bad Boy Outlaw 6100	\$8,000
2008 Dixie Chopper T3300-60	\$8,000
JD 930R	\$9,500

PLANTERS/TILLAGE/MISC.

2010 Kinze 3600 12R15	\$69,500
2010 Kinze 3600 12R23	\$69,500
2011 Case 1240 16R30	\$59,500
Case 3900	\$18,500
2012 Case 330 34' Turbo	\$36,000
Case 870	\$44,000
Krause 5600	\$8,000
NH 1033	\$6,600
2016 Bobcat T870	\$62,000

**Hours: Mon.-Fri. 8-5;
Sat.: 8-12**



KANSAS AG REPORT





Ken Rahjes, Host



For TV Show times check your local listings or watch at

kansasagreport.net

Nikkel wins Beef Improvement Federation's Roy Wallace Scholarship

The Beef Improvement Federation (BIF) presented a Roy A. Wallace Memorial Scholarship to Taylor Nikkel June 19 during the group's annual meeting and symposium in Brookings, South Dakota. These scholarships were established to encourage young men and women interested in beef improvement to pursue those interests as Wallace did, with dedication and passion.

Taylor Nikkel, Maple Hill, Kansas, is this year's undergraduate winner. She will graduate from Kansas State University (K-State) in May 2020 with a degree in agricultural economics.

During her time at K-State, Nikkel has taken opportunities to learn more about agricultural policy and law. In the fall of 2018, she attended the Agriculture Future of America (AFA) leadership conference,



Benjamin Crites, Lexington, Kentucky, and Taylor Nikkel, Maple Hill, were presented Roy A. Wallace Memorial Scholarships June 19 during the Beef Improvement Federation annual meeting and symposium in Brookings, South Dakota. Pictured with Crites and Nikkel (center) are Norm Vincel (left) and Brian House (far right) of Select Sires Inc.

which helped her connect with peers who had similar interests in pursuing a career path of agricultural policy.

This past semester, Nikkel

interned with the U.S. Senate Committee on Agriculture, Nutrition and Forestry.

"The opportunity was the next step to further exploring

the agricultural policy world," Nikkel says. "I am so grateful to learn from our nation's policy makers."

This summer, Nikkel accepted an opportunity to work with Farm Credit Mid-America as a government and legislative affairs intern. Upon completion of her undergrad degree, she plans to pursue a law degree that will allow her to better analyze and understand legislation that affects the industry.

"My career plan is to stay in the industry and to utilize my knowledge and experience to serve and lobby for America's farmers and ranchers," Nikkel says. "I hope that by continuing to learn and make connections, I will one day be able to help convey their needs and wants to our nation's lawmakers."

The Roy A. Wallace Beef

Improvement Federation (BIF) Memorial Fund was established by Select Sires to honor the life and career of Roy Wallace. Wallace, who worked for Select Sires for 40 years, served as vice president of beef programs and devoted his life to the improvement of beef cattle. He became involved with BIF in its infancy and was the only person to attend all of the first 40 BIF conventions. He loved what BIF stands for — bringing together purebred and commercial cattle breeders, academia and breed associations, all committed to improving beef cattle.

Wallace was honored with both the BIF Pioneer Award and BIF Continuing Service Award, and he co-authored the BIF 25-year history, Ideas into Action. Two \$1,250 scholarships are awarded each year,

one to an undergraduate and the other to a graduate student. Criteria for selection include a demonstrated commitment and service to the beef cattle industry and a passion for the areas of beef breeding, genetics and reproduction, academic performance, and personal character.

More than 500 beef producers, academia and industry representatives attended the organization's 51st annual convention. BIF's mission is to help improve the industry by promoting greater acceptance of beef cattle performance evaluation.

For more information about this year's symposium, including additional award winners and coverage of the meeting and tours, visit BIFconference.com. For more information about BIF, visit Beefimprovement.org.

American Farmland Trust launches the 11th annual Farmers Market Celebration across America

American Farmland Trust, the organization behind the national movement No Farms No Food®, announces the launch of its eleventh annual Farmers Market Celebration, which runs through Sept. 23.

