



Yard & Garden Tips

By Gregg Eyestone

Join Other Gardeners in Learning

On September 1, the 29th class of new Riley County, K-State Research and Extension Master Gardeners will begin. Over 300 community members have taken the course. Currently, 50 members reach out and teach the joys and advantages of gardening to their neighbors.

Sign up today to become one of these gardening enthusiasts. You can do that by going to our website at www.riley.ksu.edu. Applications are available at the Extension office which is on

the second floor of the Riley County Office Building, 110 Courthouse Plaza. The cost is \$100 for the handbook and 8 days of instruction.

New for this year's training is meeting on Thursdays. The previous training have always been on Friday. Moving to Thursdays allows for multi-units training together by technology. Often, we will be on the K-State campus with the presenter teaching to us and others over the internet.

Giving back is the best part of the program. One of

the earliest projects started by the first class is the annual garden tour. There were 332 ticketholders viewing the five private landscapes showcased. Proceeds support the Gardens at Kansas State University and local gardening education.

Butterfly garden habitat is a passion for many gardeners. The Master Gardeners continue to care for their demonstration garden at the Sunset Zoo. It provides a living demonstration all year. Earth Day is a special event where the gardeners grow and give out butterfly milkweed and other butterfly loving plants and information.

Flowers that are identified as having exceptional growth in Kansas are given the title "Prairie Star." These K-State researched flowers are planted by the Master Gardeners around the courthouse plaza for viewing. Each spring, 30 to 40 varieties are given out to Master Gardener units across the state for regional evaluation.

Please consider joining in on the fun of being a local volunteer with the Master Gardener program. Your yard and neighbors will thank you.

You can find out more information on this and other horticulture topics by going to the Riley County, K-State Research and Extension website at www.riley.ksu.edu. Gregg may be contacted by calling 785-537-6350 or stopping by 110 Courthouse Plaza in Manhattan or e-mail: geyeston@ksu.edu.

Exceptions to the rule

By Larry Corah, for Certified Angus Beef LLC

A number of years ago, noted meat scientist Dell Allen asked a great question: if we produce more Premium Choice beef, will it become "commodity" and no longer generate price premiums?

Today, with great improvements in quality grade, many producers are now posing the same question.

Many of us took Economics 101, where the instructor early in the course drew a supply/demand figure explaining how prices are established.

More of any commodity drives prices lower while less supply moves them higher. Certainly great examples of the latter would be the drought of 2007 driving corn prices up and the cow herd liquidation driving cattle prices higher in 2014. So we do know this supply/demand concept works.

But are we producing too much Choice and Premium Choice beef today? Let's look at some numbers.

Former colleague and current CattleFax analyst Lance Zimmerman shared this historical perspective recently. Although cattle are grading well today (70% Choice and Prime), that seems to pale in comparison to 1987 when an amazing 97% graded Choice and Prime. It should be noted that not all fed cattle were graded in the 1970s and '80s, so many that would have been Select were called "no rolls." From that year to 2005, quality grade hit a skid

and reached 57.2% Choice.

Of course, that's not necessarily the whole story, because we sell pounds, not percentages. In 1977, the U.S. sold 12.9 billion pounds of Choice and Prime beef, a high mark that stood until the 13.1 billion pounds of 2002. Since then, with the exception of 2012, the number has grown, peaking at 14.1 billion pounds in 2015.

With reduced cattle numbers, how could that happen? Simple answer: besides the run-up in quality grade, we've seen huge increases in carcass weights.

Regardless of percentages in the grading mix, we are producing the greatest amount of Choice and Prime beef in our history.

But as the legendary Paul Harvey always said, "Now to the Rest of the Story" and the things you likely did not know about beef supply and demand.

According to the old basic theory, all the extra high-quality beef being produced should mean premiums for hitting those targets are pretty poor. Well, anything but that is happening in 2016.

Urner Barry grading data on the price of boxed beef leaving the packing plants shows some rather amazing numbers. The Choice-Select spread has averaged, year-to-date, around \$9.50—but another number gaining value is the Premium Choice (Certified Angus Beef® brand) over Choice spread, which has averaged \$15 YTD. Put another way, the spread from Premium Choice to Select is \$24.50, which on a 900-lb. carcass is

an amazing \$220 each. Clearly, the consumer is telling us they want more and will pay more for quality.

Besides dollars per cwt., another way of looking at this is total dollars. Steve Suther, CAB director of Industry Information, bi-annually gathers data on premiums paid by packers for CAB and Prime. In 2015, that number was a record \$51.8 million dollars in grid premiums for quality. Yes, this gets all the way to the sale barn as black-hided and high-percentage Angus calves continue to bring premiums over all others in the ring.

Since the consumer is the source of all dollars in our industry, it follows that this entire chain of premium-dollar events comes from their willingness to pay for the right eating experience. Part of that certainly relates to quality, as Urner Barry data has CAB cutout averaging \$2.25/lb. compared to \$2.08/lb. for Choice.

Besides that, consumers clearly prefer beef as their protein choice, even as its price has risen.

Staff at Oklahoma State University publish a very useful monthly Food Demand Survey. Data from that report showed that in July 2016, consumers were paying \$9.05/lb. for steak as compared to \$7.12/lb. in that month of 2015, or 27% more. Comparable data for chicken breast showed \$5.31/lb. in 2016 compared to \$5.03/lb. in 2015, or 5.5% more. I'd rather be in the beef business.

NASS releases farm real estate values and cash rent rates

Kansas's farm real estate value, a measurement of the value of all land and buildings on farms, decreased from 2015, according to USDA's National Agricultural Statistics Service. Farm real estate value for 2016 averaged \$1,880 per acre. This is down \$150 per acre or 7 percent lower than last year.

Cropland value decreased 7 percent from last year to \$2,050 per acre. Dryland cropland value averaged \$1,940 per acre, down \$150 from last year. Irrigated cropland value averaged \$3,000 per acre, down \$270 from a year ago. Pastureland, at \$1,290 per acre, decreased \$100 from a year ago.

Cash rents paid to landlords in 2016 for cropland were mixed from last year. Irrigated cropland rent averaged \$129 per acre, an increase of \$5. Dryland cropland rent averaged \$56 per acre, down \$2 from a year earlier. Pasture rented for cash averaged \$19 per acre, down \$1 from the previous year.

County level averages of 2016 cash rents paid to landlords will be released on September 9, 2016 and will be available through NASS Quick Stats located at <http://quickstats.nass.usda.gov/>.

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For our sale Friday, Aug. 5, not many light cattle were offered however they were in good demand. Heavy unweaned fall calves and weaned yearlings were mostly selling \$5 to spots \$10 higher especially on the weaned cattle. Cull cows and bulls sold at fully steady prices.

FEEDER STEERS — 550-975 LBS.

Council Grove	4 xbred	587@166.00
Manhattan	15 xbred	555@165.00
Westmoreland	4 xbred	591@165.00
Havensville	3 blk	551@164.50
Baldwin City	3 xbred	626@163.00
Havensville	17 blk	726@162.50
Scranton	20 xbred	711@160.75
Scranton	17 xbred	620@160.25
Manhattan	8 blk	665@159.00
Alma	5 xbred	598@159.00
Havensville	5 blk	673@159.00
Baldwin City	11 xbred	729@159.00
Westmoreland	4 bwf	696@155.50
Berryton	3 blk	618@155.00
Berryton	8 blk	749@154.75
Whiting	62 blk	834@153.85
Green	3 xbred	700@149.00
Oskaloosa	3 xbred	571@146.00
Council Grove	3 bwf	771@143.00
Alma	14 bwf	837@142.25

Frankfort	34 Hereford	931@137.75
Berryton	14 blk	896@133.10
Council Grove	10 bwf	955@132.00

HEIFER CALVES — 475-550 LBS.

Havensville	3 bwf	488@166.00
Manhattan	10 xbred	485@158.50
Alma	3 xbred	535@155.00
Oskaloosa	5 xbred	546@147.00

FEEDER HEIFERS — 550-875 LBS.

Manhattan	7 blk	575@154.00
Alta Vista	6 blk	616@153.50
Havensville	4 blk	633@153.00
Baldwin City	10 xbred	611@153.00
Berryton	3 blk	596@149.00
Alma	8 bwf	688@148.50
Berryton	6 blk	710@140.25
Alma	4 xbred	692@139.00
Council Grove	3 xbred	708@138.00
Alma	5 xbred	785@134.50
Council Grove	4 blk	733@134.50
Berryton	19 blk	818@128.35
Council Grove	10 bwf	861@126.75

COWS & HEIFERETTES — 1,075-1,675 LBS.

Clay Center	1 blk	1075@108.50
Clay Center	1 blk	1240@104.00
Frankfort	1 xbred	1120@96.00
Manhattan	1 blk	1070@95.00
Riley	1 blk	1175@89.00
Clay Center	1 xbred	1240@88.00
Council Grove	1 blk	1095@87.50

Riley 1 blk 1170@84.50
Riley 1 bwf 1260@83.00
Riley 1 xbred 1355@82.50
Frankfort 1 xbred 1260@82.50
Westmoreland 1 char 1165@82.00
Riley 1 blk 1310@82.00
Council Grove 1 xbred 1235@81.00
Goff 1 blk 1655@80.00
Goff 1 blk 1210@79.50
Riley 1 xbred 1300@78.50
Frankfort 1 xbred 1305@78.50

Manhattan	1 blk	1255@78.00
Riley	1 blk	1110@78.00
Wheaton	1 blk	1495@78.00
Wheaton	1 bwf	1525@76.00
Frankfort	1 xbred	1225@72.00

BULLS — 1,350-2,400 LBS.

Frankfort	1 blk	1785@103.00
Council Grove	1 xbred	1365@102.50
Alma	1 blk	1880@101.00
Blue Rapids	1 xbred	2400@98.00

CONSIGNMENTS FOR AUG. 12:
100 blk, bwf & wf str & hfrs, 600-800 lbs.

65 blk Angus & Red Angus str & hfrs, longtime weaned, 2 rds shots, 500-750 lbs.

55 blk & blk X str & hfrs, weaned 40 days, 550-800 lbs.

50 blk & bwf str & hfrs, longtime weaned, all shots, 650-800 lbs.

35 blk, bwf & rwf str & hfrs, 2 rds shots, 650-800 lbs.

30 blk str, 45 days weaned, 2 rds shots, 600-800 lbs.

10 blk str & hfrs, 1 rd shots, 500-600 lbs.

CONSIGNMENTS FOR AUG. 19:
50 Choice Reputation blk & bwf str & hfrs, no implants on hfrs, 2 rds shots, 600-700 lbs.

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Kansas Hay Market Report

Hay trade activity slow. Demand light for all classes of hay. Prices generally steady. Hot and humid weather returned last week with temperatures in the high 90s and heat index values from 100 to 105. Prairie hay cutting and baling should be very active this week. According to the U.S. Drought Monitor the abnormally dry category increased to 6.47 pct primarily in the northwest-north central counties. Six southeastern counties remain in the abnormally dry category as well. The NASS Kansas Crop Progress and Condition report for the week ending July 31, 2016 has alfalfa hay conditions at 1 pct Very Poor, 5 pct Poor, 31 pct Fair, 58 pct Good, and 5 pct Excellent. Alfalfa hay third cutting was 57 pct complete, ahead of 51 pct last year and 47 pct average. If you have hay for sale, pasture to rent or need hay and/or grazing, use the services of the Hay and Pasture Exchange: www.kfb.org/commodities/haypasture/index.html

Southwest Kansas

Dairy alfalfa, alfalfa ground and delivered, grinding alfalfa steady, movement slow. Alfalfa: Horse, small squares 220.00-250.00, new crop, mid and large squares 135.00-145.00. Dairy, .75-.85/point RFV, Supreme 130.00-160.00, Premium

120.00-155.00, Good 105.00-145.00. Stock or Dry Cow alfalfa, old crop 80.00-100.00. An instance of new crop, mid squares, 140.00. Fair/Good grinding alfalfa, 65.00-80.00. Ground and delivered locally to feedlots and dairies, 100.00-120.00, mostly 100.00-105.00. The week of 7/24-7/30, 9,155T of grinding alfalfa and 300T of dairy alfalfa were delivered. Corn stalks, ground and delivered 80.00-85.00. Straw, mid squares, 50.00-55.00.

South Central Kansas

Dairy alfalfa, alfalfa ground and delivered, grinding alfalfa, alfalfa pellets, steady, movement slow. Alfalfa: Dairy, .70-.85/point RFV, Supreme 130.00-155.00, Premium 120.00-155.00, Good 100.00-145.00. Stock cow alfalfa, 100.00-120.00. Fair/Good grinding alfalfa 60.00-75.00, 50.00-60.00 edge of the field. Ground and delivered locally to feedlots 100.00-115.00, mostly 100.00-105.00. The week of 7/24-7/30, 4,937T of grinding alfalfa and 995T of dairy alfalfa were delivered. Alfalfa pellets: Sun Cured 15 pct protein 140.00-145.00, 17 pct protein 150.00-160.00, Dehydrated 17 pct 220.00-230.00. Grass hay: bluestem, mid and large squares none reported, large rounds 65.00-70.00. Corn stalks, ground and delivered 55.00-65.00. Oat hay, large rounds 65.00-70.00. Straw, large rounds, 50.00-60.00.

Southeast Kansas

Alfalfa, brome steady, movement slow. Prairie hay, up slightly, movement slow to moderate. Alfalfa: Horse or Goat, mid squares 250.00-265.00, small squares 265.00. Dairy and Stock Cow .80 to .95/point RFV. Good grinding alfalfa none reported. Ground and delivered, old crop, 80.00-85.00. Grass hay: bluestem, small squares 100.00-110.00. Good, mid and large squares 60.00-80.00, large rounds 65.00-70.00. Brome: small squares 130.00-135.00. Good, mid and large squares, new crop 75.00-90.00, large rounds, new crop 60.00-70.00. Straw, mid squares 50.00-60.00. Grass Mulch, large rounds 40.00-50.00. Fescue, new crop rounds 20.00-30.00 delivered locally.

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North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, prairie hay and brome steady, movement slow. Alfalfa: Dairy .80-.95/point RFV, Supreme 150.00-180.00. Premium 140.00-175.00, Good 120.00-160.00, small squares 8.00/bale. Stock Cow, good 100.00-140.00. Fair/Good, grinding alfalfa 60.00-70.00. Ground and delivered 100.00-120.00. Grass hay: bluestem, small squares 6.00/bale delivered locally, large squares 70.00-85.00, large rounds 60.00-70.00. Brome: Good, small squares 7.00/bale, mid and large squares 100.00-120.00, good large rounds 60.00-70.00/T, fair 50.00-60.00. Straw, good, small squares 4.00/bale or 5.00/bale delivered, large square bales 60.00-80.00, and large rounds 70.00-85.00. CWF grass mulch 65.00 per large round bale.

***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, KS Kim Nettleton 785 564-6709

Posted to the Internet: www.ams.usda.gov/mnre-ports/DC_GR310.txt



Beef showmanship winners at the Morris County Fair were, from left: senior grand champion-Sarah Loomis; senior reserve champion-Nichole Patry; Intermediate champion Carissa Dalquest; intermediate reserve champion Jayden Patry; junior grand champion-Cassidy Dalquest. Not pictured-junior reserve champion Gavin Carson.

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Kansas Soybean Association president Raylen Phelon addresses attendees of a supper at Nelson's Landing in Leonardville that concluded a day full of activities. The event was co-hosted by the Kansas Soybean Association and Kansas Soybean Commission.

Photo by Donna Sullivan

Soybean growers gather for tour, meal

By Donna Sullivan, Editor

The Kansas Soybean Association and Kansas Soybean Commission hosted an event July 29 that included tours of the K-State Feed-mill, BIVAP (Bioprocessing & Industrial Value Added Products), the Wheat Innovation Center, the National Bio and Agro-Defense Facility, Hutchinson/Mayrath Manufacturing, River-screen, Inc., and KFRM Full Time Farm Radio in Clay Center. The day concluded with a prime rib dinner at Nelson's Landing in Leonardville.

Dennis Gruenbacher,

Kansas Soybean Commission chairman from Andale, first addressed the audience, discussing the benefits of the soybean checkoff and how the money is used. According to Gruenbacher, a 2014 study from Texas A & M calculated that for every checkoff dollar collected, producers receive a \$5.20 return in value. Funds are used for research, international market development and education. He stated that in 2019, it is projected that 3.5 billion gallons of biodiesel will be produced, of which 42% will be made from soy oil.

