Agricultural organizations collaborate to provide producers fire and storm relief

Kansas Farm Bureau (KFB) is collaborating with the Kansas Department of Agriculture (KDA) and the Kansas Livestock Association (KLA) to coordinate resources and donations following the devastating wildfires and high winds on Dec. 15.

"We know Farm Bureau members of Kansas are willing and eager to help their fellow farmers and ranchers in need," says KFB president Rich Felts. "We know from past recovery efforts, disaster assistance is most effective if it's delivered quickly. That's why we're partnering with KDA and KLA to get information and relief to farmers and ranchers as fast as possible."

The KDA resource page is the best source for those wishing to help with hay and other supplies. The page also includes contact information for farmers and ranchers who need emergency hav or have livestock welfare questions.

KLA has created a relief fund for people who wish to make monetary donations. One hundred percent of the money collected will be distributed to affected producers, and KLA membership is not required to receive funds

The Kansas Forest Service estimates fires burned

nearly 400,000 acres in the state on Dec. 15. The largest fire charred approximately 365,000 acres in Russell, Ellis, Rooks and Osborne counties. Dubbed the Four County Fire, the wind not only fueled the blaze, it hampered firefighters from finding it initially.

"Hell would be the best way to describe it," says Russell County fire chief Dustin Finkenbinder. "The dust was so bad we couldn't see the fire. All we could do was rely on smell.'

Finkenbinder says the fire had burned about two miles by the time crews arrived on site before eventually growing ten to 12 miles wide. More than 24 hours after the initial call, he was still monitoring smoldering bale piles and other hot spots for embers that could ignite new fires.

State and local officials are still determining the impacts of these fires, though early reports suggest homes, outbuildings and livestock were lost in the flames.

Farmers and ranchers impacted by the fires should contact their local U.S. Department of Agriculture service center for information on federal programs and services to help with disaster recovery.

Federal disaster assistance available to eligible fire victims

USDA's Farm Service Agency (FSA) offers costshare and technical assistance following natural disasters, including those impacted by the recent wildfires. The Emergency Conservation Program provides payments for livestock cross fences, boundary fences, cattle gates, or wildlife exclusion fences on agricultural land. The Livestock Indemnity Program offers payments to eligible livestock owners for injuries and deaths in excess of normal mortality caused by eligible loss conditions, including wildfires. Producers must file a notice of loss within 30 days of the loss becoming apparent and file an application for payment by March 1, 2022. Photographs, video or veterinary records are suggested to help verify losses. Lastly, Emergency Assistance for Livestock Producers provides financial assistance for losses due to feed shortages, such as hay. Producers must file a notice of loss within 30 days of the loss becoming apparent and file an application for payment by January 30, 2022.

With all FSA disaster cost-share programs, it is essential that losses are properly documented with verifiable records in order to receive assistance. Please contact your local FSA office for more information on these programs.

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		0-834-1029 Foll-Free OF	STA FOLLOW FICE PH	ED BY		R FEED	DERS		11:	00 A.M				LIVESTOCK	MARKETING ASSOCIATION
Our CONSIGI	IMENTS ca	an now be vie —— ONI	wed after 12 I									the on	line s	subs	cription
		ld on Friday, De-	Manhattan	10 blk	557@159.50	Perry	13 blk	2	6	@1585.00	Holton	7 blk	5-6	5-6	@1160.00
		ge run of cattle	Council Grove	8 bwf	628@159.50	Holton	10 blk	2	7-8	@1550.00	Oskaloosa	4 blk	6	6	@1125.00
		local and out of	Elmdale	22 Cross	573@156.00 754@152.00	Washington	22 blk 7 blk	2 2	6	@1525.00 @1500.00	Alma Manhattan	4 blk 4 blk	3 3	5 6	@1125.00 @1125.00
		steers and heif-	Onaga Randolph	10 blk 7 bwf	733@152.00	Ottawa Washington	7 blk	2	0	@1500.00 @1485.00	Wamego	4 blk 6 blk	3-5	о 3-4	@1125.00
		stronger prices.	Alma	55 blk	724@150.50	Council Grov		2	6	@1405.00	Douglas, NE	5 blk	7	7-8	@1100.00
		eifers were sell-	Leavenworth	6 blk	701@150.00	Frankfort	3 blk	2	5	@1450.00	Clay Center	4 blk	4	5	@1050.00
		g to quality and	Lawrence	4 blk	690@149.00	Council Grov	e 10 blk	2	5	@1425.00	Oskaloosa	7 blk	7	5	@1000.00
		selling steady to	Council Grove	11 bwf	731@148.50	Council Grov	e 30 blk	2	5-6	@1350.00	Oskaloosa	6 blk	SS	5	@950.00
\$3 lower.			Frankfort	8 blk	575@148.00	Council Grov		2	4	@1300.00	1S ⁻	T CALF H		PAIR	5
	LVES — 32		Harveyville	4 blk	622@144.00		BRED						AGE		
Westmoreland	4 blk	488@220.50	Alma	8 Cross	750@143.00	Development	7 1.11		STG		Leonardville	10 blk	2		2085.00
Leavenworth	15 blk	465@211.00	Woodbine	6 Cross	693@142.00	Randolph	7 blk	3-5	6-7	@1675.00	Leonardville	30 blk COW/CA	2-4		@2050.00
Shawnee	57 blk 7 blk	500@209.00	Princeton Elmdale	6 blk 12 Cross	641@142.00 569@136.00	Dwight Dwight	16 blk 22 blk	3-4 3-4	7-8 5-6	@1600.00 @1560.00		COW/CA	LF PAI	AGE	
Manhattan Westmoreland	7 blk 9 blk	500@208.00 431@206.00	Lincolnville	12 Cross 16 blk	837@135.00	Wamego	22 bik 11 blk	3-4 4		@1550.00	Kansas City	20 Rd A	na		@2360.00
vvestinoreianu	JUK	401 @ 200.00	LINCOITVINE		007 @ 100.00	vvaniego		4	1-0	S 1000.00	Ranous Oity			-	02000.00