The celebration is a national effort to promote the importance of local food and the role that agriculture plays in our communities, while also raising awareness about the challenges facing America's

farmland and farmers.

"There is no better way to celebrate the people that feed us than by supporting your local farmers' market. Since 2008, every summer, AFT has highlighted farmers and Amer-

icans eating healthy, locally grown foods to call attention to the important role that farmers' markets play in communities across the nation," says Alex Johnson, AFT member coordinator.

He continues, "The Farmers Market Celebration encourages market-goers, farmers and anyone else who believes in the power of local food to endorse their favorite market. At the end of the celebration, AFT will present awards to the top markets in each region of the country. AFT will also recognize a national "People's Choice" winner from the top regional markets."

AFT's 2012 "Farming on

the Edge" analysis showed the food we eat is often produced closest to urban communities — 81% of food sold directly to consumers (based on market value) comes from farms adjacent to metropolitan areas and small cities. Unfortunately, the land on which it is produced is the land most under pressure from development. To protect our society's access to local food, AFT works to save the land that sustain us by protecting farmland, promoting sound farming practices and keeping farmers on the land.

As part of the celebration, AFT will showcase winning markets from past years and stories from patrons and farm-

ers. Market-goers can use #OnMyFork on social media to share experiences from their local market and bolster its chances of winning "People's Choice." All summer long the celebration will highlight the importance of patronizing local farmers and ranchers and enjoying the freshness, nutritional value and flavor of local food. Join the conversation on AFT's social channels—Facebook, Twitter and Instagram!

To vote, post and share stories from your local farmers' market, visit markets.farmland.org. The celebration, which began June 27, closes on Sept. 23, 2019, at midnight Eastern time.

Mexico becomes first country to ratify USMCA

On Wednesday, June 19 the Mexican Senate passed the United States-Mexico-Canada Agreement, becoming the first country to ratify the new trade agreement.

In a statement, U.S. House Ways and Means Commit-

tee Ranking Member Kevin Brady (R-The Woodlands) praised Mexico and reiterated Congress' need for swift action.

"Today's action, combined with passage of Mexico's landmark labor legislation earlier this spring, demonstrates Mexico's solid commitment to serious reform and tough new rules to create fairer trade.

Now it's time for the U.S. Congress to pass USMCA as soon as possible to unlock the benefits of this agreement for U.S. workers and our local businesses. The longer Congress delays, the more our country loses out on new jobs, more customers for Made-in-America goods, and a stronger economy," Brady said.

AUCTION

SATURDAY, JULY 13, 2019 — 1:00 PM

Auction will be held in Kenwood Hall at the Saline Co. Expo 900 Greeley in SALINA, KS

ANTIQUES & COLLECTIBLES

2 Oak step back cupboards; 2 oak drop front desk; oak parlor table; 2 oak commodes; oak dresser; iron bed; library table; Howard Miller clock; wicker blanket chest & 2 tables; several camel & flat top trunks; night stand; curio cabinet; Jenny Lind baby bed; bridge lamp; assortment pictures inc: Maleta Forsberg; BB guns; child's rocker; school desk; assortment crocks inc: bowls, pitchers, jars; Persian rugs; wooden bowl; cast iron pieces; Raymar limited prints; Sunbeam door push; copper

NOTE: We have combined 4 estates, there are many nice antiques and a good collection of tools. Check our website at www.thummelauction.com for pictures.

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rooster weather vane; Waterberry clock; 10 sets silverware; Lladro & other figurines; brass lamp; oil lamps; quilts; assortment linens & fancy work; bed spread; buttons; Christmas decorations; clock shelf; sewing items; German china pieces; Iris pitcher & glasses; pink Depression ice buckets; cookie cutters; brass master water meter; Fisher Price circus wagon; assortment toys; dolls; games; copper boiler; wood barrel; wood orange crates; wood pop cases; printer drawer; typewriters; sled; bicycles; flags; pens; fishing

items; wood churn; wash tub; pitcher pump; well pump; cast iron kettle & pots; assortment tools; assortment of other collectibles.