Kansas Soybean Association president Raylen Phelon explained that although the two groups work together and share a combined staff, they are two separate entities. Checkoff dollars cannot be used on the Association side, where policy is their main focus as they work with lawmakers in Topeka and Washington, D.C. Kansas Soybean Association members are also members of the American Soybean Association, which lobbies on behalf of producers. Farm Bill implementation, trade expansion and EPA regulations are areas where they've been heavily involved. He cited getting the 179 tax exemption into permanent law as one of their major successes, as well as protecting the agriculture sales tax exemption at the state level and the increase in acceptance and growth of bio-diesel.

He encouraged producers to consider membership if they aren't already. "We need help to go to the lawmakers," he said. "They want to hear from us and want to know what we're thinking."

North Central Kansas experiment fields fall field day planned for Aug. 16th

Kansas State University Agricultural Experiment Station and Cooperative Extension is holding its annual fall field day. All area producers are welcome to attend. The program will be Tuesday August 16th at the experiment field's dryland location 2 miles west of Belleville on the north side of Highway 36. The event will conclude with a catered supper. The program begins at 6:00 p.m. sharp with an update of the fields from the Agronomist-in-Charge followed by River Valley Extension Agriculture Agent, Kim Larson, speaking on local wheat variety performance test results. Dr. Doug Jardine will talk about row crop disease issues in north central Kansas. They will then have Dr. John Holman join us to

discuss forage sorghum varieties and production as well as give results from the 2015 Forage Sorghum Variety Performance Test. Lastly, Dr. Curtis Thompson will give an update on Inzen Sorghum and weed control. This program is sponsored by Kansas State University Agricultural Experiment Station and Cooperative Extension. This is a free event, and RSVP is not required. Please contact Andrew Esser at the experiment field office if you have any questions at 785-335-2836.

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Moyer Ranch to host KLA/K-State ranch field day

Controlling sericea lespedeza using prescribed burning will highlight the program at the August 18 Kansas Livestock Association/Kansas State University Ranch Management Field Day at the Moyer Ranch near Junction City. The ranch is owned by Rod Moyer, who grew up near Manhattan on a diversified livestock and farming operation. In 1991, he purchased the Flint Hills operation now known as Moyer Ranch, which includes a cow-calf and stocker business.

Since owning the ranch, Moyer has spent considerable resources on improving the grazing lands by removing and controlling trees and brush. K-State Range Beef Cattle Nutrition & Management Professor K.C. Olson currently is conducting a multi-year sericea lespedeza control research project using late-season burning on the Moyer Ranch. During the field day, he will share his findings and lead attendees on a tour of the control plots.

Moyer will join K-State Beef Systems specialist Justin Waggoner on the program to discuss facilities best suited for low-stress cattle handling. Moyer will share his experience in designing his own cattle handling system on the ranch. In addition, Waggoner will highlight the merits of handling cattle in a low-stress manner, focusing on the principle of applying the appropriate pressure, then adjusting according to animal response.

K-State Professor of Production Medicine/Clinical Pharmacology Mike Apley, DVM, will be on hand to discuss how best to manage anaplasmosis when the veterinary feed directive (VFD) is implemented. Apley will first update attendees on the require-

ments and implications of VFD, which becomes fully effective January 1, 2017. He then will explain how cow-calf producers might control anaplasmosis under the restrictions on using certain antibiotics in livestock feed.

The August 18 field day will begin with registration at 4:00 p.m. and conclude with a free beef dinner at 6:45 p.m. All livestock producers and others involved in the business are invited to attend.

Moyer Ranch is located east of Junction City. Between Junction City and Manhattan on I-70, take the Humboldt Creek Road exit

(#304). Go south 4.1 miles to Moyer Ranch Road. From there, go east about ½ mile. Directional signs will be posted.

Bar F Farms near Larned will host the first KLA/K-State ranch field day August 15. Bertrand Cattle Company of Wallace will be the site of the second field day August 16. Bayer HealthCare - Animal Health Division and the Farm Credit Associations of Kansas are sponsoring all three field days. For more information, go to www.kla.org or call the KLA office at (785) 273-5115.

317 Acres CHASE COUNTY, KS LAND AUCTION

FRIDAY, AUGUST 26, 2016 — 2:00 PM

Community Building — COTTONWOOD FALLS, KANSAS

Native Grass with 4 ponds and springy draw.

Located 10.5 miles SW of Cottonwood Falls, Ks.

Rolling Hills-Amazing Vistas-Productive Ag. Land.

PROPERTY OF SCHWILLING FAMILY

See www.GriffinRealEstateAuction.com for full salebill, photos, terms & conditions!

RICK GRIFFIN
Broker/Auctioneer
Cell: 620-343-0473

Griffin
Real Estate & Auction
Service LC

CHUCK MAGGARD
Sales/Auctioneer
Cell: 620-794-8824

305 Broadway
Cottonwood Falls, KS 66845
Phone: 620-273-6421 • Fax: 620-273-6425
Toll Free: 1-866-273-6421
In Office: Nancy Griffin, Heidi Maggard
Email: griffin123r@gmail.com
www.GriffinRealEstateAuction.com



ESTATE AUCTION

SATURDAY, AUGUST 13 — 9:30 AM

646 E. 800 Road — Lawrence, KS 66047

Huge auction and the quality is outstanding, only highlights are listed. Plenty of Shade, So Plan to Attend!!

See Complete Sale Bill & Photos at www.dandlauctions.com



- Kubota M4700 4WD diesel tractor w/LA1001 Loader, 755hrs
- Bradco Attachments: Pallet Forks, 611 Backhoe, Snow Blade
- Land Pride FDR3590 Finish Mower
- Bush Hog SQ84T Rotary Mower
- Land Pride SP3084 Soil Pulverizer
- Leinbach Aerator
- John Deere TR48 Trencher
- 16' Starlite Tandem axle and 5x7 Utility Trailers
- GMC 3500 Box Truck (Not Running)
- 1971 Mustang Mach 1 Fastback (no engine/trans)
- 500 Gal. Gas Barrel on Stand (New)
- Polaris Ranger 500 4x4, 425hrs
- Polaris SportsmanX2 800 Twin, 105 Hrs
- 4 Polaris Premium Alum Wheels
- John Deere HPX 4x4 Gator, 249 hrs.

Lawn Equipment: 2 Fimco Elec. Spray Tank; Craftsman 5Hp 22" Snowblower; Troy-Bilt 8Hp Chipper/Shredder; Troy-Bilt High-Wheel String Trimmer; Yard Machine 5.5Hp Rear Tine Tiller and 3.5 Front Tine Tiller; McLane Edger; Echo Leaf Blower; Echo Gas Limb Saw; Troy-Bilt and Echo Gas Hedge Trimmers; Poulan and Jonsered Chainsaws; Tow-behind spreader; wheelbarrows; numerous lawn tools; Trellis; Water Tanks. Tools: Delta 10 Tablesaw; Ridgid 12" Planer; Tradesman 6" Jointer; Central Machine Horz. Metal Bandsaw; Magna Force 60 Gal. Air Compressor;

Craftsman Tool Chest; Sand Blaster; Truckbed Toolbox; Several Shop Fans; 10' Fiberglass Step Ladder; Large Selection of Dewalt Power and Craftsman Hand Tools; Bostich and Porter-Cable Nailers; Bench Grinders; Vise; Bar Clamps; Metal Halide and LED Lights; Scaffolding. Hunting, Fishing & Camping: RCBS and Lyman Reloading Equipment; Numerous Firearm Accessories; Deer Decoys; Big Game Tree Stand; Hunting Gear; Several Shooting Targets; Game Cameras; Midland 2-way radios; trolling motor; Hummingbird fish finder; Numerous Camping and Boating Items; Alum. Ramps; Gas Patio Heater; Dog Run. Furniture, Appliances, Household, Collectibles & Misc.: Kincaid Dining Table w/ 6 Chairs and Matching Server; 2 Curio Cabinets; Beautiful Oak 4 Pc. Bedroom Set w/Queen Sleigh Bed; Iron Queen Bed; Coffee and End Tables; 2 Oak Corner Shelves; Metal Tables; Leather Lift Chair (Like New); Futon; Pictures, Holiday Décor; Exercise Equipment; Luggage; 2 Refrigerators; Vacuum; Outdoor Patio Furniture, Yard Art; Ping-Pong Table; Drive Medical 4-Wheel Electric Scooter (Like New); Gas Grills; Several Advertising Signs; Neon Beer Sign; Zippo Displays; Muehlebach Beer Cases; Old Tins; 1940's Double Kay Nut Roaster/Display; Much More.

ROBERT "BOB" OLIVER ESTATE

Concessions by Daughters of Isabella

D & L Auctions, Lawrence, KS • 785-766-5630

Auctioneers: Doug Riat & Chris Paxton

MARION COUNTY LAND AUCTION

CRP/GRASSLAND • 160 Acres m/l, Marion County, Kansas

FRIDAY, AUGUST 26, 2016 — 1:00 PM
Tampa Community Center, TAMPA, KANSAS

DIRECTIONS: In Marion County, 360th and Old Mill Road, 2 miles West of Ramona, KS.

LEGAL: Tract I: S1/2 NW1/4 Section 10-T17S-R3 East
Tract II: E1/2 NE1/4 Section 9-T17S-R3 East

DESCRIPTION:

Tract I: 80 acres terraced upland, CRP and grassland. CRP is in 2 contracts. Contract #1103 contains 7.0 acres with term of 10-2006 thru 9-2021 @ \$36/AC or \$252 annually. Contract #10124 contains 63 acres of which 1.5 acres is not on property for sale. Contract will be adjusted. Payments \$51.06/ac x 61.5 acres. Contract term is 10-2013 to 9-2023. Balance is grass currently being hayed. An Easement will be provided for access.

Tract II: 80 acres terraced upland, CRP and grassland. CRP Contract #1104 covers 50.9 acres at \$38.08/AC or \$1938 annually. Contract term is 10-2006 to 9-2021. CRP acres are clean and very good stand of grass. 24.45 acres with pond are currently being hayed.

Contact Homestead Land Company if you are interested in CRP buyout information. 100% of CRP payments will go to buyer. Buyer agrees to adhere to all terms of CRP contracts or pay any penalties that may be assessed. Seller will retain 2016 CRP payment, and hay income and pay all of 2016 RE taxes. This land is located in an area that Tradewind Energy is offering ground rent leases and Easement Agreements. At time of preparing Sale Bill no documents have been signed. Please contact Homestead Land Company for any updates. Leases will be transferred to Buyer.

FSA Data: Farm #4117 (Part)

2015 RE TAXES: Tract I: \$305.80 • Tract II: \$392.32

TERMS: The tracts will be sold individually and will not be combined. A 10% non-refundable down payment on sale date & Buyer to sign a Purchase Agreement. Land is not being sold subject to financing. Seller will convey marketable title to Buyer by Warranty Deed evidenced by a policy of Title Insurance. The Title Insurance policy premium and closing agent fees will be divided equally between the Buyer and Seller. Any additional Lender endorsement or requirements to be paid by Buyer. 2016 and all prior years taxes will be paid by Seller. Buyer to pay all 2017 and all subsequent taxes. Closing will take place on or before September 26, 2016 at the office of Costello Law Office @ Tampa State Bank, Tampa, KS. Possession upon closing, subject to tenants rights. Buyer agrees to accept and maintain CRP contract or will pay any penalties incurred. Buyer agrees to accept property in its present condition. The property will be offered based upon the Buyer's personal inspection or investigation of the property.

COMMENTS: Announcements made the day of the sale will take precedence over printed material. Dave Bures, Listing Agent, and all other Agents of Homestead Land Company, Inc. are acting as Seller's Agents and work for the Seller. The Seller or agents of the Seller are not responsible for any accidents that may occur during inspection of the property or on the day of the sale.

WARREN D. FIKE TRUST

HOMESTEAD LAND CO., INC.

Auctioneer Dave Bures, 402-766-3743 or cell 402-239-9717

112 South 19th St., Beatrice, NE 68310 • 402-228-2090

www.homesteadland.com

John Zarybnicky, Broker: Cell 402-228-6058

JACKSON COUNTY REAL ESTATE, COLLECTIBLES, VEHICLES, MACHINERY & GUN AUCTION

★ SATURDAY, AUGUST 20, 2016 — 10:00 AM ★

AUCTION LOCATION: From HOLTON, KS 7 miles North on Hwy. 75 to 286th Road, then 7 1/2 miles West on the South side or from SOLDIER, KS 2 miles North on Hwy. 62 to the Nemaha County line (1st Road) then 4 1/2 miles East on the South side.

REAL ESTATE TO BE OFFERED AT 1:30 PM: 91.5 ACRES m/l of

NORTHERN JACKSON COUNTY LAND with FARMSTEAD

Cline Realty and Auction, LLC represents the Sellers' interest.

TRACTORS, MACHINERY & TRAILERS

- John Deere 950 tractor, 3 cylinder dsl, 3 pt., dual hyd., 8998 hrs., runs good
- D-14 Allis Chalmers tractor with wf, gas motor, converted 3 pt. hitch
- Ford 555 Special 3 cylinder backhoe tractor with 7' loader bucket

TRUCKS, PICKUPS & CARS

- 2002 Chevy Silverado Duramax dsl 4x4 2500-HD pickup
- 1990 Kodiak Chevy truck with 3116 Cat dsl motor
- 1970 C-50 Chevy cab & chassis 4 sp., 2 sp., 350 mtr, runs, with title

Collectible Trucks:

- 1972 GMC 1500 pickup 350, 4 sp., runs, restorable w/title
- 1936 International 1-ton truck (not running) with title
- 1955 Chevy 5700 V-8 truck with COE cab (not running)

COLLECTIBLES, TOYS & ANTIQUE ITEMS, FURNITURE, TOOLS & SALVAGE ITEMS, MOWER, MISC., HOUSEHOLD & SADDLES, HORSES & GUNS

Go to www.mcclivestock.com/clinerealty for pictures & COMPLETE LIST & DETAILS & see Aug. 2 Grass & Grain!

SELLERS: DAN & SHELLY ROBINSON

6943 286th Road, Circleville, KS.

For personal property information please call 785-364-0219

Auction Conducted By: CLINE REALTY & AUCTION, LLC

ONAGA, KS • 785-889-4775

John E. Cline, Broker-Auctioneer • 785-532-8381

Austin Cline, Auctioneer, Frankfort, KS • 785-565-3246

www.mcclivestock.com/clinerealty

Consider these guidelines for culling cows to improve profitability

By Keith Martin, Livestock Agent, Wildcat Extension District

According to the latest K-State Farm management records it costs at least \$700 or more to maintain a cow per year. I am sure everyone still reading is thinking, well I spend way less than that on my cows! Did you consider costs of equipment, depreciation and repairs, unpaid operator

labor, interest? What about pasture costs? Just as I thought.

Regardless of the real cost to maintain a cow per year there are females in every cow herd which will not produce enough pounds of calf to cover that cost. Removing below average females will make better use of your financial and forage resources. Culling decisions have a longterm effect on

the profitability of a cow calf enterprise.

Those females at the top of the cull list should be all open cows and heifers after a 45 to 90 breeding season. This seems like a "duh" decision to me.

The next set of selection criteria for determining which animals to cull would be those related to functionality, or the cows ability to survive and thrive another

year. Unless you can answer yes to all of the following questions you should probably cull this female.

1) Is the female structurally sound enough on her feet and legs to maintain body condition, calve, and rebreed the following year?

2) Does the cow or heifer have an udder with good suspension and four healthy quarters with teats nurseable by a newborn calf?

3) Is the cows disposition manageable with available facilities and operators management skills? (Is she docile?)

4) Does the cow have enough working teeth to graze and ruminate?

After dealing with the issues previously mentioned, production records and calving dates can give guidance in making sound culling decisions. On average calves born later in the calving season are about two pounds lighter per day or said another way we can expect calves born twenty days after the start of the calving season to be forty pounds lighter at weaning than their contemporaries born the first of the calving season. Beef females which consistently calve late are not adapted to their feed resources and should be given consideration to cull.

Performance records with actual calf weights, cow weights and birthdates can

allow even better decisions to be made in culling. The Wildcat Extension District has portable scales available for you to use if needed. Or I would be willing to assist you in developing a culling protocol based on your goals and your collected performance data.

For more information about this or other livestock topics please contact livestock me at (620) 784-5337 or you can email me at rk-martin@ksu.edu.