STEER CALVES — 325-550 LBS.		Harveyville	4 blk	622@144.00		BRED	COWS	5				AGE		
Westmoreland	4 blk	488@220.50	Alma	8 Cross	750@143.00			AGE	STG		Leonardville	10 blk	2	2085.00
Leavenworth	15 blk	465@211.00	Woodbine	6 Cross	693@142.00	Randolph	7 blk	3-5	6-7	@1675.00	Leonardville	30 blk	2-4	@2050.00
Shawnee	57 blk	500@209.00	Princeton	6 blk	641@142.00	Dwight	16 blk	3-4	7-8	@1600.00		COW/CA	LF PAIRS	
Manhattan	7 blk	500@208.00	Elmdale	12 Cross	569@136.00	Dwight	22 blk	3-4	5-6	@1560.00			AGE	
Westmoreland	9 blk	431@206.00	Lincolnville	16 blk	837@135.00	Wamego	11 blk	4	7-8	@1550.00	Kansas City	20 Rd A	ng 4	@2360.00
Olsburg	4 blk	383@204.00	Clifton	4 Herf	606@131.00	Holton	4 blk	2	7-8	@1550.00	Kansas City	15 Rd A	ng 5	@2325.00
Elmdale	15 blk	519@203.00	Lincolnville	4 blk	858@131.00	Wamego	21 blk	3-6	7-8	@1500.00	Kansas City	10 Rd A	ng 3-4	@2275.00
Valley Falls	5 blk	413@197.00	COWS & HEIFE	RETTES -	700-1,975 LBS.	Billings, MT	21 blk	3	5-6	@1500.00	Matfield Gree	n6 blk	4-6	@2225.00
Tampa	9 mix	422@195.00	Council Grove	11 blk	836@139.50	McLouth	8 blk	2-3	5-6	@1475.00	Adams, NE	6 blk	4	@2200.00
Olsburg	9 blk	517@195.00	Council Grove	1 Cross	700@134.00	Billings, MT	7 blk	5-6	5-6	@1425.00	Leonardville	4 blk	2-4	@2150.00
Tampa	7 mix	335@193.00	Perry	3 blk	935@129.00	Dwight	5 bwf	5	7	@1410.00	Lincolnville	6 blk	2	@2100.00
Frankfort	5 blk	548@190.00	Washington	2 blk	840@125.00	Wamego	55 blk	4-6	5-6	@1400.00	Adams, NE	9 blk	5	@2050.00
Valley Falls	9 blk	545@188.50	St. George	1 bwf	790@121.00	Holton	7 blk	5	5-6	@1400.00	Leonardville	11 blk	2	@2025.00
Olsburg	14 blk	533@185.00	Council Grove	1 blk	975@115.00	Dwight	8 blk	5-6	5-6	@1400.00	Adams, NE	5 Cross	5	@2000.00
Westmoreland	20 blk	549@181.00	Princeton	1 blk	1960@74.50	Washington	9 blk	2	5-6	@1400.00	Wamego	10 blk	4-5	@1850.00
STEER	S — 550-87	5 LBS.	St. Marys	1 blk	1640@68.00	HOlton	9 blk	4-5	7	@1375.00	Oskaloosa	5 blk	6	@1800.00
Leavenworth	10 blk	580@185.50	Council Grove	1 blk	1565@65.50	Billings, MT	8 blk	7-8	5-6	@1335.00	Leonardville	4 bwf	5-6	@1775.00
Tonganoxie	6 Cross	563@181.00	Westmoreland	1 blk	1625@64.50	Wamego	11 blk	4-5	5	@1325.00	Adams, NE	4 Cross	5-6	@1725.00
Manhattan	7 bwf	557@179.50	Waterville	1 blk	1490@63.50	Dwight	4 blk	5	6	@1325.00	Leonardville	6 blk	5-6	@1675.00
Onaga	4 blk	598@179.00	Alma	1 blk	1720@61.50	Oskaloosa	10 blk	5-6	5	@1300.00	Adams, NE	4 blk	6	@1675.00
Shawnee	83 blk	602@177.00	Waterville	1 blk	1515@60.50	Plainville	6 blk	5	5	@1250.00	Adams, NE	4 blk	7-8	@1625.00
Elmdale	26 Cross	587@177.00	Waterville	1 blk	1350@60.00	Wamego	4 Herf	3-5	5	@1200.00	Adams, NE	4 mix	8	@1575.00
Alma	6 blk	608@173.00	Westmoreland	1 blk	1325@59.00	Plainville	9 blk	4	5	@1200.00	Blue Rapids	4 blk	5	@1550.00
Manhattan	9 blk	610@172.00	Alma	1 blk	1375@58.50	Clay Center	5 blk	7	7	@1200.00	Leonardville	5 blk	SS	@1525.00
Cttnwd Falls	16 blk	627@170.00	Westmoreland	1 blk	1435@58.50									
Olsburg	6 blk	625@168.00	Green	1 blk	1470@55.00						ILE; N			(0)N
Harveyville	4 blk	566@168.00	Green	1 blk	1520@52.00									
Westmoreland	16 blk	642@167.50	Emmett	2 blk	1130@52.00	DECE	MBE	R 24	1. 2	2021 •	DECEM	BER	31st.	2021
Frankfort	14 blk	646@167.50	Lawrence	1 blk	1445@50.00									