TOOLS

Craftsman tools: 5hp air compressor; 10" table saw; 12" band saw; router w/table; spindle sander; 3 hp compound miter; 4" belt 6" disc sander; brad stapler; Dewalt chop saw; Delta jig saw; **Duracraft** drill press, 12" wood lathe; lathe tools; grinder on stand; 3" vise; aluminum extension ladder; other hand tools; work bench; CH pressure washer; air bubble.

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JC LIVESTOCK SALES INC.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

NO SALE HELD JUNE 26th, 2019

NEXT SALE:
Wed., July 10th



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CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

A SALE WAS HELD TUESDAY, JUNE 25TH.
CONTACT THE BARN FOR RESULTS.

Tues., July 2nd - NO SALE

Sat., July 6th - Sheep & Goat Sale

Tues., July 9th - Cattle Sale



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Date: 6/26/19. COWS: \$65-\$78.00; \$52-\$64.75; \$51 & down. BULLS: \$85-\$90.00

BULLCALVES	7 blk.....701@128.00
2 mix.....543@127.00	9 bkbwf.....938@111.50
HEIFERS	7 blk.....1001@108.50
2 blk.....390@146.00	STEERS
2 blk.....313@139.00	5 blk.....403@172.00
4 mix.....455@138.00	5 red431@111.00
2 blk.....458@134.00	3 blk.....530@155.00
2 red420@105.00	11 blk.....604@149.50
2 blk.....530@147.00	4 mix.....653@143.00
13 blk.....593@143.00	29 blk.....679@142.50
2 blk.....575@135.00	11 mix.....748@137.00
4 mix.....573@133.00	8 blk.....779@135.50
5 mix.....558@112.00	2 Char.....780@133.00
7 blk.....629@135.00	

NO SALE JULY 3rd DUE TO HOLIDAY! NEXT SALE JULY 10th

CONSIGNMENTS FOR JULY 17

• 102 mix strs, 800-850 lbs.

CONSIGNMENTS FOR JULY 24

• 285 mix hfrs, 775-850 lbs.
• 320 blk & Char hfrs, 800-875 lbs.
• 285 blk strs, 850-925 lbs.



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To see more consignments go to: emporialivestock.com

Be on guard for horn flies and other parasites in cattle

By Jody G. Holthaus, District Extension Agent, Livestock and Natural Resources

With a lot of moisture and warm weather, the flies are coming on fast.

Horn flies are small in size and are usually found on the backs, sides and poll area of cattle. During a warm summer afternoon, they can be found on the belly region of cattle. Horn flies, both male and females, acquire more than 30 blood meals per day After mating the female fly will leave the animal to deposit eggs in fresh cattle manure. Eggs hatch within one week, and larvae feed and mature in the manure, pupating in the soil beneath the manure pat. Newly emerged horn flies can travel several miles searching for a host. The entire life cycle can be completed in ten to 20 days depending upon the weather.

Economic losses associated with horn flies are estimated at more than \$1 billion dollars annually in the United States. Horn fly feeding causes irritation, blood loss, decreased grazing efficacy, reduced weight gains, and diminished milk production in mother cows. Additionally, horn flies have been implicat-

ed in the spread of summer mastitis.

Studies conducted in the U.S. and Canada have shown that horn flies can cause weight gain loss in cattle, and calf weaning weights can be negatively impacted from four to 15 percent. Studies conducted in Nebraska have established calf weaning weights were ten to 20 pounds higher when horn flies were controlled on mother cows. The economic injury level (EIL) for horn flies is 200 flies per animal. Yearling cattle can also be affected by the horn fly; other studies have shown yearling weights can be reduced by as much as 18 percent.

There are many insecticide control methods available to manage horn fly numbers; backrubbers, dust bags, insecticidal ear tags and strips, pour-on, oral larvicides, low-pressure sprayers, mist blower sprayers, and the Vet Gun™.

Backrubbers and dust bags are an effective way to reduce horn fly numbers if cattle are forced to use them.

Insecticide ear tags and strips are a convenient method of horn fly control. However, many horns fly populations in Nebraska exhibit a degree resistance to the pyrethroid

class of insecticides. The recommended management practice to maintain horn fly control is to rotate insecticide classes.