Wildcat Extension District also offers programs in Family Consumer Science, 4-H & Youth, as well as horticulture. Information and contacts for specific concerns can be found at our website

<http://www.wildcatdistrict.ksu.edu> or you can follow us on Twitter at https://twitter.com/Wildcat_Ext or like us on facebook at <http://www.facebook.com/Wildcat.Extension.District>

ESTATE AUCTION

SATURDAY, AUGUST 20 — 9:30 AM

18287 230th Road — ATCHISON, KANSAS

Directions from Atchison, KS: Take Highway 73 South approx. 5.5 miles to 234th Rd. (St. Pats Church Rd.), go West 2.5 miles, then South 1/2 mile to auction. Watch for Chew Auction Signs.

TRACTORS, DOZER, COMBINE
2005 Mahindra 7010D Tractor, front wheel assist, cab, AC/Heater, PS, 3pt. Good Rubber, 1050 hrs, equipped with ML 170 Front Loader w/7ft bucket & bale prong (to sell as complete unit); Ford 901 Select-O-Speed Tractor, NFE, 3pt, 13.6/28 Rubber (like new); 1952 Farmall Super C Tractor, NFE, 3pt, 11.2/36 Rubber (like new); 1968 Caterpillar D6C Dozer 10ft Hyd. Blade; 1987 JD 7720 Titan II Combine.

FARM EQUIPMENT
2011 Polaris Ranger 800 w/glass windshield, factory top, 76 hours, 327 miles; New Holland 644 Baler, Auto Wrap; 1988 JD 915 Flex Head; IHC 5100 15' Grain Drill w/press wheels; Big Ox 8ft Rear Blade; Ferguson 3pt Rear Cultivator; Hutchinson 6" Grain Auger, PTO, 41"; 4"x12" Grain Auger w/electric motor; Howse 7102 7ft Rotary Mower 3pt (very good); 2-Row Front Mount Cultivator for Super C; Degelman R570S Rock Picker; Dearborn 3-Btm Plow 3pt; 10' Seeder; 3pt Bale Mover; Lincoln Portable Welder/Generator, (130 amp/3500 watt); 2002 Hillsboro "Windbreaker II" 20' Stock Trailer, gooseneck; 20' Tandem Axle Hay Trailer, 2 5/16" ball hitch; Pick-Up Bed Trailer; 20' Portable Livestock Alley w/4" palpation gate; 3pt Carry-All; Stihl FS46 Weedeater; Stihl 034 Chainsaw; Homelite 123 Chainsaw; Yard Pro 5.5hp Rear Tire Tiller (reverse tines); Craftsman 6hp 26" Front Tire Tiller w/reverse; 500 gal. Fuel Tank w/stand (diesel); 2-300 gal. Fuel Tanks, w/stands (1-Road diesel 1-gas).

SHOP EQUIPMENT
Coats 10-10 Tire Machine; Miller "Thunderbolt" AC/DC Welder; Chicago Industrial G145 5 spd. Drill Press; Wayne Air Compressor 3hp, 80 gal. tank, single phase; Grisley Metal Cutting Band Saw; Sioux #620 Valve Grinder; KO Tools Knock-Out Valve Grinder; Yale 1-Ton Chain Hoist; Parts Cleaning Tank; Power Mate Pressure Washer; Portable Air Compressor 1hp; Pedestal Grinder; Craftsman 5" Bench Vice; MAC rolling creeper; acetylene torch set complete w/cart; retractable air hose; 21/4 ton floor jack w/carrying case; jack stands; 2 Handyman jacks.

WOODWORKING EQUIPMENT
Grisley 2hp Dust Collector; DeWalt 7740 10" Radial Arm Saw; Rockwell 4spd Wood Lathe; Rockwell 6" Jointer; Craftsman 12" Band Saw; Delta 16" Scroll Saw 2spd; Craftsman 10" Table Saw; Delta Planer; Craftsman Shaper; Fleet Shaper Blades; DeWalt Mitre Saw; Rockwell Sander/Grinder; Belt Sander/Disc Sander Combination; Craftsman Router; Bosch PR10E Router (nib); Craftsman Circular Saw; Craftsman Jig Saw; DeWalt Circular Saw; Makita 18V 1/2" Drill/1/4" Impact Driver w/carrying case; Chicago Electric 1/2" Reversible Hammer Drill; B&D 3/8" Drill; DeWalt 3/8" 12V & 14.4V Drills, each has carrying case; B&D Jig Saw; Craftsman Doweling Jig; Belt Sanders; Porter Cable Pin Nailer w/carrying case; Bostitch 16ga Nailer; Bostitch 18ga Nailer; Bostitch 6 gal. Air Compressor, oil free, 150 psi; Craftsman Wood Chisels; Block Planes; Adjustable Pony Pipe Clamps; Several Sets of Drill Bits.

MECHANIC TOOLS
MAC MB1800 Rolling Tool Box; MAC 2 1/4 & 4 1/2 Bering Splitters; Snap On Combination Puller Set; Snap On CJ105-4 Slide Hammer Puller; MAC Crowfoot Wrenches; MAC 3/8 & 1/2" Swivel Sockets; MAC Impact Sockets; Snap On Ftx50 Torx Socket Driver Bits; Snap On Screwdrivers; MAC Nut Drivers; MAC HH200 Telescoping Hood

Prop; MAC Brake Tools; Mac Strut Tool; Snap On YA2224 Tie Rod Adjuster Wrench; MAC Left Hand Drill Bits; MAC 3/8 to 1 1/4" Offsets; Craftsman 1/4 to 1" Open End Wrenches; Craftsman 3/8 to 1 1/8" Box End Wrenches; Snap On Snap Ring Plier Set; Snap On S8695 4WD Axle Nut Socket; Snap On Tools 3 Set Puller Jaws; OTC 7249 Ball Joint Service Kit; MAC Brake Caliper Tool (for disc brakes); MAC AC790B Leak Detector; MAC Slide Hammer Tool; MAC 3/8" Torque Wrench; Craftsman 3/8" & 1/2" Torque Wrenches; Snap On 1/2" Torque Wrench; Kent Moore J9789-01 Carburetor Adjusting Gauge Set; Ken Moore Flushing Kit; Central Pneumatic Ratchet Gun; Chicago Pneumatic 1/2" impact, 3/8" butterfly, & air saw; Matco 3/8" Ratchet & Impact; Rodac 3/8" Air Drill; MAC 1/2" Impact; Impact Punch & Chisel Set; Roddick No.100 Extractor Set 1/8" to 13/32"; 1/4", 3/8", 1/2" & 3/4" Socket Sets; MAC Metric 7-24 Open End/Box End Wrenches; MAC Metric Hex Key Set; Starret 224 2"-6" Outside Micrometer Set; Starret Inside Mic, Depth Mic; Dial Calipers; Allen Engine Analyzer PB651; Timing Lights; Large Assortment of Hand Tools: Vise Grip, Crescent Wrenches, Hammers, Chisels, Punches, Pliers, Files, Hex Wrenches, Hack Saws, Hand Saws, Lots More.

COLLECTIBLES
Advertisement Yard Sticks; Pitcher Pump; Belt Buckles: Heston '77, A T & Santa FE, McCormick; Goetz Beer Lighted Sign; #40 Dazey Churn; 4 Quart Dazey Churn w/metal paddles; Wash Tub; 45 Records; Sad Irons; Apple Peeler; Automotive Manuals 1950's thru 1980's Buick & Pontiac; 1/16 Tractors & Equipment: Farmall H, AC WD45, JD 4010 wfe, JD "G", Ford 901, Ford 8N, Farmall F20, JD 820, Case L, JD 6200, MH 44 Special, Farmall MTA, MF 275, Farmall Super C, AC G w/plow, CAT 11R Tract Tractor, JD A (1 styled 1unstyled), JD 2440, MH Pony, JD 40 Crawler, Case/IH 2166 Axial Flow Combine w/corn head & grain head, IHC 1-Row Corn Picker, JD Square Baler, JD Grain Drill, IHC 900 Air Planter, JD Grinder Mixer.

HOUSEHOLD
Electric Lift Chair; Wrought Iron Patio Table w/4 chairs; Dining Table w/6 chairs, 2 leaves; Recliner; Sofa; Samsung Flat Screen Television; Oval Dinette Table w/2 leaves; Card Table w/4 chairs; Floor Lamp; Oak Dining Chairs; Queen Size Bed Complete w/matching dresser & night stand; Book Shelves; Book Case (out of Terry School House); Schwab Home Safe; Desk & Chair; 4 Drawer File Cabinet; Amana 15 cu. ft. Chest Type Freezer; Norge Upright Freezer; JVC CD Player; Zenith Stereo Receiver; Upright Vac; Computer Desk; Computer Monitor, Keyboard, Printer; Electric Appliances; Pots & Pans; Linens, Bedding, Etc.; Kitchen Aid Mixer.

MISCELLANEOUS
Metal Bolt Bins; Air Tank; Wooden Block Pulley; Grease Guns; Extension Cords; 220 Extension Cord; Hitch Pins; Battery Testers; Engine Oil; Golden Rod Oil Cans; Toledo Pipe Vise; Transfer Pump 1740 GPH; Mr. Heater 125,000 BTU Shop Heater; ParMak Battery Fencers; Log Chains; Load Binders; 2-Man Cross Cut Saw; Werner AP20 Work Platform; 24' Aluminum Extension Ladder; 7' Fiberglass Step Ladder; Welding Rod; IT Repair Manuals; Pipe Threader; Tractor Radio; Post Driver; 2-Hose Reels w/hose; LP & 45 Records; Honeywell Heater (NIB); 8' Folding Table; Electrical Boxes; Metal Saw Horses.

Lunch by Meadowlark 4-H Club. Restrooms on grounds
OWNER: CHARLES VANDERWEIDE JR. ESTATE
To view photos go to www.kansasauctions.net/chew

Auction Conducted By: CHEW AUCTION SERVICE
Robert Chew Auctioneer/Real Estate Agent
Lancaster, Kansas • 913-874-5053 • 913-370-2265



Judge Troy Marple selected Anna Schrader's entry as the reserve champion market steer at the Morris County Fair.

REAL ESTATE & PERSONAL PROPERTY AUCTION

SATURDAY, AUGUST 20 — 10:30 AM

13th & Underwood Lane — WESTPHALIA, KANSAS

Selling Tract 1 190 acres prime creek bottom, 142 acres tillable with balance in creek, grass, & trees with hunting potential; Tract 2: 160 acres good pasture with good fence & pond.

Please call Darwin W. Kurtz, Broker & Auctioneer for terms or more information 785-448-4152 (exclusive agent for seller)

REAL ESTATE SELLS FIRST WITH TRACTORS & FARM MACHINERY TO IMMEDIATELY FOLLOW:

Tractors: 1996 JD 7610 MFWD, w/740 JD ldr & bkt w/hyd grapple, factory joystick, cold air, cab good, 3 pt, triple hyd; 1998 JD 7210 MFWD, w/740 JD ldr & bkt, cab rough, cold air, 3 pt, triple hyd, real good 18.4-38 Firestone all traction radials on back, 5181 hrs; 1994 JD 7800, cab interior needs repair, cold air, 3 pt, duals, triple hyd, 3735 hrs; JD 7400 cab interior needs repair, cold air, 3 pt, triple hyd, 6822 hrs.

EQUIPMENT: 630 JD Disc 20' good blades; 960 JD Field Cult w/mulcher 25', good; 680 JD chisel, 15 shank, high clearance; 825 JD 6 row Cult. Danish tines; 8300 JD Drill 23 hole 7" DD;

7200 JD Planter 6 row vacuum/fertilizer boxes; 450 JD PTO manure spreader, hydra push; Hutchinson Mayrath Auger 10"x62"; Schulte Rotary Auger 10"; 5 btm JD Plow & 6 btm JD on land Plow; Bale trailers; Roto Mix IV Feed Mixer Wagon w/hay table & scales (shedded); Gehl 125 Grinder Mixer (shedded, good, hammers on first edge) New Holland 355 Grinder mixer; Small Grain O Vator wagon; Parker Gravity Wagon; 30 ton HMI overhead bulk bin; Wilson Wheel Corral; Feed bunks, panels, livestock equipment; fuel barrels, riding mower, Coleman generator, air compressor.

Complete sale bill with pictures, terms & more information at www.kansasauctions.net/kurtz

Short sale - plan to attend on time! Note: All previously advertised titled items have been removed from this auction.

ELMER DEAN HERR TRUST & THE MARJORIE D. HERR TRUST, SELLER
Bryan K. Joy, Trustee 620-364-8411

KURTZ AUCTION & REALTY SERVICE
Darwin W. Kurtz Broker & Auctioneer 785-448-4152
Asst Auctioneers for Personal Property:
Lyle Williams 785-229-5457 & Laverne Yoder 785-489-2335

HUGE 3 GENERATION FARM AUCTION

Saturday, August 20, 2016

9:00 a.m.

LOCATION: 7 miles south of Auburn, Neb., on Hwy 75 or 20 miles north of NE/KS line on Hwy. 75.

20+ Tractors 30+ Vehicles
Years Ranging From
1920s Through 1980s

In Addition To Complete Line Of Farm Equipment, Tools, Parts And Miscellaneous
MUST SEE to BELIEVE



For listing and pictures go to
www.CaspersAuction.com

Mark Caspers 402-274-3000
Marvin Caspers 402-274-7802

AUCTIONEERS NOTE: Equipment dispersal of accumulation of well over 100 years and 3 generations of Smith family ownership of this farm. Many of the tractors, vehicles and farm equipment were purchased new by the Smith Family. There will be a significant amount of miscellaneous, collectible and smaller items to be brought out of the barns and sold that are not listed.



Cassidy Dalquest exhibited the supreme breeding heifer at the Morris County Fair. Troy Marple judged the event.



The reserve supreme breeding heifer at the Morris County Fair was shown by Sarah Loomis, pictured with judge Troy Marple.

UPCOMING AUCTIONS

WESTERN SIZZLIN' BUFFET & STEAKHOUSE

RESTAURANT REAL ESTATE AUCTION

WEDNESDAY, AUGUST 10, 2016 AT 7:00 PM

1708 W Crawford St, Salina, KS

View full sale bill on our web site.

THERESA HALEY ESTATE REAL ESTATE & PERSONAL PROPERTY AUCTION

SATURDAY, AUGUST 20, 2016 AT 10:00

411 E Stimmel Rd, Salina, KS

Watch our web site for sale bill.

TOOLS, HOUSEHOLD, MOWERS, BOATS, ETC.

SATURDAY, AUGUST 27, 2016 AT 10:00 AM

601 S Broadway, Salina, KS

Watch our web site for sale bill.

GUNS & AMMO AUCTION

SUNDAY, AUGUST 28, 2016 AT 1:00 PM

601 S Broadway, Salina, KS

40 guns and 20,900 rounds ammo .22 to .50 cal, more expected.

Watch our web site for sale bill.

CONSIGNMENT SALE WITH MERCHANDISE FROM KANSAS DEPT. OF WILDLIFE, PARKS & TOURISM

SATURDAY, SEPTEMBER 24, 2016 AT 10:00 AM

601 S Broadway, Salina, KS

Contact auction staff, consign early and benefit from \$\$\$\$ advertising in newspapers and web sites. Watch our web site for sale bill.

Wilson Realty & Auction Service

P.O. BOX 1305, SALINA, KS 67401 • (785) 827-5553

LONNIE WILSON - OWNER/BROKER/AUCTIONEER • (785) 826-7800

DAVE HUNT - SALES MANAGER • (785) 201-5257

CAROLYN HUTCHINS - OFFICE MANAGER • (785) 823-1177

Website & Contact Email Addresses: www.soldbywilson.com

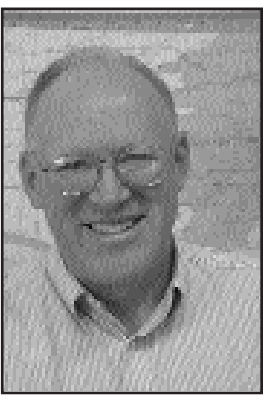
Any announcement made the day of sale takes precedence over any printed matter.