afe and Blessed Christmas and

Frankfort	13 Cross	584@164.00	Meriden	1 blk			225@49.00	Wishing you a Sa
Coucnil Grove	10 bwf	664@164.00	Olsburg	1 blk		12	230@48.50	a Happy New Y
Elmdale	19 Cross	663@163.00	Frankfort	1 blk			200@48.00	
Shawnee	25 Cross	706@161.25	Frankfort	1 blk			235@46.50	
Harveyville	6 blk	630@161.00	Waterville	1 blk			465@45.00	EARLY CONS
Alma	40 Cross	714@161.00	Hesston	1 blk			300@45.00	
Manhattan	20 blk	649@161.00	Solomon	1 Cros	S		930@44.00	• 130 blk bwf strs & hfrs, weaned 9/
Woodbine	11 Cross	633@160.00	Oskaloosa	1 blk			90@40.50	• 90 choice blk & bwf strs & hfrs, we
Onaga	40 blk	744@156.50		S — 1,37	5-2,40			• 75 choice rep. blk bwf strs & repla
Council Grove	12 bwf	777@155.50	Leonardville	1 blk			925@84.00	• 55 blk, few Char cross strs, 825-87
Olsburg	12 blk	641@155.00	McLouth	1 blk			015@83.00	• 55 blk, few Char cross hfrs, 775-82
Randolph	7 blk	740@154.50	Leonardville	1 blk			300@82.50	• 36 blk strs (30) and hfrs (6) Spring
Elmdale	9 Cross	621@152.00	leavenworth	1 blk			875@81.00	
Onaga	10 blk	842@150.50	Meriden	1 blk			715@78.00	
Woodbine	8 Cross	739@147.00	Burlingame	1 blk			710@73.00	SPEC
Hope	51 blk	862@146.85	St. George	1 blk			595@72.00	
Manhattan	6 blk	683@146.00	Leonardville	1 blk			395@62.00	
Lincolnville	25 blk	866@145.50		BABY CA				Total and a state of the
Wamego	5 Herf	671@145.00	17 k	ok bwf Cross	6	2	250-525.00	WED., JAN. 12
Firth, NE	4 blk	722@145.00						BRE
Manhattan	6 blk	762@135.00	For our spec					• 30 big blk SimAng cross hfrs bred
	ALVES — 37		December 15					 18 F-1 bwf 1st calf OCV hfrs, pelvi
Shawnee	8 blk	407@186.00	and bred he					June 8 for 60 day calving period.
Frankfort	4 Cross	392@184.00	steady, along					 70 choice South Dakota origin Reg
Shawnee	55 blk	537@175.00	larger run of				• •	Pieper 13-17 calving ease LBW Re
Shawnee	30 blk	487@170.00	interest and		g acco	ordi	ng to size,	breeding shots, plus 1st rd Scour
Leavenworth	7 blk	460@167.50	type, and dis					• 40 big choice Blk 1st calf hfrs bree
Westmoreland	10 blk	466@167.50		BRED HEI				calving for 75 days. Current on all
Olsburg	9 blk	459@166.00	5		GE S		0.0050.00	
Wamego	6 blk	475@163.00	Perry			5-6	@2050.00	8 big Char 1st calf hfrs bred Red A
Westmoreland	4 blk	481@162.00	Ada	15 blk		7-8	@1950.00	15
Wamego	10 blk	532@161.00	Yates Center			6	@1910.00	• 10 Fancy Herf (7) & bwf (3) 1st cal
Elmdale	15 Cross	502@160.00	Perry	20 blk	2	7	@1900.00	calves worked.
Frankfort	4 blk	481@158.00	Ottawa	15 Red		7-8	@1875.00	
Westmoreland	4 blk	536@158.00	Ada	10 blk		7-8	@1850.00	• 80 blk & bwf cows, 3-5 yrs, bred A
Olsburg	7 blk	547@156.00	Yates Center	0		7	@1850.00	• 20 blk cows, 6-10 yrs, bred for Mar
Olsburg	8 blk	518@150.00	Ada	5 blk	2	7	@1825.00	• COMPLETE DISPERSAL OF: 48 b
Frankfort	7 bwf	520@150.00	Ada	15 blk		6-7	@1775.00	
Tonganoxie	5 Herf	518@146.00	Ottawa		2	5	@1750.00	
	RS — 550-87		Frankfort	6 blk		6-7	@1750.00	• 10 blk cows, 3-5 yrs, w/ Angus sire
Shawnee	7 blk	615@165.50	Frankfort	14 blk		6-7	@1685.00	• 60 blk, blk Baldy, Char (5), Red Ba
Frankfort	5 blk	550@165.00	Scandia	15 blk	2	7	@1650.00	side. Ang & SimAng bulls turned
Leavenworth	11 blk	557@164.00	Ottawa	10 blk	2	6	@1625.00	FOR A COMPLET
Woodbine	9 Cross	568@162.50	Yates Center	0		4-5	@1625.00	
Frankfort	8 blk	650@161.000	Perry	5 blk	2	7	@1600.00	VISIT OUR WEBS
Wamego	16 blk	591@160.50	Ottawa	16 blk	2	7-8	@1600.00	

ear, from our family to yours!

IGNMENTS FOR J

9/15, 1 rd shots, 500-750 lbs.

veaned Nov. 1, 2 rds shots, 550-700 lbs.

lacement quality hfrs, long wean., 2 rds shots, 600-800 lbs.

875 lbs.

325 lbs.

g & Fall weaned Oct. 15, Hinkson genetics, 500-700 lbs.



ed to LBW blk bull to start calving Feb. 15.

vic measured, Pregguard 10, bred LBW Ang bulls May 8 -

ed Ang 1st calf OCV bred hfrs. Bred to Tanner, Kniebel, & Red Ang bulls for Feb. 1 calving for 75 days. Current on all Ir Bos.

ed to Mytty In Focus & Final Answer Ang bulls for Feb. 1 all breeding shots, plus 1st rd Scour Bos.

Ang for Feb.-March calving.

ST CALF HEIFER PAIRS

alf hfrs w/ Red Ang sired Nov. calves by side. Cows &

BRED COWS

Ang for Feb. & March calving. Cows worked & poured. arch-April calving.

blk, few Red cows, 3-SS, bred Ang to start calving Feb. 7.

COW/CALF PAIRS

red calves by side, cows & calves all worked. aldy (4) cows, 6 yrs w/ mid July-Nov. crossbred calves by d in Dec. 1. Calves all worked.