Animal sprays and pour-on products will provide seven to 21 days of control and will need to be reapplied throughout the fly season.

Oral larvicides prevent fly larvae from developing into adults. An important factor when using an oral larvicide is insuring steady consumption. An additional complicating issue using an oral larvicide is horn fly migration from neighboring untreated herds which can mask the effectiveness of an oral larvicide.

The Vet Gun™ applies an individual capsule of insecticide to an animal and can provide control between 21 and 35 days.

Face Flies: Face fly adults closely resemble house flies except they are slightly larger and darker than the house fly. The face fly is a non-biting fly that feeds on animal secretions, nectar and dung liquids.

Face flies are present throughout the summer but populations usually peak in late July and August. Face flies are most numerous along waterways, areas with abundant rainfall, canyon floors

with trees and shaded vegetation, and on irrigated pastures. Female face fly feeding causes damage to eye tissues, increases susceptibility to eye pathogens, and vector Moraxella bovis, the causal agent of pinkeye or infectious bovine keratoconjunctivitis. Pinkeye is a highly contagious inflammation of the cornea and conjunctiva of cattle. If coupled with the infectious bovine rhinotracheitis (IBR) virus, M. bovis can cause a much more severe inflammatory condition. Controlling face flies is essential in reducing most pinkeye problems.

Achieving adequate face fly control can be difficult because of their habit of feeding around the face and the significant time they spend off the animal. Control is maximized when the cattle receive daily insecticide applications by either dust bags, oilers, sprays, or an insecticide impregnated ear tag/strip. Ear tags/strips should be applied at the label recommended rate. Both cows and calves must be treated if control is to be achieved.

Pinkeye vaccines are available and should be considered if face flies and pinkeye have been a recurring problem. Currently, commercial and autogenous pinkeye vaccines

are available; please check with your local veterinarian about the use of these products in your area.

Stable flies are serious pests of feedlots and dairies and of pasture cattle. The stable fly is a blood feeder, mainly feeding on the front legs of cattle, staying on the animal long enough to complete a blood meal. Their bites are very painful; cattle will often react by stomping their legs, bunching at pasture corners, or stand in water to avoid being bitten.

The female stable fly deposits eggs in spoiled or fermenting organic matter mixed with animal manure, soil, and moisture. The most common developing sites are in feedlots or dairy lots, usually around feed bunks, along the edges of feeding aprons, under fences, and along with stacks of hay, alfalfa, and straw. Grass clippings and poorly managed compost piles also may be stable fly developing sites. Winter hay feeding sites where hay rings are used can often be a source for larval development through the summer if

the proper moisture is present.

Stable flies cause similar weight gain losses to both pasture and confinement cattle. University of Nebraska research recorded a reduction in average daily gain of 0.44 lbs. per head with animals which received no insecticide treatment compared to animals which received a treatment. The economic threshold of five flies per leg is often exceeded in Kansas pastures.

The only adult management option available for the control of stable flies on range cattle is the use of animal sprays. Sprays can be applied using a low-pressure sprayer or can be applied with a mist blower sprayer. Weekly applications of these products will be required to achieve a reduction in fly numbers.

Sanitation or clean-up of wasted feed at winter feeding sites may reduce localized fly development. If sanitation is not possible these sites may be treated with a larvicide (Neporex®). But, the application of either procedure may not totally reduce the economic impact of stable fly feeding.





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www.centrallivestockks.com

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Hog/Sheep/Goat Auction- Every 3rd Saturday
Horse/Tack Auction- Every 1st Saturday

Sat., July 6th - Horse & Tack Sale
Tues., July 9th - Hay & Cattle Sale
Sat., July 20th - Hog/Sheep/Goat Sale

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WEDNESDAY, JULY 17 • 5:00 PM

- 170 Blk-Red Bred Cows, Fall Herd Dispersal, 5-7 Yr Old w/20 broken Mouth, Calve Aug & Sept, Bred Holman & Laflin Blk Ang & U of N Red Ang, Vacc Vira Shield VL5HB & Poured
- 25 Blk-Red Bred Cows, 5-6 Yr Old, Bred Blk Linetics Blk Ang or Rippe Blk Balancer, Calve Late July-August, Poured Late April
- 6 Blk Bred Cows, 3-5 Yr Old, Bred Blk, Calve Sept.
- 25 Red Bred Cows, 4-6 Yr Old, Calve Aug 1 - Sept. 1, Bred Shuey Red Ang & Laflin Black Ang, Poured

FOR CONSIGNMENTS GO TO: WWW.BEATRICE77.NET

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Like Us On Facebook!
On Thursday, June 27 we had 723 head of cattle on an active market.