For Latest Update & Pictures go to website: www.soldbywilson.com

Kansas Profile

By Ron Wilson

*Executive Director
of the Huck Boyd
Institute*



Michael Hook and Jim Gray – Chisholm Trail 150

By Ron Wilson, director of the Huck Boyd National Institute for Rural Development at Kansas State University

"The Chisholm Trail." The name evokes cattle and cowboys, independence and daring, the frontier and the wild, wild West. All those things are part of the history of the Chisholm Trail, which will honor its 150th anniversary beginning with a celebration in the town where it really all began: Abilene. This is today's Kansas Profile.

What would work for you? Field days scheduled for water technology farms

Tours of two farm sites that feature implementation and comparison of some of the latest irrigation technology are scheduled for Wednesday, Aug. 24 near Larned and Tuesday, Aug. 30 near Garden City.

Each site features center pivot systems equipped with mobile drip irrigation (MDI) water application systems that use micro irrigation drip hoses attached to the center pivot drop lines and one or more common irrigation nozzle systems traditionally used in that particular area. Soil sensor technology and ET (evapotranspiration) based irrigation scheduling are also used.

The Larned site tour on Aug. 24 starts at 2:00 p.m. at ILS Farms and consists of two center pivot irrigated quarters. The tour stop will be near the corner of the intersection of C Road and 80th Ave. or about six miles northeast of the intersection of US Highways 50 and 19. The site is three miles east of US Highway 19 on C road.

The Roth Farms near Garden City is located within the Garden City Company farm holding, and is the site of the Aug. 30 tour, starting at 9 a.m. It features a center pivot equipped with three different water application systems, including MDI. Spacing between the application methods vary. The site is near the intersection of N. Ritchel and W. Lowe Roads, about two miles north of US Highway 50. The farm is two miles west of the Garden City Coop elevators on Big Lowe Road.

K-State Research and Extension is partnering with public and private entities, including agriculture- and irrigation-related companies, producer associations, water agencies and farm owners and managers to establish the two farm sites and host the tours. The sites are also championed by the Kansas Water Vision Plan to focus on implementing irrigation technology to help extend the life of irrigation from a depleting water supply.

Using water as efficiently as possible in crop production will also be in focus at K-State Research and Extension field days Aug. 19 in Stevens County, Aug. 23 in Colby and Aug. 25 in Garden

City. For more information, contact Jonathan Aguilar, water resource engineer with K-State Research and Extension at 620-275-9164 or email jaguilar@ksu.edu. All events are free.

Michael Hook is an events coordinator for the City of Abilene. He is from Kansas City but grew up in Texas where he became a western history buff. "Davy Crockett was my hero," Michael said. A business ca-

reer took him around the Midwest but he became interested in possibly teaching history.

"I stumbled upon Abilene, and it's everything you would ever want," Michael said. He moved to Abilene, met his wife, studied local history and became the coordinator for a landmark series of events marking the 150th anniversary of the founding of the Chisholm Trail.



Winning the bucket calf division at the Morris County Fair were Colter Johnson-reserve champion and Cole Wilson- grand champion. They are pictured with judge Troy Marple.

RETIREMENT AUCTION REAL ESTATE & FARM MACHINERY

320 ac., M/L, of S. Wabaunsee Co. Pastureland, Hayland and Tillable Farmland with Farmstead

SATURDAY, SEPTEMBER 10, 2016

STARTING TIMES:

FARM MACHINERY – 11:30 AM REAL ESTATE – 2:00 PM

AUCTION LOCATION: From the Jcts. of Hwy. 99 and Hwy. 4 in Eskridge, KS, go 1.2 miles west and south on Old K-4 Road, then 1/2 mile on west on Old K-4 Rd.

ITEMS SELLING: Tractors, Trucks and Haying Equipment

REAL ESTATE: To be offered at 2:00 P. M. at Machinery Sale Site

LEGAL DESCRIPTION: The Southeast Quarter of Section 13 and the Southwest Quarter of Section 18, both in Township 14 South, Range 12 East, Wabaunsee Co., KS, known as 19787 Headwaters Rd., Eskridge, KS

REAL ESTATE LOCATION: From the Jcts. of Hwy. 99 and Hwy. 4 in Eskridge, KS, go 1.2 miles west and south on Old K-4 Rd., then continue on south 1 mile on Allen Rd. to Headwaters Rd., then 1 mile west on the north side

This property consists of 320 acres, M/L, which includes 60 terraced, tilled acres plus clean, native grass pasture, brome grass and meadow. There are several plum thickets and a wooded creek area, making for excellent wildlife habitat. This property has a large pond, with approximately 20 acre capacity, when full.

There is a farmstead on this property that consists of a large, older 2 story home, (in need of remodeling), a 60 ft. X 60 ft. enclosed metal and wood frame shed with smooth concrete floor and 20 ft. side walls. There is also a cattle corral and 2 older sheds. The water supply consists of a well with 2 Ritchie cattle waterers. This property is a good stock farm or can be used as a recreational or hunting property.

For more information, complete terms or viewing, please call John E. Cline, 785-532-8381 or check our website: www.mcclivestock.com/clinerealty

Auctioneer's note: If you are looking for property with lots of potential in beautiful Wabaunsee Co., KS. Come Take a Look!

SELLER: DONALD I. PFUETZE

Auction Conducted By: CLINE REALTY & AUCTION, LLC
Onaga, KS 785-889-4775

John E. Cline, Broker/Auctioneer, 785-532-8381
WEBSITE: www.mcclivestock.com/clinerealty



wild west came to life on the streets of Abilene.

From Wichita, a half-Cherokee trader named Jesse Chisholm sent wagonloads of goods south to be sold in Indian territory. The Texas drovers learned that they could follow the tracks of those wagon wheels north. The route became known as the Chisholm Trail.

The first rail shipment of cattle from Abilene took place on Sept. 5, 1867. Texas, Oklahoma and Kansas have gotten together to plan a series of celebrations of the 150th anniversary. Abilene will kick off the fun with a big show on Labor Day weekend in 2016, culminating in an even bigger show a year later. Western performer Red Steagall will headline the 2016 show along with Kansas cowboy musicians and poets. Full disclosure: those will include me. The celebration will include a parade, re-enactors, vendors, car show, fireworks and much more.

Kansas cowboy historian Jim Gray has been part of this planning. He was at a meeting in Texas in February 2016 when the unlikely idea surfaced of an actual, modern-day cattle drive up the Chisholm Trail. Jim had

Grass & Grain, August 9, 2016

been part of a smaller version of a cattle drive for the Kansas sesquicentennial, and he said it would be possible. His friend Fontella Knowlton said, "Let's do it!"

Plans now call for driving up to 400 Texas Longhorns from San Antonio, Texas to Abilene, Kansas from April 1 to July 1, 2017. Jim and Fontella are planning the route as close to the original trail as possible. They're organizing campgrounds and logistical support.

People can apply to participate in the cattle drive for a fee. Participants must provide their own horse and wear authentic-looking clothing. Jim and Fontella will be trail bosses. Six to eight drovers will go the entire trip along with two chuck wagons, while participants can sign up for weekly segments. A big celebration will be held in Abilene around the Fourth of July to mark the end of the cattle drive.

For more information about these events, go to www.chisholmtrt.com and www.chisholmtrail17cattle drive.com.

The Chisholm Trail. It evokes history, adventure, and fun, all of which can found at Abilene's celebra-

tion of this historic landmark. We commend Michael Hook, Jim Gray, Fontella Knowlton and all those involved for making a difference by bringing this history to life. Cowboys and cattle will once again be roaming across the plains of Kansas.



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CATTLE SALE EVERY WEDNESDAY: 11:30 AM

SELL HOGS 1ST & 3RD

WEDNESDAY OF EVERY MONTH

8/03/16

Steer & heifer calves sold on a very active market, selling \$3-5 higher. Feeder steers & heifers sold steady to \$5 higher depending on quality & condition. Slaughter cows & bulls sold steady to \$1 higher.

COWS			
Wilsey, 1 bwf	1085@85.50	Wht City, 1 blk	1375@78.50
Wht City, 1 blk	1310@83.50	Wht City, 1 blk	1355@78.00
Wht City, 1 bwf	1345@82.50	Wht City, 1 blk	1305@78.00
Wht City, 1 blk	1525@82.00	Wht City, 1 wf	1480@78.00
Wht City, 1 blk	1685@82.00	Wht City, 1 blk	1380@77.00
Wht City, 1 blk	1855@81.50	Wilsey, 1 Char	1390@75.50
Wht City, 1 bwf	1305@81.50	Wilsey, 1 blk	945@75.00
Wht City, 1 blk	1510@81.50	Wht City, 1 blk	1285@70.00
Herington, 1 blk	1825@81.00	Wilsey, 1 blk	1025@65.50
Wilsey, 1 blk	1040@80.50	BULLS	
Wht City, 1 blk	1555@80.50	Durham, 1 red	2200@98.00
Wht City, 1 blk	1520@80.50	Herington, 1 blk	1780@98.00
Wht City, 1 red	1670@80.50	Cncl Grve, 1 blk	1980@95.50
Wilsey, 1 Char	1000@80.00	Alta Vista, 1 red	1615@94.50
Wht City, 1 blk	1610@80.00	STEERS	
Wht City, 1 bwf	1055@80.00	Lncnlvle, 5 blk	468@170.00
Wht City, 1 blk	1420@79.50	Lncnlvle, 8 blk	656@158.00
Wht City, 1 blk	1655@79.50	Lncnlvle, 5 blk	739@153.50
Wht City, 1 blk	1320@79.50	Lncnlvle, 12 blk	775@152.50
Wht City, 1 blk	1325@78.50	Ramona, 63 mix	777@152.25
		Cncl Grve, 22 blk	777@150.75
		HEIFERS	
		Webber, 126 blk	755@144.60
		Herington, 28 mix	549@144.00
		Herington, 17 mix	698@137.75
		Herington, 17 mix	784@135.25
		Hope, 4 blk	814@133.75

CONSIGNMENTS FOR AUGUST 10:

- 18 mostly blk strs, 550-600 lbs, shots & home raised
- 14 mix strs, 500-550 lbs, home raised, weaned
- 10 blk bwf hfrs, 600-650 lbs, home raised, shots & weaned
- 45 blk bwf strs, 650-700 lbs homeraised, shots, & weaned
- 14 mix hfrs, 650-700 lbs
- 178 mix strs, 800-875 lbs
- 180 mix strs, 800-850 lbs
- 300 mostly blk hfrs, 750-800 lbs
- 140 mostly blk strs & hfrs, 775-850 lbs
- 60 mix strs, 850-875 lbs
- 118 mix strs, 900-950 lbs

MORE CATTLE BY SALE TIME!

EARLY CONSIGNMENTS FOR AUGUST 17:

- 25 blk bwf strs, 750-900 lbs
- 124 mostly blk strs, 800-850 lbs
- 480 mix strs & hfrs, 750-850 lbs
- 120 mix strs, 900-950 lbs

MORE CATTLE BY SALE TIME!

NEXT SHEEP AND GOAT SALE AUGUST 25 @ 6:30

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

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Fetal programming and calf health

By Glenn Selk, Oklahoma State University Emeritus Extension Animal Scientist

A relatively new arena of beef cattle research is labeled “fetal programming”. Fetal programming is generally considered the impact of nutritional and health status of the mother during pregnancy and its impact on the health and productivity of the offspring.

Much of the research on maternal nutrition during pregnancy has focused on

the last trimester when most fetal growth takes place. The relationship between late pregnancy nutrition and health of the calf is confounded by the colostrum production and intake. Undernourished cows in late gestation produce less colostrum and therefore calves with increased sickness and death loss.

However, little is known about the effect of nutrition on the middle third of gestation and subsequent health

of the calf. The immune system of the fetal calf is developing at this time. Will an undernourished beef cow adversely affect the ability of her calf to ward off diseases after birth and into the feedlot phase of production? South Dakota State University scientists looked at the effects of cow energy status during mid-gestation on progeny performance including immune function. They used 151 cows fed to maintain a body condition score of 5.0

to 5.5 (positive energy status treatment) or fed cows to only 80% of what they needed to maintain body weight and condition (negative energy status treatment). These treatments were applied during the middle three months of gestation. During the first one-third of gestation and the last third of gestation all cows were fed similar diets.

After weaning, the calves were taken to a feedlot where growth and production traits could be monitored.

A subsample of the calves was subjected to a foreign protein (ovalbumin) challenge 19 days after arrival at the feedlot. They then measured the antibody response to the ovalbumin challenge to determine immune activity by the calves. These scientists found no differences in birth weight, weaning weight, feedlot average daily gain, dry matter intake, or gain to feed ratio due to the nutrition of the cows in mid-gestation.

However, the calves born

to the positive energy status cows had significantly greater antibody titers when challenged than did the counter parts that were born to the cows with restricted energy in mid-gestation. They concluded that mid-gestation nutrition may very well have an effect on immune response of calves during a receiving period in the feedlot. Source: Taylor, et al. 2016: Professional Animal Scientist. Vol. 32:4: pp.389-399.

Farmers & Ranchers

AUCTIONS EVERY MONDAY & THURSDAY

Selling Hogs & Cattle every Monday

RECEIPTS FOR THE WEEK TOTALED 6530 CATTLE AND 130 HOGS. BUTCHER HOG TOP ON MONDAY WAS \$43.00

STEERS				
300-400	\$180.00-\$190.00	115 blk	Abilene	930@146.75
400-500	\$170.00-\$181.00	53 blk	Salina	947@146.25
500-600	\$170.00-\$183.00	3 mix	Abilene	850@145.50
600-700	\$150.00-\$169.00	160 blk	Abilene	991@144.35
700-800	\$145.00-\$163.00	75 blk	Abilene	999@144.10
800-900	\$135.00-\$150.00	55 mix	Longford	923@144.00
900-1,000	\$130.00-\$147.35	4 char	Tampa	921@143.50
		55 mix	Bennington	849@142.75
		110 blk	Bennington	967@142.00

HEIFERS				
500-600	\$150.00-\$164.00	10 jersey	Assaria	700@98.00
600-700	\$138.00-\$155.50	26 Hols	Garnett	910@90.00
700-800	\$132.00-\$149.50	6 Hols	Salina	892@90.00
800-900	\$128.00-\$142.50	5 Jersey	Garnett	971@85.00
900-1,000	\$120.00-\$132.00			

STEERS					
1 blk	Valley Center	320@190.00	12 blk	Osborne	557@162.00
8 blk	Minneapolis	508@183.00	10 blk	Clay Center	536@160.00
3 blk	Kanopolis	477@181.00	5 mix	Lindsborg	519@156.00
2 blk	Minneapolis	448@180.00	26 blk	Clay Center	614@155.50
13 blk	Clay Center	524@180.00	76 blk	Marquette	683@155.50
3 blk	Ellsworth	480@180.00	16 blk	Osborne	641@153.00
3 blk	Lindsborg	530@179.00	8 blk	Piedmont	619@151.00
15 blk	Lincoln	551@178.00	3 blk	Lincoln	682@150.00
33 blk	Clay Center	621@169.00	21 blk	Longford	706@149.50
2 blk	Kanopolis	618@168.00	7 blk	Ellsworth	653@149.00
57 mix	Hutchinson	613@167.75	5 blk	Burden	622@149.00
9 blk	Ellsworth	648@166.00	16 mix	Ellsworth	769@148.50
13 blk	Piedmont	654@165.00	13 blk	Piedmont	692@148.00
3 blk	Lincoln	678@165.00	12 blk	Gypsum	713@147.00
6 mix	Lindsborg	693@164.00	13 blk	Longford	640@147.00
15 blk	Longford	651@163.50	39 mix	Salina	729@146.35
16 mix	White City	706@163.00	81 blk	Marquette	764@146.00
13 blk	Ellsworth	730@162.50	5 blk	Burden	706@144.50
6 mix	Salina	701@162.00	74 mix	Assaria	746@144.00
6 blk	Gypsum	612@162.00	23 mix	Salina	730@143.00
20 blk	Ellsworth	725@161.00	11 blk	Ellsworth	835@142.50
20 blk	Piedmont	736@159.00	6 blk	Ellsworth	821@137.00
34 blk	Lindsborg	731@159.00	75 mix	Sterling	824@136.60
36 blk	Longford	764@155.25	58 mix	Wilsey	846@136.10
94 mix	Hope	769@151.50	6 blk	Sterling	898@135.35
10 blk	Gypsum	803@150.00			
11 mix	Ellsworth	800@150.00	SPECIAL FEEDER SALE		
11 blk	Ellsworth	866@148.50	TUESDAY, AUGUST 2:		
47 blk	Hope	838@148.10	STEERS		
56 blk	Abilene	944@147.35	11 mix	Bennington	787@153.25
55 blk	Salina	907@147.10	120 blk	Marion	771@153.25
27 mix	White City	881@146.75	41 blk	Inman	759@152.00
			72 blk	Inman	763@151.75

SPECIAL FEEDER SALE TUESDAY, AUGUST 2: STEERS

11 mix	Bennington	787@153.25
120 blk	Marion	771@153.25
41 blk	Inman	759@152.00
72 blk	Inman	763@151.75

IN STOCK TODAY

- Heavy Duty Round Bale Feeders
- 6'8" X 24' GOOSENECK STOCK TRAILER METAL TOP
- 6'8" X 24' GR Stock Trailer Metal Top
- 6'8" X 24' GR Stock Trailer Metal Top
- 6'8" X 20' GR Stock Trailer Metal Top, USED

Livestock Commission Co., Inc. Salina, KANSAS

SALE BARN PHONE: 785-825-0211

MONDAY — HOGS & CATTLE

Hogs sell at 10:30 a.m. Cattle at 12:00 Noon. Selling calves and yearlings first, followed by Packer cows and bulls.