TE AND UP TO DATE LISTING, SITE AT MCCLIVESTOCK.COM

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		FIEL	.D REPRESE	NTATIVES —			
	BRENT MILLER		TOM TAUL		BRYCE HECK		SAM GRIFFIN
	ALMA		MANHATTAN		LINN		BURNS
	785-765-3467		785-537-0036		785-348-5448		620-726-5877
	Cell: 785-587-7824		Cell: 785-556-1422		Cell: 785-447-0456		Cell: 620-382-7502
ALAN HUBBARD		DAN COATES		ANDREW SYLVESTEI	3	LARRY SCHRICK	
OLSBURG		BALDWIN		WAMEGO		EASTON	
785-468-3552		785-418-4524		785-456-4352		913-547-1315	
Cell: 785-410-501	1						
	OLSBURG 785-468-3552	ALMA 785-765-3467 Cell: 785-587-7824 ALAN HUBBARD OLSBURG	BRENT MILLER ALMA 785-765-3467 Cell: 785-587-7824 ALAN HUBBARD DAN COATES OLSBURG BALDWIN 785-468-3552 785-418-4524	BRENT MILLER TOM TAUL ALMA MANHATTAN 785-765-3467 785-537-0036 Cell: 785-587-7824 Cell: 785-556-1422 ALAN HUBBARD DAN COATES OLSBURG BALDWIN 785-468-3552 785-418-4524	ALMA MANHATTAN 785-765-3467 785-537-0036 Cell: 785-587-7824 Cell: 785-556-1422 ALAN HUBBARD DAN COATES ANDREW SYLVESTER OLSBURG BALDWIN WAMEGO 785-468-3552 785-418-4524 785-456-4352	BRENT MILLERTOM TAULBRYCE HECKALMAMANHATTANLINN785-765-3467785-537-0036785-348-5448Cell: 785-587-7824Cell: 785-556-1422Cell: 785-447-0456ALAN HUBBARDDAN COATESANDREW SYLVESTEROLSBURGBALDWINWAMEGO785-468-3552785-418-4524785-456-4352	BRENT MILLERTOM TAULBRYCE HECKALMAMANHATTANLINN785-765-3467785-537-0036785-348-5448Cell: 785-587-7824Cell: 785-556-1422Cell: 785-447-0456Cell: 785-587-7824Cell: 785-56-1422Cell: 785-447-0456ALAN HUBBARDDAN COATESANDREW SYLVESTERLARRY SCHRICKOLSBURGBALDWINWAMEGOEASTON785-468-3552785-418-4524785-456-4352913-547-1315

Grass & Grain, December 21, 2021

Kansas Hay Market Report

For the week ending December 11, hay market prices remained mostly steady for alfalfa and steady for grass hav, with movement still slow. Most producers believe folks have what they need until after the first of the year with the South Central region reporting there are a number of folks offering alfalfa hay for sale. The North Central-Northeast region and the Southeast region worry they will be short of alfalfa come spring due to the decimation earlier by army worms and stress from drought. The Southeast region has seen good to premium stock cow hay increase in both, demand, and price. Grass hay stores remains high with likely carryover into the 2022 hay year. According to the U.S. Drought Monitor for the week of December 7th, most of the region was unseasonably warm and dry with average temperatures ranging from 2 to 12 degrees above normal with the greatest departures observed in eastern portions of Colorado and Wyoming, Kansas, and Nebraska. Abnormally dry conditions (D0) remained at 27%, moderate drought (D1) remained at 13%, severe drought (D2) increased to near 6% and extreme drought (D3) remained at .60%.

Southwest Kansas

Dairy alfalfa, grinding alfalfa steady, ground and delivered steady, movement slow. Alfalfa: horse, premium small squares 260.00-280.00. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Stock or Dry Cow 185.00-195.00. Grinding alfalfa 180.00-185.00. Ground and delivered locally to feed lots and dairies, 195.00-205.00; Grass Hay: Bluestem, small squares 8.00/bale, 3x4's and 4x4's 85.00-95.00, large rounds 75.00/bale; Brome, none reported; Sudan: none reported; Wheat: large straw rounds 60.00-75.00. Corn stalks: large round 75.00 delivered. The week of 12/0512/11, 7,258T of grinding alfalfa and 275T of dairy alfalfa was reported bought/sold. *The average paid by feedlots on December 1 for alfalfa ground and delivered was \$200.13, down \$0.20 from the previous month, usage was 530T/day, down 9% and total usage was 15.905T.

South Central Kansas

Dairy alfalfa, alfalfa pellets, grinding alfalfa steady, movement slow. Alfalfa: horse, small squares 255.00-275.00. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Good, Stock cow, 170.00-180.00. Fair/good grinding alfalfa 160.00-170.00 delivered. Ground and delivered 185.00-195.00. Alfalfa pellets: Sun cured 15 pct protein 225.00-235.00, 17 pct protein 240.00-250.00, Dehydrated 17 pct 310.00-315.00. Grass Hay: Bluestem, large rounds 85.00-95.00, large squares 100.00-110.00. Brome: large round 100.00-105.00, large squares 110.00-120.00. Oat hay, good large rounds 120.00-125.00, good 3x4 squares 130.00-135.00. Sudan: large rounds 85.00-95.00. The week of 12/05-12/11, 8,117T of grinding alfalfa and 1,167.5T of dairy alfalfa was reported bought/sold. *The average paid by feedlots on December 1 for alfalfa ground and delivered was \$181.45, down \$1.85 from the previous month, usage was 287T/day, down 1% and total usage was 18,156T.

Southeast Kansas

Dairy alfalfa, grinding alfalfa steady, grass hay steady; movement slow. Alfalfa: horse or goat, 260.00-270.00. Dairy 1.00-1.05/point RFV. Good, stock cow 170.00-180.00, with an instance of premium stock cow 220.00-240.00. Fair/Good grinding alfalfa, none reported. Ground and delivered, none reported; Grass hay: Bluestem, small squares 120.00-130.00, good 3x3 squares 115.00-125.00, good, 3x4 and 4x4 squares 100.00-110.00, large rounds 70.00-85.00. Brome, good, small squares none reported, 3x4 to 4x4 squares 115.00-125.00, large rounds 85.00-95.00. Wheat Straw: 3x4 and 4x4 squares 60.00-80.00. The week of 12/05-12/11, 1,101T of grass hay was reported bought/ sold.

Northwest Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered steady, movement slow. Alfalfa: Horse or goat, small squares 300.00-400.00 delivered. Dairy, Premium/Supreme 1.05-1.10/point RFV. Stock cow, fair/good 175.00-185.00. Fair/good grinding alfalfa, 170.00-180.00. Oat hay, 3x3 square 135.00-145.00; Sudan, none reported. Wheat straw, large squares 75.00-85.00.