STEERS	3 blk	798@131.00	4 bkbwif	646@133.00
3 blk	495@155.00	3 blk	938@120.00	10 bwfrbf 621@131.50
8 blk	617@149.00	18bkChr1113@115.50	4 bwfrbf	623@130.00
9 blk	596@147.50	4 bkred 1193@114.00	5 blk	687@127.00
12 blk	685@146.50	HEIFERS	6 bkbwif	703@127.00
8 bwfrbf	708@146.00	5 blk	406@143.00	6 wfred 983@94.00
12 bwfrbf	624@146.00	5 bkbwif	444@138.00	3 wf 1125@82.00
20 blk	662@145.50	6 blk	561@135.00	

Butcher Cows: \$40-\$75.50, mostly \$55-\$70.00, \$2-\$3 lower.
Butcher Bulls: \$56-\$93.00, mostly \$78-\$88.00, \$2-\$3 lower.
Butcher cows & bulls \$2-\$3 lower but selling very active with over 425 head sold.

BUTCHER COWS		BUTCHER BULLS	
1 blk	1435@75.50	1 Char	1720@93.00
1 blk	1750@75.50	1 blk	1745@92.00
1 blk	1545@74.50	1 blk	1770@91.50
1 blk	1480@74.00	1 blk	1640@89.00
1 blk	1525@74.00	1 blk	1700@88.00
1 bwf	1615@73.00	1 blk	1845@88.00
2 bk Red	1500@72.50	1 Char	2275@87.00
2 bk bwf	1495@71.50		

NO SALE JULY 4

EARLY CONSIGNMENTS FOR JULY 11
• 225 mostly blk hfrs, 775-875 lbs, open, off the grass.
• 125 Red Char strs, 875-950 lbs, open, off the grass.
• 50 blk bwf strs & hfrs, 500-750 lbs, off the cow.
• 20 blk bwf Fall calving cows, 5-8 yrs old. Bred to Angus bull.

We appreciate your business!

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If you have any cattle to be looked at call Ron or Austin

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We Were CLOSED JUNE 27th & WILL BE CLOSED JULY 4 *Enjoy Your Holiday ...*
We do have a GOOD RUN planned for July 11!

EARLY CONSIGNMENTS FOR THURSDAY, JULY 11: EXPECTING 1,200-1,500 HEAD
• 4 loads blk Northern steers, off brome, 850 lbs.
• 5 loads mostly blk steers, off brome, 900 lbs.
• 4 loads mostly black steers, off brome, 850 lbs.

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

Check our website & Facebook for updated consignments: www.eldoradolivestock.com
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Cattle Sale Every Thursday 11:00 AM

Holton Livestock Exchange, Inc.
1/2 mile East of Holton, KS on 16 Highway
Livestock Auction every Tuesday at 12 NOON
Serving the Midwest Livestock Industry for 67 Years!
******STARTING TIME: 12:00 NOON******