THURSDAY — CATTLE ONLY

Selling starts at 10:00 a.m. Consign your cattle as early as possible so we can get them highly advertised.

— AUCTIONEERS —

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For a complete list of cattle for all sales check out our website www.fandrlive.com

122 mix	Enterprise	819@147.85	1 brwn	McPherson	1250@78.00
118 blk	Salina	888@147.10	1 red	Beloit	1460@78.00
189 blk	Inman	849@145.85	3 blk	Bennington	1597@77.00
125 blk	Inman	846@145.75	1 brwn	McPherson	1360@77.00
119 blk	Inman	858@145.35	9 mix	Brookville	1385@77.00
119 blk	Inman	855@145.00	1 char	Tescott	1230@76.50
59 blk	Inman	849@145.00			

34 blk	Abilene	842@144.35	CALVES		
67 blk	Herington	876@144.25	1 blk	Lindsborg	260@460.00
116 blk	Salina	952@144.10	1 rwf	Salina	280@410.00
65 blk	Bennington	881@143.75	1 blk	Ellsworth	160@325.00
55 mix	Bennington	957@142.85	2 blk	Lindsborg	160@325.00

60 blk	Durham	940@142.10				HOGS
113 blk	Inman	931@141.75	1 red	Tescott	230@43.00	
56 blk	Inman	938@141.35	13 mix	Tescott	258@41.50	
57 mix	Chapman	931@140.50	6 mix	Abilene	276@40.00	
77 blk	Inman	909@140.25	2 mix	Clay Center	313@33.50	
56 mix	Herrington	964@138.10				

HEIFERS			1 hamp	Clay Center	615@38.00
71 mix	Marion	642@155.00	1 wht	Abilene	550@36.00
61 mix	Salina	730@144.25	3 wht	Abilene	585@36.00
44 mix	Marion	711@143.75	2 wht	Abilene	563@36.00
119 blk	Salina	785@142.60	1 wht	Abilene	635@36.00
61 red	Salina	776@142.25	1 wht	Manhattan	520@36.00
60 mix	Durham	930@132.00	2 wht	Abilene	520@35.00

COWS			2 wht	Abilene	528@35.00
3 rdmx	Brookville	1730@79.50	2 wht	Abilene	515@34.00
10 mix	Brookville	1566@79.00			
1 char	Hillsboro	1355@79.00			
PIGS					
1 red	Beloit	1410@78.50	14 mix	Bennington	33@20.00

1 char	Hillsboro	1355@79.00	PIGS		
1 red	Beloit	1410@78.50	14 mix	Bennington	33@20.00

EARLY CONSIGNMENTS FOR THURSDAY, AUGUST 11:

150 Red Angus & Char X strs, 900-1,000 lbs.; 152 certified Red Angus strs, 925 lbs.; One Iron; 100 blk strs, 875 lbs.; 24 Angus strs & hfrs, 600-700 lbs.; 80 blk & Char X strs, 600-750 lbs.; 18 blk strs, 700-800 lbs.; 24 hfrs, 800 lbs., off grass; 36 blk strs & hfrs, 700-800 lbs., homeraised, 2 rds vacc., green, open; 160 mostly blk strs, 650-775 lbs.; 200 blk strs, 850-900 lbs., off grass.

PLUE MORE BY SALE TIME!

For information or estimates, contact:

Mike Samples, Sale Mgr., Cell Phone 785-826-7884
Kyle Elwood, Asst. Sale Mgr., Cell Phone 785-493-2901

Jim Crowther
785-254-7385
Roxbury, KS

Lisa Long
620-553-2351
Ellsworth, KS

Cody Schafer
620-381-1050
Durham, KS

Kenny Briscoe
785-658-7386
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Kevin Henke
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CLASSIFIED AD DEADLINE IS 10:00 A.M. FRIDAY

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

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

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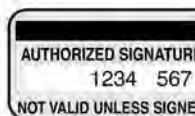
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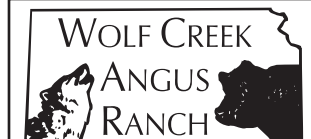
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Multispecies pastures show productivity, drought tolerant promise

Getting more for less is an attractive concept. But it isn't that easy when it comes to producing more food on less land with fewer resources.

R. Howard Skinner has been researching this idea of more for less in agriculture. Skinner is a physiological plant ecologist and member of the USDA-ARS-Pasture System and Watershed Management Research Unit. He's been looking into how to increase the amount of forage (grasses and plants that animals eat) pastures can grow. If a piece of land can produce more forage, it can feed more cows. More cows mean more beef and milk.

Previous studies suggest

incorporating multiple types of plants in pastures is an effective way to increase the amount of forage. However, these studies varied in length. It hasn't been possible to say for sure what long-term effect using multiple types of plants has on forage production. To learn more, Skinner spent nine years tracking the progress of multispecies pastures.

Skinner and his team at Pennsylvania State University Hawbecker Farm planted eight experimental paddocks. They planted four paddocks with orchard grass and white clover. Another four paddocks had a combination of chicory, orchardgrass, tall fescue,

white clover, and alfalfa. When the plants reached a certain height, cows grazed in the paddocks.

The researchers collected samples of the forage before and after the cows grazed. This helped them estimate the amount of forage produced and determine what types of plants were present in the paddocks. Additionally, researchers collected soil samples to check on the plant roots and determine how much carbon was being stored in the soil.

Skinner tracked changes in the amounts of each plant species over the course of the nine years. "We expected some of the species from the more com-

plex mixture to disappear over time," he explains. What he didn't expect was the continued superior performance of the five-species mixture even after some of the species disappeared. "Initially I would have thought the loss of species from the more complex mixture was a negative, but this research suggests that by improving soil conditions, specifically soil organic matter, the initial inclusion of multiple species had a long-lasting positive effect even after species differences had disappeared."

The five-species mixture produced, on average over the nine years, 31% more forage than the two-species

mixture. This could be because the five-species mixtures were also storing more carbon in the soil than the two-species mixtures.

These results are encouraging, and reach beyond mere number of forage plants. Increased forage production means more beef and milk. And increased amounts of carbon stored in the soil also means the soil can hold more water.

"The greatest challenge from climate change in the northeast probably has more to do with water availability (both too much and too little) than heat," says Skinner. Incorporating multiple species into pastures

may be able to help protect against runoff after heavy storms and against droughts during dry years.

Overall, this nine-year study supports previous findings that multispecies pastures can produce more forage, but there are still many more decade-long studies that need to be done. In the meantime, Skinner recommends researchers and land managers "select a few species with specific goals in mind," but understand that many factors, including how the land was previously managed, will have a bearing on results.

Skinner's research is published in *Crop Science*.

Kansas State University's CEEZAD receives \$2.3 million grant for vaccine research

The Center of Excellence for Emerging Zoonotic and Animal Diseases, or CEEZAD, at Kansas State University will use a \$2.3 million federal grant to study the safety in livestock

of a newly developed vaccine to protect humans from the Ebola Zaire virus.

The grant is from the Defense Threat Reduction Agency in the U.S. Department of Defense through a

collaboration with the commercial firm NewLink Genetics. A \$100,000 matching contribution from the state of Kansas' NBAF Transition Funds brings the total project funding to \$2.4 million.

The university's Biosecurity Research Institute will be used to conduct the project.

The vaccine is called VSV-ZEBOV, which is an acronym for Vesicular Stomatitis Virus-Zaire Ebola Virus. The virus can infect

cattle and its clinical presentation is identical to the foot-and-mouth disease virus and the Zaire strain of Ebola virus — the main strain that causes the severe, often fatal, Ebola hemorrhagic fever disease in humans. The virus is thought

to be transmitted to people from an as-yet unidentified wild animal reservoir, and then spreads in the human population through human-to-human transmission. The average disease case fatality rate is around 50 percent, but has varied from 25 percent to 90 percent in various outbreaks.

Jürgen Richt, regents distinguished professor at Kansas State University and director of the Center of Excellence for Emerging and Zoonotic Animal Diseases, will be the principal investigator for the project.

"We are very excited to begin research to test the safety of this vaccine, the only efficacious Ebola virus vaccine available," Richt said. "As the world saw with the deadly 2014 outbreak in West Africa, Ebola is one of the most serious emerging zoonotic threats to humans."

Richt also expressed appreciation for the contribution from the state's NBAF fund for the work. NBAF stands for the National Bio and Agro-defense Facility, which is the nation's premiere animal disease research facility that is currently under construction adjacent to the Kansas State University campus in Manhattan.

Zoonotic diseases are those capable of being transmitted from animals to humans and vice versa. It is thought that Ebola virus, which was first identified in 1976, is introduced into the human population through close contact with infected animals such as chimpanzees, gorillas, bats, monkeys, and maybe antelope and porcupines. It is also possible that the Ebola virus can be transmitted through sexual contact involving already-infected persons. The Zaire species of Ebola virus is one of five species that have been identified, and has been associated with large disease outbreaks in Africa — including the 2014 West African outbreak, which infected an estimated 28,600 people and resulted in more than 11,000 deaths.

No infectious Ebola virus will be used in the Biosecurity Research Institute during the studies. The work will provide information to supplement the overall safety of the VSV-ZEBOV vaccine.

The Center of Excellence for Emerging and Zoonotic Animal Diseases is a U.S. Department of Homeland Security Center of Excellence established in 2010 at Kansas State University's College of Veterinary Medicine.

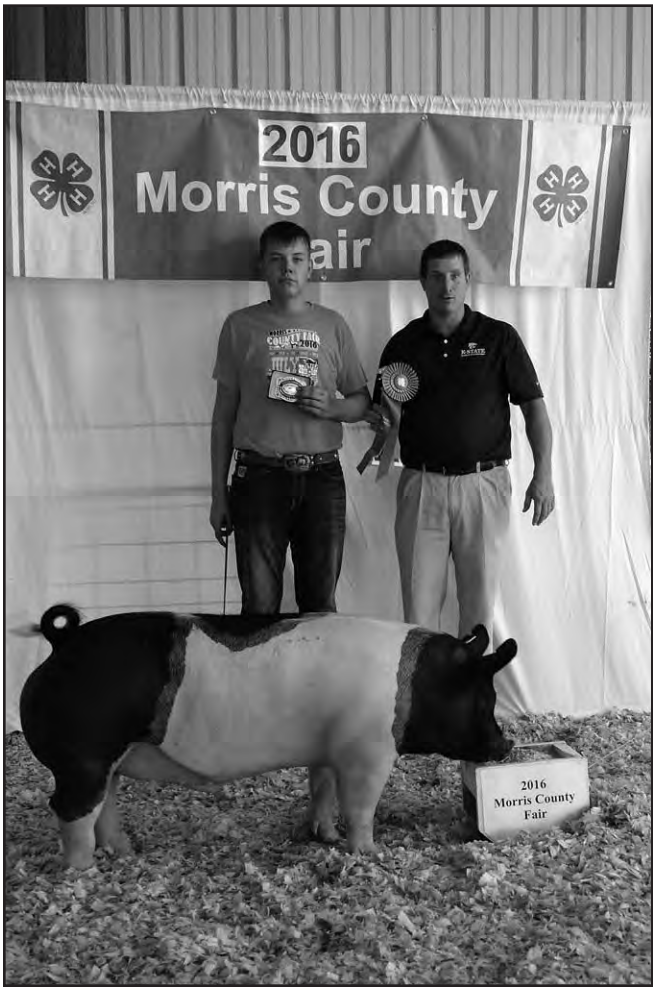
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			BURCHARD,NE	1 RED COW		1,310@\$72.00		
			MARYSVILLE	1 WF COW		1,560@\$72.00		
			SUMMERFIELD	1 BLK COW		1,270@\$71.00		
			BEATTIE	1 HOL COW		1,405@\$69.50		
			BREMEN	1 BWF COW		1,100@\$68.00		
			FRANKFORT	1 BLK COW		1,145@\$68.00		
			BAILEYVILLE	1 HOL COW		1,320@\$67.50		
			FRANKFORT	1 XBRD COW		1,130@\$67.00		
			BREMEN	1 BWF COW		1,095@\$64.00		
			BLUE SPRINGS,NE	1 WF COW		1,270@\$64.00		
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			WATERVILLE	1 XBRD BULL		1,575@\$100.00		
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			60 BLK HFRS	900-925#	WV			
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			EARLY CONSIGNMENTS FOR 8/25/2016					
			10 BLK 1ST CALF HFRS - CALVE SEPT. 1					
			7 BLK COWS - CALVE SEPT. 1RUNNING AGES					



Wyatt Buchman drove the grand champion market hog at the Morris County Fair, as selected by judge Joel DeRouchey.



Morris County Fair's reserve champion market hog was shown by Colton Bacon, showh with judge Joel DeRouchey.

Managing beef cow margins: grazing cost

By Derrell S. Peel,
Oklahoma State University
Extension Livestock
Marketing Specialist

Cow-calf revenues have decreased dramatically in the past few months and are expected to remain lower for the next couple of years. Producers must focus more attention on cost management to help maintain net returns in this environment. A reasonable question to ask is: Don't producers always attempt to minimize costs in order to maximize profits? The answer is generally yes but the fact is that there are ways to manage costs that require more effort and intensive management and may not be routinely employed or may not have been previously used by a producer.

Information from Kansas State University www.agmanager.info/livestock/budgets/production/beef/FeedCosts_2015.pdf indicates that total pasture plus non-pasture feed costs represent 45-50 percent of total annual cow costs. Non-pasture cost includes both harvested forages and supplemental feeds. Total feed

cost is the single largest component of annual cow costs and arguably the best opportunity for cost management.

The breakdown between pasture and non-pasture costs is particularly useful because it focuses on the forage, which is the primary production of cow-calf and stocker operations, and the management of that grazing resource compared to the use of harvested forages and supplemental feed to augment the quantity and quality of grazed forages. Often tradeoffs are possible in the efficient use of grazed forage compared to the use of more expensive harvested forages and purchased supplemental feeds.

Of course, all of this takes place against the backdrop of herd nutritional management as an important component of herd health, reproductive efficiency and overall productivity. Both feed quantity and quality are critically important in herd nutritional management.

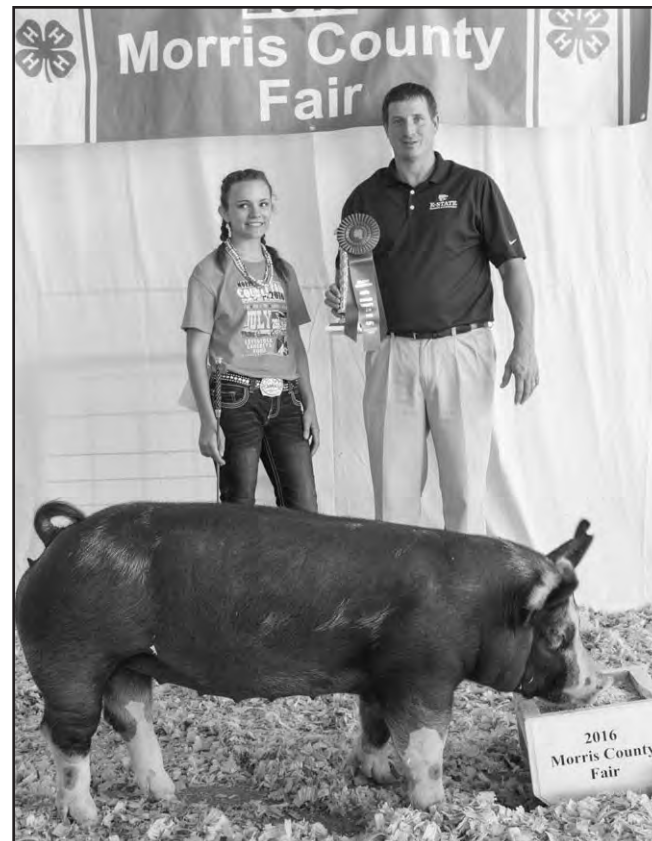
In order to evaluate and make good decisions about feed management and the

tradeoffs between grazing and non-pasture feed costs, it is critical to know the cost of grazed forage. Published pasture rental values in Oklahoma provide a means to understand the cost of grazed forage. A wide variety of pasture types are used in Oklahoma including native range as well as introduced warm season forages such as Bermuda or old world bluestem and cool-season grasses such as fescue and ryegrass.