North Central-Northeast Kansas

Dairy alfalfa, grass hay steady, grinding alfalfa, ground/delivered steady to 5.00 higher, movement slow. Alfalfa: horse, premium small squares, 9.00-10.00/bale. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Stock Cow, 160.00-170.00. Fair/good, grinding alfalfa 140.00-150.00; Ground and delivered 165.00-175.00. Grass hay: Bluestem, small squares 6.50-7.00/bale, large 3x4 to 4x4 squares, 130.00-140.00 delivered, good, large rounds 90.00-100.00, Brome, small squares 7.25-8.00/bale, 3x4 to 4x4 squares none reported, large rounds 90.00.00-105.00; Wheat Straw: Small squares 5.00-6.00/bale, Large 3x4 to 4x4 squares 85.00-100.000. Certified weed free grass mulch large rounds, 80.00-90.00. The week of 12/05-12/11, 778T of grinding alfalfa and, 250T of dairy alfalfa was reported bought/sold.

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

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

*CWF Certified Weed Free

*RFV calculated using the Wis/Minn formula.

**TDN calculated using the Western formula. Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%). Guidelines are to be used with visual appearance and intent of sale (usage). Source: Kansas Department of Agriculture - Manhattan, Kansas, Kim Nettleton 785-564-6709.

Farm-to-farm comparison reveals increased profits via regenerative ag practices, improved soil health

Carroll, Ohio farmer David Brandt is a soil whisperer.

There's little doubt that His soil health pioneering techniques, advocacy and his willingness to share



his farming methods and discoveries are legendary in regenerative agricultural circles

In fact, he was dubbed "The Obi-Wan Kenobi of Healthy Soil," by former USDA-NRCS chief Dave White during the agency's nationwide soil health campaign, "Unlock the Secrets in the Soil," kick-off event at Brandt's farm in 2012.

Since then, Brandt's reputation has only grown.

In addition to operating his own farming operation, four years ago, he and a handful of other soil health pioneers created the non-profit Soil Health Academy to teach farmers and ranchers across the globe how to harvest the multiple benefits of transitioning from tillageand chemical-intensive conventional agriculture practices, to nature-mimicking regenerative agriculture practices

But many farmers remain unwilling or unable to make that transition.

"A major barrier to convincing more farmers to follow the regenerative path is deeply rooted in whether or not it can com-

pete with conventional agriculture when it comes to yield and profits," Brandt said.

To help directly answer that question, Brandt was commissioned by the Ohio Ecological Food and Farm Association to do a side-by-side comparison of conventionally farmed corn/soybean/corn rotation cropping system; a no-till corn/soybean/corn rotation cropping system; and a no-till with cover crops with a corn/soybean/ wheat rotation cropping system.

The study differed from traditional academic "test plot" research studies because Brandt's study featured working farms of significant acreagefarms that were in close proximity to one another. Brandt applied Ohio State's University's custom rate charts for costs associated with tillage and collected actual fertilizer and herbicide costs from the farmers participating in the comparative study.

"The objective was to see how the systems compared in terms of costs, yields and profit-peracre," Brandt said. "Yield has been marketed for desuccess. Money in the bank account is better than 'bushel bragging rights,"" he said.

In a three-year-period of time, the study showed that the no-till with cover crops and a corn/soybean/ wheat rotation system yielded more than a \$125 per-acre increase in profits over the no-till/no-cover-crops operation and more than a \$130 per-acre increase in profits over the conventional operation featuring tillage.

The study further revealed that although the per-acre profit of the wheat crop was significantly lower than both the corn and soybean crops when compared to the corn/soybean rotation systems, the added cropping diversity provided by the wheat crop boosted yield and profitability of the corn and soybean crops in the cropping system that featured no-till, cover crops and the three-crop rotation.

"The combination of lowering overall input costs by utilizing cover crops to make nutrients available to the cash crops and by adding additional cropping diversity appears

portantly, it clearly provides a profit advantage."

As president of the non-profit Soil Health Academy, Brandt hopes this study, and a growing volume of other comparative studies, will incentivize more farmers to consider the relative advantages of soil-health focused regenerative agriculture.

"Even without adding grazing animals, stacking enterprises or engaging in direct-to-consumer marketing efforts, the combination of soil health-enhancing practices like no-till, cover crops and increased cropping diversity, provides tangible bottom line benefits," Brandt said.

He said that although there is no "magic wand" for the economic challenges facing many of family farms, the study suggests there is a real and profitable path forward.

"We're increasingly seeing that once farmers begin making the regenerative agriculture transition, they realize monetary benefits quite quickly and those benefits increase over time," Brandt said. "The fundamental challenge is providing farmers with the knowledge and confidence they need to make that transitionsomething that SHA and our partners continue to work to address." The study's details are available online at www. walnutcreekseeds.com.



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cades as 'The be-all endall,' but profit per acre is the ultimate barometer of

to provide an additional improvement in soil function," Brandt said. "As im-



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Executive Director of the Huck Boyd Institute



Senator Bob Dole

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

The businesses downtown are active. The brick streets are quiet. Two schoolboys are walking home with their book bags. To the south, pickup trucks and livestock trailers are clustered around the sale barn. Downtown. a large 4-H clover is painted on the intersection of Main Street and Wisconsin Street. This is Russell, Kansas: Quintessential small-town America. The flags in this community are flying halfstaff today, because the citizens of this rural community are mourning their favorite son who served

his country his entire life. Robert J. Dole was born in Russell in 1923. His parents had modest means, operating an egg and cream business. Young Bob was a bright and athletic kid who went to the University of Kansas to play basketball. His studies were interrupted when World War II hit and he enlisted in the U.S. Armv

In 1945, as a second lieutenant, Bob Dole was leading his troops into battle in the mountains of Italy when he was struck by an enemy shell. When his fellow soldiers saw the extent of his injuries, they gave him a shot of morphine and used his own blood to write the letter M on his forehead so a medic would know that he had already been administered the drug and would not give him another shot which would prove fatal.

In the military hospital, his fever soared to nearly 109 degrees. It looked like he would not survive, but his life was saved by a new medicine, streptomycin, which was an experimental drug at the time. He pulled through but was despondent about losing the use of his right hand and arm. Bob Dole was sent to

a specialist in Chicago. This was a turning point. Dole later wrote, "(The specialist) inspired me to focus on what I had left and what I could do with it, rather than complaining about what I had lost." That doctor would perform seven surgeries on Bob Dole. In Russell, his friends and neighbors gathered money in a cigar box to help with expenses.