MARKET REPORT FOR TUESDAY, JUNE 25, 2019		
RECEIPTS: 976 CATTLE		
VIEW FULL RESULTS ON OUR WEBSITE.		
STEERS	3 blk strs	768@129.50
4 blk bwf strs	182 mix strs	1038@113.25
4 blk strs		
3 blk strs		
3 blk males		
7 blk bwf strs		
9 blk strs		
4 blk red strs		
10 blk strs		
5 blk char strs		
6 blk strs		
5 blk strs		
10 blk bwf strs		
6 blk char strs		
4 blk bwf strs		
14 blk bwf strs		
120 blk strs		
4 blk strs		
6 blk strs		
66 blk strs		
	3 blk hfrs	768@129.50
	2 blk hfrs	447@150.00
	3 blk bwf hfrs	470@149.00
	2 blk bwf hfrs	537@147.00
	3 blk hfrs	533@144.50
	2 blk hfrs	517@144.00
	3 blk bwf hfrs	625@140.00
	2 blk hfrs	562@139.00
	5 blk bwf hfrs	517@139.00
	3 blk bbf hfrs	566@138.50
	2 blk hfrs	555@133.00
	11 blk hfrs	494@129.75
	11 blk hfrs	636@128.00
	9 blk hfrs	680@128.00
	6 blk bwf hfrs	635@127.00
	3 blk bwf hfrs	650@126.00

CLOSED! JULY 2 • NO AUCTION!

NE KANSAS ABSOLUTE REAL ESTATE & PERSONAL PROPERTY AUCTION: LIVESTOCK STARTING & GROWING FACILITY SATURDAY, JULY 13 STARTING AT 11 AM, VALLEY FALLS, KS
4 TRACTS OF REAL ESTATE SELLING TO THE HIGHEST BIDDER
KELLY & KIM KIRKHAM, sellers

HARRIS REAL ESTATE & AUCTIONS, LLC, HOLTON, KS
DAN HARRIS, BROKER & AUCTIONEER 785-364-7137
See website for complete details & pics: www.holtonlivestock.com

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Nitrogen: a farmer's analysis in soil nitrogen chemistry

By James Coover, Crop Production Agent, Wildcat Extension District

In previous articles we have talked about (P) Phosphorus, we have talked about (K) Potassium, but now we continue on this journey to talk about the big one, (N) Nitrogen. This is good timing because nitrogen losses in corn production are currently a very relevant topic. However, like in the previous P and K articles, this one is going to be about nutrient chemistry and increase nutrient understanding, rather than just a current issue in agronomy. Nitrogen is by far the most applied, the most necessary, and it also the most difficult to quantify. The reason for its elusiveness is because it is mobile within the soil, it's always changing forms, and can have gaseous losses (unlike P or K). To really get a handle on what is currently happening with nitrogen in the corn fields, right now we need to understand all the pieces as play.

Nitrogen Forms
Ag producers know the forms of nitrogen, but should be covered just for completeness. Atmospheric nitrogen,

N₂, is where it all starts and where it all ends up. It's highly stable so it takes microbes or human vast quantities of energy to convert it into a usable form. This form is usually ammonia or ammonium, neither of which is absorbable by plants in meaningful quantities. Microbes convert ammonium into nitrate, NO₃, which requires oxygen. This is called nitrification. In waterlogged soil where microbes can't get to oxygen, they use nitrate to breathe instead, converting NO₃ to N₂O or N₂ which are both gases that leave the soil. This is called denitrification. It is important to note that denitrification (NO₃ → N₂) is not the opposite of nitrification (NH₄ → NO₃). Also the process of nitrification leaves the hydrogen behind, which is why nitrogen fertilizer acidifies the soil.

Fertilizer Types

Unlike every other nutrient, fertilizer type is an important part of understanding nitrogen because it all behaves differently in the soil. The most common types of nitrogen fertilizer are anhydrous ammonia, urea, UAN (urea ammonium nitrate), and the DA part of DAP (Di-Ammonium

Phosphate). Anhydrous ammonia chemical formula is NH₃. Note that ammonium is NH₄ and ammonia is NH₃ but this transition from NH₃ to NH₄ is fairly quick, taking a couple of weeks at most and doesn't require microbes. However before that happens, the NH₃ is a toxic gas that suppresses microbes and kills crop seeds. Urea's chemical formula is complex, CH₄N₂O, but no need to worry because microbes convert it into ammonium. UAN is a mix of urea, ammonium and nitrate. The nitrate part is an important distinction because it's already in the usable, a potentially losable, nitrate form. N-serve, encapsulation or other forms of nitrification inhibitors work by slowing down the microbes from converting ammonium into nitrate.