When differences in rental rates, stocking rates and grazing season length are accounted for, the cost of grazed forage is very consistent across forage types at about 1.5 cents per pound of grazed forage. Thus, grazed forage costs about \$30/ton. For a cow eating 30 pounds of forage per day, this is \$0.45/head/day. The grazing season reported for pasture rental is roughly 270 days for warm season grasses; less for cool-season forages. However, combinations of warm and cool season forages, and delayed grazing on stockpiled pastures can extend the grazing season by 30-60 days. Again,

the key is increased management in the form of planning pasture use, deferment and fertility (for introduced grasses). Forage alternatives, such as grazing small grain (e.g. wheat) pasture, winter annuals (radishes, turnips, etc.) and including more legumes in introduced pastures may significantly impact seasonal forage quantity and quality and should be evaluated to determine feasibility in specific situations.

Understanding pasture value also highlights decisions about pasture management. In situations where invasive species, such as eastern red cedar, have a direct impact on available forage, the value of control, or alternatively, the cost of not controlling the loss of grazing to these pests becomes much clearer. When hay is used to replace grazing, the cost is always higher. A future article will look at hay costs in more detail.



Makenzie Downes drove the grand champion breeding gilt at the Morris County Fair. She is shown with judge Joel DeRouchey.

Summit on Agricultural Growth to be held Aug. 30

Leaders from across the state will focus on the future of agriculture this month as the Kansas Department of Agriculture will host the 2016 Kansas Governor's Summit on Agricultural Growth on Tuesday, August 30, from 8:30 a.m. to 5:00 p.m. at the Manhattan Conference Center. Agriculture is the state's largest industry, employer and economic contributor and plays a critical and strategic role in overall statewide economic growth.

The Summit will provide participants the opportunity to connect with other Kansas agriculture leaders and discuss strategies to help ensure agriculture remains a vital foundation of the Kansas economy. Sessions at the Summit will build upon the more than 200 meetings already conducted with industry partners throughout the state to identify key opportunities for future success in agriculture.

"Kansas farmers and ranchers feed the world and at the same time work hard to preserve our state's natural resources," said Kansas Governor Sam Brownback. "This summit will serve a critical role in ensuring the future strength of Kansas agriculture, as we encourage growth and increased opportunity for the farmers, ranchers and agribusinesses of Kansas."

Topics addressed at the Summit will include nearly all agricultural sectors in Kansas, ranging from beef and wheat to specialty crops and UAS. In addition, discussions will occur on transportation, access to capital, barriers to entry, consumer awareness and community acceptance of agriculture, international trade, water and natural resources, and workforce development. The Summit will be crucial in the prioritization of goals and initiatives to encourage strategic development in agriculture throughout Kansas.

Participation in the Summit is free and open to the public, but registration is requested. Register by August 22 to guarantee lunch. A block of rooms is

available at the Hilton Garden Inn; call 785-532-9116 by August 12 to reserve a room.

More information about the Summit, including a link to the registration site, can be found at agriculture.ks.gov/summit. If you have questions about the

Summit, call KDA at 785-564-6700 or e-mail mary.soukup@ks.gov.



ESTATE AUCTION

SATURDAY, AUGUST 13 — 9:30 AM
KULL AUCTION PAVILION, 201 SE 59TH ST. TOPEKA, KS



Note: This is only a partial listing, more equipment arriving daily. This is an absolute auction, no reserves, no minimums!
2007 32' Coachmen Spirit of America pull behind camper w/2 slides; 1994 Ford Bronco XLT 2dr w/ snow plow; 1993 Isuzu Tilt Cab w/snow plow and material spreader; 1946 2N Ford tractor; '70-'75 Oliver - White rough terrain fork lift, 16' fiberglass tandem axel enclosed trailer; (3) 16' & 18' tandem axle trailer; Dixon Zero Turn mower, mdl DK35513, runs great, John Deere front mower, mdl F935; John Deere 3 point 60" Hydro Cut mower deck; John Deere lawn tractor, mdl L110; John Deere Zero Turn mower, mdl Z425; Case 220 Hydraulic drive lawn tractor, 10 hp, lots of attachments; Schaben Industries 50 gal sprayer, trailer mounted, 7' boom; J.D. garden trailer; J.D. lawn sweep w/ bag; 8hp chipper/shredder; Eager Beaver 85 hp. diesel chipper/shredder; Cosmo 500 3pt spreader; Land Pride 60" 3pt Tiller; Craftsman 10" radial arm saw; Puma 5 hp. air compressor; Miller Matic 200 wire feed welder; Miller Thunder bolt 225 arc welder; Miller Syncrowave 250 arc welder; Miller Maxstar 152 arc welder; Acetylene torch set w/bottles and cart, like new! Lincoln Ac-225 arc welder; Hawk Power HPE5800 generator; (2) Stahl chain saws; Troy-Bilt tiller/edger, mdl 12216, Honda engine; (2) John Deere 3pt aerators; Spike tooth drag; J.D. disc; J.D. manure spreader; Rigid 14" band saw; Delta 14" floor drill press; Yard Machines rear tire tiller; Sears 10" table saw w/stand; Central Machinery 8" drill press; Chicago Electric 14" cutoff saw; Dewalt radial arm saw; Rigid Joiner; Craftsman 12" band saw; Thunder Bay 43CC one man auger; Craftsman 12" lathe; Craftsman 16" direct drive scroll saw; Knaack 5'x2' Job Box; Powermatic table saw; Topflight 5 spd snow blower; Wonder concrete mixer and much more.

Terms, Conditions & Removal: Cash, Visa/MC, Disc., 10% buyer's premium, cash, 12% credit card, 15% online. All equipment sells "as is, where is." All sales final.

OPEN FOR INSPECTION: FRIDAY, AUGUST 12, 1-6PM

**ESTATES OF WAYNE CASEBEER,
FRED MCCONNELL & OTHERS**



Kull Auction & Real Estate Co., Inc.
201 SE 59th ST. Topeka, KS.
785-862-8800
www.KullAuction.com

MOVING AUCTION

SATURDAY, AUGUST 20, 2016 — 9:00 AM SHARP!

(PREVIEW FRIDAY AUG. 19 FROM 4-7 PM)

Auction held at: Jefferson County 4-H Fairgrounds, 605 Ratz St. • VALLEY FALLS, KS

NOTE: PRE-AUCTION ONLINE ABSENTEE BIDDING HAS BEGUN AT:

www.ucnortheastkansas.com

NOTE: EQUIPMENT & VEHICLES WILL NOT SELL BEFORE 11:30.

TRACTORS, FARM EQUIPMENT, & FUEL TANK: 1965 JD 3020 Diesel Tractor, 189 Hrs. on a complete overhaul, single hyd., good rubber, new paint, front weights, SN T113R074266R, NICE tractor; 7'-Howse 3-pt. rotary mower; JD 830 Diesel Tractor (fixer upper/parts tractor only); 2012 Travelong 24' gooseneck cattle trailer, (2) center gates; 24'-Redline pasture harrow; 300-gal. Scharen 28' sprayer, booms/boomless/or hand sprayer options; 15' Rhino fold up rotary mower; 4-wheel metal running gear farm wagon with new 8'x12' floor; Diamond C tandem axle bumper hitch trailer, good 20' deck and 2' dove tail; 1,000-gal fuel tank on 12' skids, w/elect. pump, used for diesel fuel; (2) 3-point bale spears; 110 gal diesel tank; 4'-pull behind trailer; (6) John Deere suit case weights; 3020 John Deere weight brackets; front weights for JD utility tractor. Good 8' pickup bed trailer. (2) Clam shell John Deere tractor fenders; misc. JD filters.

VEHICLES, ATV, TILLER, ETC: 2004-Artic Cat 500 4 X 4; manual shift, 922 hrs.; 1993-Ford F250 ext. cab, 2WD, 351-V8, AT-PS-PB-PW, nice PU; 2004 Toyota Sienna van, 3.3L V6, 198k; Old primitive F & H riding mower (not running); Troy Bilt 7-HP rear tire tiller; Mantis tiller.

JOHN DEERE SKID LOADER: 2012-JD 320 SKID STEER, diesel, heat & AC, joy stick, 1122 hrs., super nice clean machine.

LIVESTOCK EQUIPMENT: Pearson Livestock squeeze chute; (4) HD big bale feeders (good condition); (4) 10' & 11' feed bunks; (2) 110 gal oval water tanks; 6' pipe gate, 10' 6" walk thru gate; 16'x7' sorting pen w/divider gate; portable loading chute, metal w/ wood floor; 2-all metal feed bunks, 12'; 3-mineral feeders; (4) 20' pipe fence panels; (2)12' pipe panels; calf creep feeder; 4-wire hog panels; (2) wire cattle panels; 10' wire gate; 11' pipe gate; (7) 12' interlocking corral panels; approx. 60 steel posts; approx. 27 elect. (plastic) fence posts; (2) 4' oval water tanks; Zareba 100 mile elect. fence charger.

CONSTRUCTION MATERIAL: Approx. (18) pcs 14' channel iron & (9) 7' pieces; approx 30-hedge posts; 8 hedge corner posts; Approx. (70) sheets of colored metal roofing from 6' to 16'; valley tin; (3) sheets of 4'x12' steel decking; approx (20) sheets of used corrugated roofing; 6'x12' HD 3-tier pipe rack; 2" used lumber (good); 10'x10' insulated garage door &

track; approx. (50) good 6" barn boards; car siding.

SHOP EQUIPMENT & TOOLS:

Portable air compressor, Honda gas engine; Bosch 12" miter saw; Makita 18V impact & drill; Makita 18V saw; DeWalt 20V drill & impact; DeWalt 20V sawsall/drill; DeWalt 7 1/4" circular saw; (2) Paslode framing nailers; (2) Hitachi roofing nailers; (2) Hitachi siding nailers; Milwaukee sawsall; Milwaukee hammer drill; (2) Stingers hand staplers; Hitachi stapler & brad nailer; Kreg pocket hole jig; 4" belt sander; jig saw; Paslode 16ga. utility stapler; palm sander; Porter Cable sander; Efco 18" and 20" chain saws; LM30 rotary laser w/tripod; Excell 2500 6.5 HP power washer; Efco gas weed eater; (2) 6' HD fiberglass step ladders; (2) 8' & (1) 10' HD fiberglass step ladders; 14' alum. ext. ladder; 24' alum. walk board; 10' alum. walk board; Lincoln SP-135 wire feed welder w/bottle & cart; 3/4" socket set; 3/4" Snap On ratchet; 6" bench grinder; jack stands; concrete tools; roof and ladder jacks; Rigid 10" table saw; 5' HD work bench; Porter-Cable saw; assortment of new bolts; wood auger bits; nice wood working table w/vises; engine stand. and much more.

HOUSEHOLD & RELATED:

Turkey fryer; storage shelves; 67" pine hutch; primitive wood cabinet; 2-wood rocking chairs; 4' bench; Cabelas 1-HP meat grinder (like new); Nesco elect. meat slicer; Singer 2263-sewing machine; 3-piece full size bedroom set; barn wood book case; Hickory end table/magazine rack; Hickory rocking chair; La-Z-Boy rocker/recliner; (2) four drawer chest of drawers; 3-drawer chest of drawers; glider rocker; Kenmore HD washing machine; Maytag propane/gas dryer; 3/4 oak bed w/ side rails; brass bed frame; lots of kitchen & household miscellaneous.

MISCELLANEOUS: 12" & 14" saddles; halters, lead ropes etc.; WOW-3-sections of very old ornate iron fencing, 1-8' & 2-5'; 8-steel implement wheels; old pulleys; 3-point seeder; (2) 16" tires; cream can; 2-wheel dolly; fan; pet carrier; Dodge Dakota roll up pickup bed cover; pull behind poly sprayer; 2-pieces exercise equipment; several crocks; Schuester spring buggy seat; old halter w/4-brass US rosettes; wood hames; (3) 9' cherry wood doors; nice 10' wagon box w/end gate (no running gears); several metal lockers in good condition; and more.

SELLERS: ROGER & DEBRA MILLER

Consignments from MIKE & DEB NICKELS

Auctioneer's Note: The Millers have sold their beautiful home/land and are moving out of state. This is an EXTREMELY clean offering. Nearly everything is in great condition. Plan now to attend. You will not be disappointed. We look forward to seeing you.

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Trade visit to demonstrate U.S. wheat competitive advantages to Venezuelan millers

Quality control and purchasing managers from three Venezuelan flour mills visited North Dakota, Nebraska, Kansas and Ohio July 31 to August 6, 2016, to learn more about the value of working with the U.S. wheat supply chain. With funding from USDA's For-

eign Agricultural Service, U.S. Wheat Associates (USW) is sponsoring this trade team in cooperation with the North Dakota Wheat Commission, Nebraska Wheat Board, Kansas Wheat Commission and Ohio Small Grains Marketing Program.

Chad Weigand, USW Assistant Regional Director for Mexico, Central America and the Caribbean, said U.S. wheat exports to Venezuela are not as strong as they once were, in part because increased government intervention and limited access to U.S. dollars have forced millers there to make cost a primary buying decision.

Participants on this team represent some of the largest mills in Venezuela, but they do not have significant knowledge of U.S. wheat quality, its marketing system or federal inspection services.

With the advantage of proximity to U.S. Gulf ports, Venezuela was a relatively stable buyer of U.S. wheat

for many years. In fact, U.S. Wheat Associates (USW) helped establish ESLAMO, the Latin American Flour Milling School. In recent years, the deteriorating political climate and economy and the resulting challenges of providing trade service and technical support have eroded U.S. wheat's share of Venezuela's market. Yet the customers there still represent a good market with potential to grow should the country stabilize. The pivotal question became how to stay engaged with them.

"With key decision makers like these, we have to demonstrate why performance and value is worth more, but it is very difficult for our staff to conduct ac-

tivities in Venezuela," said Weigand. "By coordinating with our state wheat commissions, however, we can bring these customers to the United States to see our production and export system at work. That first-hand experience will help increase their confidence in U.S. wheat."

Kansas stops for the team include observing advanced wheat research and breeding methods at the Kansas Wheat Innovation Center. In addition, participants will learn about educational programs and short courses at the IGP Institute.

"Having the Venezuelan team here is an exciting opportunity for Kansas farmers," said Justin Gilpin, CEO of Kansas Wheat. "A little under half of the Kansas wheat crop is exported every year, so it's vital that we maintain relationships with our customers around the world, big or small. Seeing the quality of U.S.

wheat, and getting first-hand experiences with the wheat industry, creates value with these buyers which helps Kansas wheat stay competitive in the global marketplace."

USW is the industry's market development organization working in more than 100 countries. Its mission is to "develop, maintain, and expand international markets to enhance the profitability of U.S. wheat producers and their customers." USW activities are made possible through producer checkoff dollars managed by 19 state wheat commissions and cost-share funding provided by USDA's Foreign Agricultural Service. USW maintains 17 offices strategically located around the world to help wheat buyers, millers, bakers, wheat food processors and government officials understand the quality, value and reliability of all six classes of U.S. wheat.

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SALE EVERY WEDNESDAY IN EMPORIA, KANSAS AT 11:00 AM

620-342-2425 or 800-835-7803 toll-free • Fax: 620-342-7741

Date: 8/03/16 Total Head Count: 2071. COWS: \$78-84; \$71-77.75; \$70 & down, light test. BULLS: \$98-105.