Dole went on to earn a law degree from Washburn University and came back to Russell to serve as county attorney. Here he encountered Huck Boyd, a small town weekly newspaper editor and Republican National Committee member from Kansas.

According to legend, Huck was returning home to Phillipsburg after a function late one night and was driving through Russell when he spotted one light on in the coun-

Grass & Grain, December 21, 2021 courthouse. Curious tv about who was working at that hour, Huck went in and found young county

attorney Bob Dole. Huck was impressed by the hard-working young war hero and encouraged him to run for office, which he did. Huck went on to manage the successful Dole campaigns that followed. He saw his protégé rise to become Senate Majority Leader and to win the Republican nomination for president.

Huck Boyd and Senator Dole maintained a lifelong bond. When Senator Dole was asked to speak at Huck's funeral, he was so emotionally moved that he couldn't steel himself to do so.

Senator Dole always maintained a bond with the people of Kansas. Tad Felts is a long-time radio broadcaster who also led the annual Phillipsburg High School senior tour to Washington D.C. In his forthcoming book, Tad

wrote of a time before cell phones when Senator Dole invited the 60 visiting students to come into his office and call home to their parents and grandparents. "It was a madhouse," Tad wrote.

Page 15

The Senator would walk through, ask who the students were talking to, pick up the phone and say hello to the folks back home. "I'm sure he earned a lot of votes that day," Tad wrote. Tad was highly complimentary of Senator Dole's accessibility to the students from Kansas.

Ninety-eight years have passed since Bob Dole's birth in this rural community of Russell, population 4,401 people. Now, that's rural.

The brick streets of Russell are quiet today. Folks in Bob Dole's hometown are fondly remembering their native son who succeeded on a national stage, yet never forgot that he came from rural Kansas.

More than 600,000 miles later, B100 runs straight through year+ pilot "Today, most diesel en-

B100 is one step closer to being a reality for commercial fleet operations thanks to the results of a pilot program that tested the fuel in five class-8 overthe-road trucks. The pilot, which was a collaboration among ADM, Optimus Technologies, Illinois Soybean Association. American Lung Association and the Missouri Soybean Merchandising Council, opens a pathway for significantly higher volumes of biodiesel in U.S. fleets moving forward.

gine manufacturers allow biodiesel up to B20 in their engines, but as we look toward the future and carbon reduction needs, we are looking for opportunities to run higher blends in this very necessary market," says Scott Fenwick, technical director of the National Biodiesel Board. "The Optimus Vector System, an after-market system, allows engines to run on almost entirely B100 fuel year-round. And, run they did.'

The program, partially funded through the sovbean checkoff, started in February of 2020 and ended in July 2021 with the five trucks totaling 623,922 miles during the trial.

The trucks used 73,186 gallons of B99.9, all being supplied through ADM's Mexico, Missouri, sovbean crush and biodiesel production facility, and ran in temperatures as low as -23F with zero operational challenges being reported.

"By using B100 in this study, we were able to reduce CO2 emissions by an estimated 1,376,048 lbs. and demonstrate the impact biodiesel can have on carbon reductions moving forward," says Colin Huwyler, CEO of Optimus Technologies. "The results of this study, including the fuel mileage parity observed by the drivers, continues to demonstrate a pathway forward for B100 in the commercial trucking sector."

The nearly 18-month project evaluated the Oplonger-haul over-the-road fleets. The system, already in use in shorter-mileage, local fleet applications, is expanding into long-haul. commercial fleets moving forward. The technology provides a cost-effective alternative to electrification for decarbonizing commercial fleets.

"Our U.S. supply chain depends on long-haul trucks and we don't see that changing anytime soon," says Steve Finn, VP of ADM trucking. timus Vector System in "This study helps give us

and other fleets the data they need to feel secure in implementing new fuel blends to add to their sustainability efforts without sacrificing efficiencies."

Technical data from the pilot includes fuel economy, performance and a look inside the engines themselves to evaluate emissions after treatment devices, fuel injectors and general wear. The official results will be released in 2022

"Winning-The-Game" Corn Marketing Workshop to be held Jan. 17 in Erie

By James Coover, Wildcat Extension District crop production agent

Southwind and Wildcat Extension districts will host a corn marketing workshop on January 17th from 9:30 a.m. to 2:30 p.m. at the Neosho Valley Events Center, 321 North Wood in Erie.

"Winning-The-Game"

Corn Marketing Workshop is a powerful and important program that is specifically designed to help farmers develop their marketing strategies. The workshop will focus on cost of production for price target strategies, seasonal price trends, and using mar-

and basis contracts, market hedging, and call/put options. This will be a hands-on workshop that is designed to directly help farmers get the best prices for their commodities. While this workshop will focus on next year's corn crop, the lessons learned will be applicaketing tools like forward ble to every crop in any

vear.

Local sponsorship for this program is provided by Farm Bureau agent Jason Gard. Registration fee is \$10 to help pay for lunch and materials. Register to attend by January 12th. Call 620-724-8233 or email jcoover@ksu.edu

An informational flver can be downloaded from the Wildcat District website at www.wildcatdistrict.k-state.edu

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





Take advantage of online **BQA training this winter**

(KBC) would like to highlight the online beef checkoff-funded Beef Quality Assurand certification is available at bqa.org be announced at a later date. for the convenience of producers whose BQA certifications are expiring this year. Online BQA certification modules are interactive and customized to meet the needs of each industry segment, including cow-calf, stocker, feed yard, dairy

As 2021 draws to a close and a new year and transportation for livestock haulers. is on the horizon, the Kansas Beef Council In addition, numerous in-person trainings are being planned for February and March of next year. Dates and training ance (BQA) training program. Training locations for in-person certifications will

Producers looking to learn

educational opportunities in the state, including the new virtual education video series created by KBC, can visit the "Beef Hub" on the KBC website.

Do I need to add minerals to my livestock ration?