Nitrogen In the Soil

Each form of nitrogen moves differently in the soil. The ammonia in anhydrous is a gas but easily dissolves in water. This is why the application conditions when it is applied is important because if it can escape the knife without touching the water in soil, it's gone. Ammonium is a cation

that adsorbs onto soil surfaces, which is why is mostly immobile in the soil. Only nitrate, being an anion, moves with the water it is dissolved in.

Nitrification and Denitrification

Both nitrification and denitrification requires certain conditions to be present for microbes to perform their processes. Like previous mentioned, nitrification requires oxygen, but the process is sped up with warm temperatures, reaching an optimum at 75 to 80 degrees F and somewhat slowed down in acidic soils below 6.5 pH. At the point of anhydrous injection, the microbes are suppressed for a while, which also slows down nitrification. In a way, anhydrous is its own nitrification inhibitor. Denitrification also speeds up in warm temperatures, but requires a lack of oxygen. Except when the soils are frozen or extremely dry, there is always some nitrification and denitrification happening and often at the same time.

The Current Nitrogen Situation

The importance of the current situation is that while

our soils have been incredibly waterlogged for weeks, which would normally have huge denitrification losses, the ammonium fertilizers will have stayed safe because the microbes never got the oxygen they needed to convert it into nitrate. It is hard to determine how much fertilizer we have lost due to denitrification. It is likely a large portion of the nitrates have been denitrified but only 25% or less ammonia has converted to nitrate. Higher parts of the fields could have received more oxygen but were also less waterlogged. It is likely that nitrogen levels, both ammonium and nitrates, are very uneven throughout a field. It is hard to soil test for nitrogen during a growing season because much of it is "hiding" on soil surfaces and in different forms. Also, normal nitrogen soil test will only test for nitrate. The ammonium soil test is a separate, additional soil test add on. Corn only needs small amounts of nitrates during its early vegetative stages but then increases dramatically, shortly before tasseling. Young corn that was yellow this year was because of "wet feet" roots that couldn't

get to the available nitrogen, which is why it is greened up when the soils dried out. I personally suspect that before it is all done we will have a fairly high denitrification year. It is difficult to tell if corn will need a top-dressed application. If you suspect it will need it, or want to play it safe anyways, 30 to 50 lbs N per acre can be side dribbled anytime in the few weeks before tasseling. Ideally, leave a strip or two of the field without top-dressed application and another where it is doubled as check strips. This only gives you an answer after the fact so it is more of a learning observation thing.

This detailed focus on the soil chemistry of nitrogen is intended to give a whole picture view about what is going on in the field, rather than just fertilizer rate prescriptions. If you have any questions about top dressing nitrogen on corn or other crop fertility questions, please give me a call.

For more information, please contact James Coover, Crop Production Agent, jcoover@ksu.edu or (620) 724-8233.

Master Gardener classes to begin in September

Gardeners with a passion for learning can sharpen their horticultural skills by signing up for the Wildcat Extension District's Master Gardener program. Classes begin September 20, 2019 at the Southeast Kansas Area Extension and Research Center in Parsons.

Master Gardener basic training is a comprehensive

series of gardening-related classes presented by K-State specialists and local Extension agents. Class topics include botany, vegetable and fruit gardening, insect and disease issues, annual and perennial flowers, woody plants, and more. Classes in the Wildcat District are held during the day on Fridays from 9 a.m. to 4 p.m.

The Extension Master Gardener program is a volunteer training program in which K-State Research and Extension "trades" classroom training for and equal amount of volunteer time. The purpose of the Extension Master Gardener program is to provide trained volunteers who are willing to assist with educational programs and activities supported by the county Extension Councils, Extension Districts and K-State Research and Extension.

All participants in the Wildcat Extension District's Master Gardener program must have graduated from high school or have a GED, and must submit to the District's 4-H volunteer background screening. Please contact Jacob Weber for complete information about this program; applications must be received by September 6, 2019.

Wildcat District Offices: Altamont, (620) 784-5337; Girard, (620) 724-8233; Independence, (620) 231-2690; Fredonia, (620) 378-2167.

For more information, contact jweber@ksu.edu, Horticulture Agent, jweber@ksu.edu, (620)724-8233

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