HEIFERS		32 mix		871@132.75	
9 mix	482@150.00	12 blk	876@132.25		
13 blk	600@145.50	50 mix	875@132.10		
31 mix	696@144.10	13 blk	890@132.00		
11 blk	631@144.00	87 bwf	940@132.60		
14 blk	640@143.50	22 blk	962@129.75		
14 blk	697@141.50				
12 mix	604@137.00	8 blk	602@159.00		
13 blk	684@136.50	8 bwf	626@158.00		
7 blk	652@135.00	5 blk	650@147.50		
8 blk	673@134.50	36 bwf	746@149.85		
14 mix	677@127.00	32 mix	768@149.75		
7 mix	739@141.50	8 blk	729@139.00		
153 blk	790@141.25	28 blk	742@139.00		
68 blk	744@139.85	18 blk	775@137.00		
92 blk	765@139.75	114 bwf	851@145.60		
7 bwf	783@139.50	27 bwf	820@144.25		
22 mix	778@138.00	6 blk	878@142.00		
27 blk	725@136.00	44 mix	852@141.75		
111 mix	797@133.75	8 blk	800@136.00		
57 bwf	862@136.60	74 mix	911@140.85		
57 blk	859@136.10	51 mix	931@139.00		
28 blk	860@136.10	29 mix	901@138.25		
60 blk	804@136.00	53 mix	958@137.50		
23 mix	823@135.50	16 mix	953@136.25		
69 mix	828@135.25	16 mix	957@136.25		
25 blk	841@134.75	171 blk	944@136.10		
16 wf	899@133.25	20 blk	1045@134.75		
13 mix	861@132.75				

STEERS

EARLY CONSIGNMENTS FOR AUG. 10th:

- 30 blk red & Char strs, 675-725 lbs
- 67 blk red & Char strs, 750-800 lbs
- 50 blk red & Char strs, 825-875 lbs
- 45 blk red & Char strs, 900-975 lbs

THANK YOU FOR ALL OF YOUR CONTINUED SUPPORT! YOUR BUSINESS ALWAYS APPRECIATED!

For Cattle Appraisals Call:
 BRODY PEAK, 620-343-5107 GLENN UNRUH, 620-341-0607
 LYLE WILLIAMS, Field Representative, 785-229-5457
 WIBW 580 - 6:45 A.M. Thurs; KVOE 1400 - 6:30-6:45 A.M. Thurs. & Fri.
 emprialivestock.com



The reserve champion breeding gilt at the Morris County Fair was shown by Lakoddah Downes, pictured with judge Joel DeRouchey.

East Central FFA members receive State FFA Degree

A total of 60 students from the East Central District FFA were awarded their State FFA Degree at the 88th Kansas FFA State Convention, June 1-3, 2016, on the Kansas State University campus.

The State Degree is the highest honor the Kansas FFA Association can bestow upon its members. In order to achieve this award, members must meet the following requirements: have received their Chapter FFA Degree, been an FFA member and agricultural education student for at least two years, earned at least \$2,000 or worked 600 hours in their Supervised Agricultural Experience program, given a six-minute speech about agriculture or FFA, participated in eight different leadership activities, received a "C" average or better in high school and shown a record of outstanding leadership and community involvement.

The members who met these qualifications and their respective FFA Chapters from the East Central District are: from Anderson County: Trey Ahring, Lauren Egidy, Bryce Feuerborn, Ezekial Hermreck, Mitchell Highberger, Matthew Kirkland, Adam Kropf, Isaac Kubacka, Cassidy Lutz, Trent Lutz, Katie Lybarger, Zach Miller, Zane Phelps, Chase Ratliff, Madison Ratliff, Maci Rockers, Jacob Rundle, Grady Schuster, Garrett Scott, Ryan Wittman; Central Heights: Cade Hibdon; Jayhawk Linn: Grace Broyles, Jessie Carr, Brett Nation, Shelby Northcutt, Jordan Robinson, Wyatt Sandness, Allison Wakefield; Louisburg: Sara Guetterman, Megan Roy, Abigail Tucker; Marais Des Cygnes Valley: Leon Sluder; Mission Valley: Wyatt Anderson, Rebekah Cain, Cole Hodge, Emily Schwant, Clayton VanMeter; Ottawa: Zachary Kerns, Ellen Thyr; Paola: Michael Boehm, Mitchell Carpenter, Kyle Hendrickson, Chad Kinaman, Alexandria Rogers, Colton Wagner; Prairie View: Madison Gray, Trent Phelps, Jackson Thayer; Southern Coffey: Emma Lehmann, Marissa Luney, Kaitlyn Meats, Skyla Pankey, Ethan Stewart, Morgan Storrer, Weston Weers, Katelin Zlab; Spring Hill: Mallory Meek; Tonganoxie: Tracy Oelschlaeger, Savannah Reynolds, Blaze Taylor.

JC LIVESTOCK SALES INC.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

For the week of August 3, 2016:

STEERS		11		802		147.50		11		694		142.50	
2	403	180.50	44	788	147.25	23	661	141.00					
2	450	176.00	67	809	147.00	69	726	140.35					
10	525	175.00	65	903	145.25	4	736	139.75					
5	587	169.00	19	826	145.25	11	719	139.00					
9	604	165.50	124	945	144.75	8	738	134.50					
18	585	165.00	53	870	144.25								
12	615	162.25	59	999	138.25								
12	671	159.50											
9	688	158.00	3	352	172.00								
13	702	156.00	6	468	166.00								
21	713	154.25	4	535	153.00								
10	782	153.25	11	555	152.50								
60	749	153.00	7	591	150.50								
56	762	150.50	18	625	149.00								
21	781	148.00	27	649	147.50								

Top Butcher Cow \$80.00 @ 1,440 lbs.

Top Butcher Bull \$98.00 @ 1,795 lbs.

Bred Cows: No Test

Pairs: No Test

Fat Hog Top: No Test

Sows: No Test

Pigs: No test

CONSIGNMENTS FOR WEDNESDAY, AUG. 10:

50 Ang X wf strs & hfrs600-750 lbs

110 blk X strs900-1000 lbs

60 blk X hfrs775-800 lbs

PLUS MORE BY SALE DAY!

CONSIGNMENTS FOR WEDNESDAY, AUG. 17:

150 Blk X Strs850-925 lbs.

PLUS MORE BY SALE DAY!

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

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Radio Market Reports
 KFRM 550
 Tues. & Wed.
 8:00 am

Radio Market Reports
 KCLY-Fm 100.9
 Tues. 6:45 a.m.

CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

For the week of August 2, 2016:

STEERS		12		721		133.50	
1	278	195.00	15	808	130.50		
2	738	137.00	4	958	130.00		
4	813	128.00	9	964	128.25		
5	883	126.00	8	886	128.25		
3	1090	124.50	2	1085	126.00		
1 Hol	330	105.00					
1 Hol	360	103.00					
1 Hol	420	100.00					
2 Hol	720	81.00					

Top Butcher Cow: \$85.00 @ 1,680 lbs.

Top Butcher Bull: \$100.50 @ 1,960 lbs.

Bred Cows: No Test

Pairs: No Test

HEIFERS

5	271	184.00
2	400	159.00

SPECIAL ANNIVERSARY SALE: AUGUST 30

SHEEP & GOAT SALE: SEPTEMBER 3

NO SALE: TUESDAY, SEPT. 6
DUE TO LABOR DAY HOLIDAY!

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Field Day showcases Water Technology Farms

Recently T&O Farms, LLC, the first Water Technology Farm, hosted more than 200 attendees to demonstrate technologies implemented that focus on irrigating effectively from a depleting water source.

The Water Technology Farm concept was developed as an action item within the Kansas Water Vision which Governor Brownback called for in 2013 to address the state's water supply issues.

"It's time to be passionate about our opportunities in western Kansas. These types of technologies are vital to helping us preserve and extend the aquifer for as long as we can," said Gov. Brownback. "It's time to think about the aquifer as a bank account and having an account that you're passing on to your children or grandchildren."

Owner of T&O Farms, LLC, Tom Willis shared his vision for the three-year project as well as the future of water supply in western Kansas.

"My motivation is two-fold, not only do we have an ethanol business here, but I farm. I want to pass this farm to my son when he returns from serving our country," said Willis. "My goal for this three-year project is to prove it is possible to grow more with less and see this duplicated all over the aquifer."

Director of the Kansas Water Office, Tracy Streeter, was appointed to lead the



Attendees at the recent water technology field day saw demonstrations of technology designed to improve the efficiency of irrigation.

Water Vision Team. Two years ago the team developed the Water Technology Farm concept and knew it had to be based on public-private partnerships. The farm has 24 sponsors showing the drive for Kansans wanting to conserve water.

"This farm is a product of two action items in the Vision, Water Technology Farms and Water Conservation Areas, (WCAs)," said Streeter. "It is exciting to stand here today and say not only is this farm one of the three WCAs in Kansas but to also share to date these technologies have demonstrated the potential for a minimum of at least 3 inches of water conservation in the first year of this three year project."

Attendees heard comments and technical briefings from Jonathan Aguilar of K-State Research and Extension, Loren Seaman and Scott Schechter of Seaman Crop Consulting, Monty Teeter of Teeter Irrigation and Mike Meyer of the Kansas Department of Agriculture Division of Water Resources.

The technologies were also demonstrated firsthand to the attendees. Participants observed the irrigation systems in place, which includes four fields equipped with Dragon-Line™, a technology that delivers water and nutrients directly into the soil rather than spraying the whole

canopy and field, and four equipped with low pressure spray nozzles. Each field also has two soil moisture probes to sense the current soil moisture and if or when water application is needed. The systems are fully automated and link water use, groundwater levels and moisture sensor data.

Two other Water Technology Farms in Kansas are being created as well and others are planned for the upcoming 2017 growing season. For more information about the farms or WCAs visit the vision page at www.kwo.org.

Partners for Water Technology Farms include: T&O Farms, LLC, Kansas Water

Office, K-State Research and Extension, Kansas Department of Agriculture, Kansas Farm Bureau, Kansas Geological Survey, Teeter Irrigation, Conestoga Energy Partners, Helena, United Sorghum Checkoff Program, Kansas Corn Commission, K-State Mesonet,

Servi-Tech Expanded Premium Services, LLC, Seaman Crop Consulting, Horta, AquaSpy, CropMetrics, Hugoton, Southwest Groundwater Management District No.3, Netafim, Kansas Grain Sorghum Commission, Valley Irrigation and Presley Solutions



Grand and reserve champion dairy animal at the Morris County Fair went to Joey Carson. He is pictured with Judge Jarod Blackburn and his mother Crystal Carson.

Riverton FFA member wins State Proficiency Award

A member of the Riverton FFA chapter was recognized for having one of the best career development programs in the state at the 88th Kansas FFA State Convention, June 1-3, 2016, on the Kansas State University campus.

Craig Owens received a State FFA Proficiency Award in Agricultural Processing during the convention for outstanding accomplishments he has made in developing programs that will prepare him for a career in agriculture. This award is sponsored by Ag Processing, Inc.

The proficiency award program recognizes students for exceptional accomplishments and excellence in a Supervised Agricultural Experience (SAE) program. This program allows students to set goals and gain real-world experience in a chosen area of the agriculture industry.

Owens works for the Hutto Hay Company. He started by hauling hay on occasion after school, then he worked his way up to grinding feed for the company. In addition, he is helping with harvest, raking hay and servicing equipment. After quickly learning the ropes, he has also helped train new workers, increased his speed of efficiency and developed safe working habits. One of the challenges he has been faced with is learning feed ratios to get a healthy feed while retaining economic viability. Owens plans to continue working on the farm after graduation.

Craig's parents are Hank and Stephanie Owens. His advisor is Jacob Larison.

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100 red calves, 400-600 lbs., off cow; 40 blk str, 500-650 lbs., off cow; 10 blk calves, 450 lbs., off cow; 33 hfrs, 750-900 lbs.; 8 hfrs, 800 lbs.; 35 hfrs, 900-950 lbs.; 40 str, 800 lbs.; 30 blk red, 600(s) lbs.; 30 blk, 600-750 lbs.; 10 blk, 750 lbs.; 22 blk red, 700-750 lbs.; 20 blk, 700-750 lbs.; 23 blk Char X, 650-800 lbs.; 9 blk, 600-800 lbs.; 23 hfrs, 750-850 lbs.

SPECIAL SHEEP-GOAT SALE

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316-320-3212

Fax: 316-320-7159

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

Market Report - Sale Date 8-4-16. Head count: 3,861.

300-400 lb. steers, \$130-\$178; heifers, \$120-\$161; 400-500 lb. steers, \$125-\$178; heifers, \$117.50-\$153; 500-600 lb. steers, \$125-\$163; heifers, \$115-\$148; 600-700 lb. steers, \$120-\$161.50; heifers, \$115-\$146.25; 700-800 lb. steers, \$120-\$155.75; heifers, \$115-\$144.75; 800-900 lb. steers, \$117.50-\$146; heifers, \$115-\$139; 900-1,000 lb. steers, \$110-\$145; heifers \$110-\$132. Trend on Calves: Choice steer & heifer calves, \$5 to \$8 higher. Trend on Feeder Cattle: Feeder steers & heifers, \$5 higher. Butcher Cows: High dressing cows: \$72.50-\$84; Avg. dressing cows: \$60-\$72.50; Low dressing cows: \$45-\$60. Butcher bulls: Avg. to high dressing bulls \$90-\$102.50. Trend on Cows and Bulls: Butcher Cows, steady; Butcher Bulls, steady.

CONSIGNED FOR AUGUST 11 SALE Expecting 1,000 Head!

- 300 mix heifers, 750-800 lbs.
- 90 Char steers & heifers, 600-700 lbs.
- 150 heifers, 750 lbs.
- 40 open blk heifers, 850 lbs.
- 75 steers & heifers, 600-700 lbs.
- 75 butcher cows

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 for updated consignments: www.eldoradolivestock.com

Chris Locke (316) 320-1005 (H) (316) 322-0675 (M)
Steven Hamlin (602) 402-6008 (H) (602) 222-1199 (M)
Larry Womacks, Fieldman (620) 394-3273 (H) (620) 229-0076 (M)
Van Schmidt, Fieldman (620) 367-2331 (H) (620) 345-6879 (M)

Cattle Sale Every Thursday 11:00 AM

WASHINGTON COUNTY LIVESTOCK, LLC
Locally owned & operated
WASHINGTON, KS – PHONE 785-325-2243
Fax: 785-325-2244
* * Sale Every Monday at 1 PM * *
If you have cattle to sell, please call us anytime!
Don't Forget the Video as an option to market your cattle
View our live auctions at www.lmauctions.com
Manager: Matt Kruse, 785-556-0715
Fieldman: Terry Ohlde: 785-747-6554
View our website for current market report!
www.washingtoncountylivestock.com

Eureka Livestock Sale

P.O. Box 267 Eureka, KS 67045

620-583-5008 Office 620-583-7475

Sale Every Thursday at 11:30 a.m. Sharp

On Thursday, Aug. 4, we had 1427 head of cattle on a much higher market.

STEERS				HEIFERS			
4 blk	574@167.00	22 red Char	817@148.00	2 wfbw	333@175.00	19 mix	929@126.50
10 blk	627@165.00	6 bwf	873@145.50	17 bwf	619@154.25	6 wf	639@125.00
8 blk	618@163.75	11 blk	850@145.25	3 blk	463@153.50	3 bwf	335@185.00
7 blk	566@160.00	21 bwf	912@145.00	5 bwf	609@148.00	4 Brangus	731@135.00
73 bwf	733@160.00	70 bwf	920@144.00	10 bwf	604@145.75	3 Brangus	933@119.00
15 bwf	715@158.25	43 bwf	942@143.75	4 blk	669@143.50		
10 bwf	723@155.00	24 bwf	937@142.75				
8 blk	713@155.50	22 wf x	743@138.25				
9 bwf	737@154.50	17 wfx	920@129.00				
13 blk	632@154.50						
95 bwf	811@153.00						
110 bwf	816@151.90						
9 bwf	805@151.75						
4 bwf	784@150.00						
33 wfx	607@149.75						
86 red Char	834@148.60						

Butcher Cows: \$59-\$89.50, mostly \$75-\$83, \$2-\$3 higher.

Butcher Bulls: \$93-\$108, mostly \$98-\$105, \$2-\$3 higher.