By Wendie Powell, Wildcat Extension District livestock production agent

Winter supplementation often focuses heavily on meeting protein and energy requirements and tends to leave mineral nutrition as an afterthought. Missing the mark in any nutrient category, including vitamins or minerals, can have negative effects. All nutrients interact, so deficiencies in one element can create inadequacies of other nutrients. even if those nutrients are supplied in the correct amount.

During winter months, locally grown forages are typically the basis of cattle diets. The mineral content in the forage is based on the mineral content of the soils they're grown on, which can be highly variable because of the soil formation process from one region to another. Mineral composition can even change from one pasture to the next. To complicate the matter further, mineral content and availability are not the same thing. The digestibility of the forage impacts the availability. High-quality grasses that have high digestibility will have, not surprisingly, greater mineral availability.

Due the annual change in weather conditions,

mineral supplement strategies should be reviewed annually. Evaluate the mineral availability in forage, protein supplements and water. Feed and water testing are needed to fine-tune a formulation. While this involves upfront effort and expense to sample and measure mineral content, it has the potential advantages of improved animal performance, reduced costs by avoiding over-feeding mineral, prevention of unfavorable interactions or toxicity. Compare the results of your mineral testing to the requirement of your livestock to formulate an effective plan. The plan should fill in any gaps of deficiencies to make sure all interactions can happen as needed.

Interactions among minerals can be antagonistic, binding with each other and reducing animal availability. Sometimes an excess of one element has to be fed to overcome this binding. This can be a two-edged sword because extra minerals can cause toxicity. It's critical that needless supplementation is avoided to keep down costs and toxicity concerns.

Referring to forage mineral content, typically calcium levels are adequate and phosphorous levels tend to be deficient,

especially in mature forages. So, phosphorous supplementation is usually necessary. Some basic guidelines for winter mineral supplementation programs are:

• Always provide trace mineralized salt at a minimum.

• Supplement phosphorous when forage is dormant, unless distiller's grain is being used as a protein source.

• Supplement copper if symptoms are present, but be sure to monitor copper status to ensure deficiency is solved without reaching toxic levels.

• Because commercial mineral and salt products are formulated to meet generalized conditions, it is helpful to create a custom-blended formula to meet local deficiencies or toxicities of a specific ranch.

For more information, contact Wendie Powell. Livestock Production Agent, (620) 784-5337, wendiepowell@ksu.edu.



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health of animals helps awarded through the Naurdue Extension sets virtual program for beef producers

experts invite producers with fewer than five years of experience and individuals who are considering starting a beef cattle operation to join them for Purdue Beef Basics. The virtual program is scheduled for 5-7 p.m. Central time Tuesday evenings starting Feb. 8 and ending March 29.

Participants will gain

Purdue Extension beef knowledge and skills related to beef cattle management and establish good record-keeping habits. Purdue University professors and Extension specialists and educators will lead each of the eight sessions.

Session topics include: Overview of the beef cattle industry.

ities.

Beef cattle health. Forages and nutrition.

Beef cattle genetic selection and reproduction.

The registration fee is \$50 per individual. Register at https://tinyurl.com/ wwvba92w by Feb. 1. For more information, contact Nick Minton at 812-279-4330 or nminton@purdue. edu.

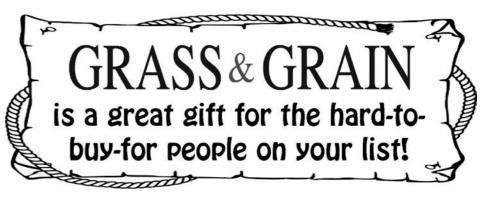
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Stockgrowers Council leadership finalized

KLA Stockgrowers Council Chair Kevin Schultz has announced his four appointments to the council's executive committee for 2021. Schultz appointed Jeff Johnson of Moran, Brady Larson from Leoti, Kenton Mangan of Tribune and Rossie Stephens from Grinnell to serve on the 11-member executive committee.

Other members elected to the executive committee during the 2021 KLA Convention in Wichita include Vice Chair Gene Barrett of Grantville, Jenny Giles Betschart from Ashland, Ed Durst of Morrowville, Daniel Mushrush from Strong City and Clint Sturdy of Lyndon. Lafe Wilson from Uniontown is the immediate past council chairman and will serve on the executive committee as well.

The Stockgrowers Council Executive Committee reviews and recommends policy priorities and positions on state and federal legislation, regulatory issues and special projects of interest to commercial cow-calf producers, seedstock operators, cattle backgrounders, farmer-stockmen, ranchers and landowners across Kansas.



Grass & Grain, December 21, 2021 Page 19 Pen-side test for bovine respiratory disease may sous-vide cooking in-spired an idea that took in the journal Water was published they know the pathogen The advantage of Pascual-Garrigos, who is - develop new prints

spired an idea that took promising technology out of the lab and into the barn. Researchers at Purdue University successfully developed an on-site bovine respiratory disease test that provides results within an hour.

The team of researchers has been steadily advancing the point-of-care technology to address the disease, which is the most common and costly disease affecting cattle in the world.

"We wanted to see if the technology is tough enough for the farm and how messy we could get," said Mohit Verma, assistant professor of agricultural and biological engineering, who led the research. "We weren't overly cautious with cleanliness because we want the test to be easy to use. Respiratory disease can quickly spread from animal to animal, and it can be devastating. Quick diagnosis leads to the proper treatment and reduces unnecessary use of antibiotics.'

The team also added an easy-to-read color change from red to yellow to indicate the test results, he said. A paper detailing in the journal Veterinary Research

"We've been working to improve our test to get it out of the lab and into the hands of farmers and veterinarians, and it worked very well in the field," Verma said. "One key to achieving this advancement was using a sous-vide water bath to maintain the temperature needed for it to work, around 149 degrees Fahrenheit. My brother was doing sous-vide cooking and the idea just clicked. It is something easy to bring to a farm, fill with water and allow the test to be run."

Bovine respiratory disease, or BRD, is responsible for half of all cattle deaths from disease in North America and costs the beef industry \$900 million annually, he said. Several strains of bacteria and viruses can cause the disease, which makes it difficult to effectively treat

"Some of the bacteria that cause BRD have become resistant to certain antibiotics," Verma said. "Unfortunately, because the standard test can take several days to provide a result, the farmers need to treat the cattle before

responsible. This can lead to use of an ineffective antibiotic or overuse of antibiotics.'