BUTCHER COWS			
1 blk	1290@89.50	1 bwf	1570@86.00
1 blk	1170@88.50	2 blk	1335@85.00
1 blk	1480@86.00	2 Char	1205@83.50

EARLY CONSIGNMENTS FOR AUGUST 11:

- 600 Fancy mostly blk str & hfrs, 600-850 lbs, Fall calves, vac. but off the cow.
- 75 Fancy blk steers & hfrs, 450-600 lbs, vac. off the cow, a real nice run of Fall calves this week.
- 200 mixed str & hfrs, 700-950 lbs

EARLY CONSIGNMENTS FOR AUGUST 18:

- 225 blk red str & hfrs, 500-700 lbs, home raised, weaned on April 1 & double vac

SPECIAL STOCK COW SALE AUG. 18 AT 6 PM

- 125 Fancy blk & bwf Fall calving cows from 1st calf hefs to 9 yr old Bred to horned wf bulls & 1 Angus bull complete dispersal fom Mark Neville Estate.
 - 115 Fancy blk & bwf Fall calving cows 3-4-5 yr old bred to horned wf bulls or Angus bulls. Complete dispersal off Fall calving cows from Jacot Ranch
 - 25 blk bwf Fall calving cows 3-4 yr old start calving Sept. 1 bred to wf or Angus bull from Mills Cattle.
 - 20 blk bwf 1st calf hfrs w/calves at side. From Hendricks Cattle Co.
 - 15 blk bwf 1st calf hfrs start calving Sept. 1 bred to Angus bull. (big hefs.) from Roof Cattle Co.
- A real good run of Fancy Fall calving young cows or bred hfrs. Don't miss this sale! Call Ron at 620-750-0123

We appreciate your business!

Ron Ervin - Owner-Manager

Home Phone - 620-583-5385

Mobile Cell 620-750-0123

Austin Evenson- Fieldman

Mobile Cell 620-750-0222

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

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 64 Years!

****STARTING TIME: 12:00 NOON****

MARKET REPORT FOR TUESDAY, AUGUST 2, 2016

RECEIPTS: 429 CATTLE

STEERS				HEIFERS			
11 blk bwf str	653@162.50	9 char str	943@132.25	11 blk hfrs	564@154.25	7 blk red hfrs	541@149.50
2 bwf rfw bulls	507@158.00	6 hols str	988@88.50	2 blk hfrs	590@149.00	2 blk hfrs	590@149.00
3 rfw bulls	441@157.50			141 mix hfrs	788@140.60	2 blk hfrs	672@138.50
4 blk bwf bulls	537@156.50			4 blk hfrs	696@134.75	10 blk bwf hfrs	823@132.75
3 blk red str	601@152.50						
4 bwf str	720@152.50						
8 blk bwf str	743@149.00						
8 bwf rfw str	804@145.75						
9 mix str	806@142.75						
4 blk bwf str	748@141.75						

Dan Harris, Auctioneer & Owner • 785-364-7137

Danny Deters, Corning, Auct. & Field Rep • 785-868-2591

Dick Coppinger, Winchester, Field Rep. • 913-774-2415

Steve Aeschliman, Sabetha, Field Rep. • 785-284-2417

Larry Matzke, Wheaton, Field Rep. • 785-268-0225

Craig Wischropp, Horton, Field Rep. • 785-547-5419

Barn Phone • 785-364-4114

WEBSITE: www.holtonlivestock.com

EMAIL: dan@holtonlivestock.com

View our auctions live at "lmauctions.com"

Are three recent viruses emerging hog disease threats?

Recently, the number of calls and emails about growing pigs showing a wide range of neurologic signs of disease possibly related to three somewhat lesser-known viruses have increased. Veterinarians report growing pigs presenting symptoms that range from mild muscle tremors with mental alertness to lethargy and ataxia, with the most extreme cases progressing to paralysis and death. Reports of morbidity have been as low as 5% to as high as 20%. Case fatality rate has ranged from 30% to 100%.

Among the possible infectious causes are porcine teschovirus, porcine sapelovirus and atypical porcine pestivirus. Although these viruses are not new to the United States, historically confirmed cases

have been reported infrequently.

Porcine teschovirus

PTV is a non-enveloped, positive-sense single-stranded RNA virus in the genus Teschovirus of the family Picornaviridae. There are 13 known serotypes of PTV. Pigs can be co-infected with more than one serotype and PTV is commonly isolated in healthy swine. Highly virulent strains of PTV-1 can cause teschovirus encephalomyelitis. Less virulent strains of PTV-1, in addition to PTV-2, PTV-3, and PTV-5, are associated with Talfan disease (also known as benign enzootic paresis), a milder presentation of polioencephalomyelitis than teschovirus encephalomyelitis.

In teschovirus encephalomyelitis, fever,

anorexia, listlessness and locomotor ataxia can be seen prior to paralysis/paresis. Caudal ataxia leading to paresis or paralysis can be seen as early as two to three days post-infection. Commonly, death occurs three to four days after the onset of clinical signs, but recent suspected cases progressed quickly to death within 24 hours.

Abortion and SMEDI syndrome (stillbirth [S], mummified fetus [M], embryonic death [ED], infertility [I]) have been linked to the variety of reproductive disorders that can be caused by PTV serotypes. SMEDI syndrome is also seen with parvovirus infections, which more frequently cause reproductive disorders in conventional herds than PTV.

Porcine sapelovirus

PSV is a non-enveloped,

positive-sense single-stranded RNA virus belonging to the genus Sapelovirus in the family Picornaviridae. PSV is closely related to the genus Enterovirus and was previously classified as porcine enterovirus 8 (PEV-8). There are three species within the Sapelovirus genus: porcine, simian and avian. Pigs, monkeys and ducks are the only known hosts for each species.

Polioencephalomyelitis syndrome, characterized by ataxia and limb paralysis, with or without other clinical symptoms (diarrhea or pneumonia) is suggestive of PSV infection. A recently reported incident resulted in high case mortality within 24 to 48 hours. Like PTV, SMEDI syndrome has also been linked to the virus. Litters with few to several stillborn or mummified fetuses may be suggestive of PSV-induced reproductive disorder when no other more common cause is identified.

Atypical porcine pestivirus

A study by Arruda et al., published in 2016, identified an APPV from piglets with congenital tremors. This virus was closely related to a novel pestivirus reported in serum samples from pigs involved in a PRRS metagenomics sequencing study. Phylogenetic analysis showed the greatest similarity to a newly described pestivirus in bats in China.

Samples from growing pigs submitted to the Iowa State University Veterinary Diagnostic Laboratory for routine testing were screened for APPV RNA via RT-PCR and 6% (22/362) of the pigs tested positive. Also in this study, pregnant sows were inoculated with APPV (intravenous, intranasal and inoculation of fetal amniotic vesicles) in an attempt to cause disease. Inoculated sows farrowed pigs affected with congenital tremors while controls did not. APPV was also consistently detected in tissues from affected piglets via RT-PCR.

Just recently, an APPV was isolated from a pig with uncontrollable shaking coming from a herd in which approximately 700 affected pigs in the herd had died with no other diagnosed cause. Notably, this outbreak occurred in pigs five to 14 weeks-of-age, which is significantly older than piglets in which congenital tremors occur.

Help bridge the knowledge gap

There are significant knowledge gaps about the pathogenicity and epidemiology of these three viruses. The data from the veterinary diagnostic labs are yet to be analyzed to determine if the recent communications are part of an increasing trend or part of the more historic, sporadic out-

breaks. Although individual cases may seem to be isolated, sporadic incidents, they could be indicative of a more important emerging disease trend. This is why it's important that everyone who experiences an outbreak communicates it so the information can be aggregated to create a comprehensive assessment of the disease in question.

If you encounter any cases with clinical signs similar to these, keep these three viruses in mind as potential differential diagnoses. And, should the veterinary diagnostic lab discover that any of these three are the confirmed etiology, please let the Swine Health Information Center know by sending an email to shic@swinehealth.org or calling the center at 855-211-4333. Only aggregate information, not individual identifiers, would be communicated if a trend is identified. This will be a great help to the industry as a whole to understand if any of them are an emerging pathogen in the United States.

Posted under the Emerging Diseases tab of the Swine Health Information Center's website, www.swinehealth.org are fact sheets with more information about these viruses and information about SHIC financial support for additional diagnostic testing. The mission of the Swine Health Information Center is to protect and enhance the health of the U.S. swine herd through coordinated global disease monitoring, targeted research investments that minimize the impact of future disease threats, and analysis of swine health data. For more information, visit www.swinehealth.org or contact Paul Sundberg at psundberg@swinehealth.org.

Grass & Grain Weather Report

Seven Day Forecast

TUESDAY

Mostly Sunny

High: 94 Low: 73

WEDNESDAY

Mostly Sunny

High: 94 Low: 72

THURSDAY

Mostly Sunny

High: 97 Low: 73

FRIDAY

Mostly Sunny

High: 98 Low: 74

SATURDAY

Mostly Sunny

High: 100 Low: 75

SUNDAY

Mostly Sunny

High: 95 Low: 71

MONDAY

Partly Cloudy

High: 92 Low: 70

In-Depth Local Forecast

Today we will see mostly sunny skies with a slight chance of showers and thunderstorms, high temperature of 94°, humidity of 52%. The record high temperature for today is 108° set in 1918. Expect partly cloudy skies tonight with an overnight low of 73°. The record low for tonight is 53° set in 1913.

Last Week's Almanac

Date	Hi/Low	Normals	Precip
7/28	92/70	93/68	0.34"
7/29	86/66	93/68	0.00"
7/30	87/65	93/68	0.00"
7/31	90/69	93/67	0.22"
8/1	90/75	93/68	0.00"
8/2	87/77	93/67	0.00"
8/3	100/74	93/67	0.00"

Rainfall last week: 0.56"
Normal rainfall: 0.77"
Departure from normal: -0.21"
Average temp last week: 80.6°
Average normal last week: 80.3°
Departure from normal: +0.3°

Today's Local Outlook

Washington 93/72

Blue Rapids 93/73

Seneca 92/72

Clay Center 94/73

Manhattan 94/73

Wamego 94/73

Ogden 94/73

Junction City 95/74

Abilene 96/74

Council Grove 94/73

This Week's Sun & Moon Chart

Day	Sunrise	Sunset	Moonrise	Moonset
First 8/10	6:35 a.m.	8:28 p.m.	1:06 p.m.	Next Day
Tuesday	6:36 a.m.	8:26 p.m.	2:02 p.m.	12:17 a.m.
Wednesday	6:37 a.m.	8:25 p.m.	2:56 p.m.	12:51 a.m.
Thursday	6:37 a.m.	8:24 p.m.	3:51 p.m.	1:29 a.m.
Friday	6:38 a.m.	8:22 p.m.	4:44 p.m.	2:11 a.m.
Saturday	6:39 a.m.	8:21 p.m.	5:35 p.m.	2:58 a.m.
Sunday	6:40 a.m.	8:20 p.m.	6:24 p.m.	3:51 a.m.
Full 8/18				New 9/1

Local UV Index

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

Weather History

Aug. 9, 1878 - The second most deadly tornado in New England history struck Wallingford, Conn. killing 34 people, injuring 100 and destroying 30 homes. The tornado started as a waterspout over a dam on the Quinnipiac River. It was 400 to 600 feet wide.

Growing Degree Days

Date	Degree Days	Date	Degree Days
7/28	31	8/1	32
7/29	26	8/2	32
7/30	26	8/3	37
7/31	30		

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STARTING TIME 10:30 AM

Tuesdays

We sold 1619 cattle August 2. Steer and heifer calves were in good demand at higher prices. Feeder steers and heifers sold steady to \$6.00 higher. Cows and bulls were steady to \$5.00 higher.

STEER & BULL CALVES			
2 blk str	313 @ 190.00	19 blk/red str	811 @ 146.35
9 blk str	504 @ 165.00	108 mix str	823 @ 146.10
3 bwf str	425 @ 160.00	9 blk/bwf str	807 @ 146.00
4 blk bulls	454 @ 155.00	3 blk/red str	680 @ 145.00
3 hol str	362 @ 113.00	58 blk/red str	848 @ 145.00
STOCKER & FEEDER STEERS			
2 blk str	558 @ 160.00	55 mix str	856 @ 144.50
6 blk str	633 @ 160.00	60 blk/bwf str	949 @ 140.00
10 blk str	674 @ 157.50	30 blk/red str	896 @ 139.25
50 blk/bwf str	783 @ 153.60	5 blk str	906 @ 135.00
30 blk/bwf str	763 @ 152.50	61 mix str	947 @ 134.85
68 mix str	749 @ 152.25	10 blk/bwf str	937 @ 134.00
13 blk str	670 @ 152.00	HEIFER CALVES	
4 blk/bwf str	730 @ 152.00	1 blk hfr	360 @ 154.00
12 blk/bwf str	743 @ 151.50	1 blk hfr	400 @ 149.00
10 blk/char str	662 @ 151.00	2 blk hfr	520 @ 147.00
40 blk str	766 @ 152.60	1 blk hfr	465 @ 145.00
64 blk/red str	838 @ 150.35	5 blk/bwf hfr	523 @ 145.00
21 blk str	744 @ 150.00	1 bwf hfr	525 @ 138.00
9 blk/bwf str	646 @ 149.50	STOCKER & FEEDER STEERS	
63 blk/bwf str	827 @ 149.25	138 blk/bwf hfr	682 @ 148.50
8 blk str	763 @ 149.00	6 blk hfr	612 @ 141.00
60 mix str	781 @ 148.35	5 blk/bwf hfr	648 @ 137.50
58 blk/bwf str	782 @ 147.75	9 blk hfr	666 @ 136.00
3 blk str	633 @ 147.50	25 blk/bwf hfr	717 @ 135.75
4 bwf str	723 @ 147.00	3 blk hfr	602 @ 135.00
174 blk/char str	822 @ 147.00	4 blk hfr	709 @ 135.00
124 blk str	874 @ 146.85	4 blk/bwf hfr	706 @ 134.25

3 blk/wf hfr	612 @ 133.50	1 char cow	1330 @ 83.00	1 blk cow	1240 @ 71.00	BULLS	
4 bwf hfr	670 @ 132.50	1 blk cow	1330 @ 82.50	1 blk cow	1375 @ 70.00	2055 @ 101.50	
12 blk/red hfr	723 @ 132.50	1 brang cow	1080 @ 82.00	BRED COWS & HEIFERS		1 blk bull	1625 @ 97.00
9 blk/bwf hfr	812 @ 132.50	1 blk cow	1555 @ 81.50	2 blk cows	@ 1300.00	1 blk bull	2155 @ 96.00
2 blk hfr	780 @ 131.00	1 sim cow	1105 @ 80.50	2 blk hfr	@ 1300.00	1 blk bull	1980 @ 95.00
3 blk/bwf hfr	767 @ 130.50	1 char cow	1345 @ 80.00	1 blk cow	@ 1010.00		
COWS & HEIFERETTES				1 red cow	1155 @ 79.50		
1 char hfr	965 @ 118.00	1 red cow	1375 @ 79.00				
1 sim hfr	1110 @ 111.00	1 blk cow	1495 @ 78.50				
1 blk hfr	1035 @ 103.00	1 char cow	1365 @ 78.00				
1 bwf cow	1325 @ 87.00	1 blk cow	1230 @ 77.50				
1 blk cow	1480 @ 86.50	1 char cow	1195 @ 77.00				
1 brang cow	1285 @ 86.00	1 blk cow	1225 @ 76.50				
1 char cow	1565 @ 85.50	1 x-bred cow	1360 @ 75.50				
1 sim cow	1320 @ 85.00	1 bwf cow	1025 @ 75.00				
1 brang cow	1085 @ 84.50	1 red cow	1055 @ 73.50				
2 red cows	1250 @ 84.00	1 blk cow	1345 @ 73.00				
1 char cow	1595 @ 83.50	1 jers cow	1220 @ 72.50				
		1 limo cow	1530 @ 72.00				

CONSIGNMENTS FOR AUG. 16:

BRAINARD CATTLE CO.

- 250 Hereford hfrs, 700-800 lbs., off grass, no implants, OCV'd vaccinated
- 250 blk Char steers, 700-800 lbs., off grass

All the cattle above are vaccinated, no implants, PLUS MORE BY SALE TIME!

WATCH OUR AUCTIONS LIVE ON

DVAuctions.com

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

FOR INFORMATION OR ESTIMATES:

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

LELAND BAILEY . . . TOPEKA, 785-286-1107
LYNN REZAC . . . ST. MARYS, 785-456-4943
REX ARB MELVERN, 785-224-6765

Rezac

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