The technology created by Verma's team can identify three strains of bacteria among the top four that cause BRD: Pasteurella multocida, Mannheimia haemolytica, and Histophilus somni.

A nasal swab collects the needed sample, and the swab is put into a small vial with corresponding primers and reagents developed by the team that serve as biosensors for the bacteria. The vial and its contents. which is called an assay, are heated in the water bath to enable the chemical reactions. If the bacteria for which the test is designed is present, the assay changes color.

The technology tests for DNA from the bacteria and uses a method of nucleic acid amplification called loop-mediated isothermal amplification, or LAMP. When the bacterial DNA is present, LAMP amplifies it. As the level of nucleic acid increases. it changes the pH of the assay, which triggers the color change.

LAMP over other methods is that it does not require extraction and processing of the samples, which can be lengthy and expensive, and it produces results in under an hour, Verma said. Its results matched those from a polymerase chain reaction, or PCR, test 60%-100% of the time.

Ana Pascual-Garrigos worked on the project as an undergraduate student in biochemistry and is first author of the paper. Additional members of the research team and co-authors of the paper include Jennifer Koziol, from Purdue's College of Veterinary Medicine; Aaron Ault, from Purdue's School of Electrical and Computer Engineering; Timothy Johnson and Jon Schoonmaker from Purdue's Department of Animal Sciences; Deepti Pillai from Purdue's Department of Comparative Pathobiology; and Murali Kannan Maruthamuthu, Josiah Levi Davidson and Grigorii Rudakov from Purdue's Department of Agricultural and Biological Engineering.

"It was exciting to be working toward a product that could greatly impact the cattle industry," said now pursuing her Ph.D. at the University of Cambridge. "This research shows it is possible to have more point-of-care solutions around the globe.'

Verma and his team advanced the technology to this stage through a \$1 million USDA-NIFA grant. In a parallel project, Verma is using the same technology for a saliva-based test for COVID-19. The BRD technology is part of his startup company Krishi Inc. The startup received \$100,000 from the Purdue Ag-Celerator fund earlier this year.

The next step in their pursuit of putting the technology into the hands of veterinarians and farmers is to develop paper test strips. These strips could include multiple assays, such that one strip could identify the presence of several different pathogens. They also plan to apply the same approach to tests for other infectious diseases in cows and pigs, and to investigate the potential for detecting food contamination.

"This platform is very versatile," Verma said. "We just need to change the matrix we are using

- develop new primers and assays - for different pathogens. We are working to apply our technology to address other health issues, and we believe it has potential for quick detection of new viruses to help prevent global pandemics."

The preliminary research Verma's team conducted to obtain the \$1 million USDA-NIFA grant was funded by a startup Agricultural Science and Extension for Economic Development (AgSEED) grant. AgSEED was established through Crossroads funding from the Indiana legislature to foster the state's leadership in plant and animal agriculture and rural growth. Verma also received seed funding from the Disease Diagnostics INventors Challenge, created by the Purdue Institute of Inflammation, Immunology and Infectious Disease in partnership with the Department of Comparative Pathobiology, which contributed the funds to realize the pilot project; the Indiana Clinical and Translational Sciences Institute; and the Indiana **Consortium for Analytical** Science and Engineering.

Red Angus now eligible for Angus branded beef programs The Red Angus Association of America recently need which will benefit cow-calf producers, cattle feed-

completed negotiations with USDA on the breed's Live Animals Specification form or GLA Schedule. The result is Red Angus can now be included in Angus-labeled branded beef programs, at the request of each individual brand program.

Red Angus has always been "Angus," and USDA has officially acknowledged that fact by enabling Red Angus and Red Angus-influenced cattle that meet certain requirements to join black-hided animals in as many Angus beef brands as decide in favor of their inclusion. Both genotypic and phenotypic qualification criteria are contained in the new GLA Live Animal Specification Schedule, which can be viewed on the USDA website.

This change makes logical sense, as Red Angus cattle originated from the same Scottish gene pool as black Angus and are therefore genetically Angus. Beef demand is expected to remain high in 2022 and beyond, so the addition of Red Angus-influenced cattle to high-quality Angus-based branded beef programs fills a

ers, packers and consumers.

Adding Red Angus to existing Angus beef programs is a simple process - brand owners simply need to contact USDA and request the inclusion of the RAAA GLA Schedule as part of their program's live animal specs, then make associated minor verbiage changes in their own G-Schedules. RAAA can assist in this process, which in most cases, takes very little time to prepare, and is followed by a short correspondence period with USDA-AMS

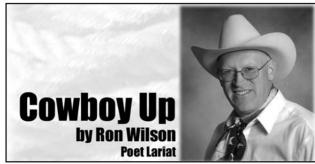
RAAA is pleased that USDA recognizes that Red Angus are genetically Angus and looks forward to working with many branded Angus lines in 2022 and beyond, and will support efforts to help these brands grow, both in quality and volume, to become even more successful.

For more information about Red Angus value-added programs visit www.RedAngus.org. Contact Brandi Buzzard Frobose, RAAA director of communications, for media inquiries at brandi@redangus.org or (785) 448-0239

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Grass & Grain, December 21, 2021



Yes or no? Bred or running have

open? Ship or save? These are the vital questions which hang in the balance. The rancher waits with bated breath as he watches the vet. Her brow is knitted with concentration as her arm is shoulder-deep in the rear end of the cow and her hand probes for new life. It's a big day at the ranch.

The cows are being pregnancy-checked to see if they are bred. They ran with the bull all summer and have now been gathered in. Calves have been weaned and worked. After a few nights of mournful bawling and complaining, the cows and calves have adjusted to their new place in life.

Then it is time to see if the bull has done his job. The veterinarian is scheduled. The head gate joints are greased. Working pen panels are checked and re-secured.

The day has come. The vet arrives and arranges her supplies. Cows are moved into the near pen and gradually sorted through the lane until they arrive at the pot. A big hinged gate squeezes the cows until they eventually recognize that their only pathway out is through the chute. The young cowboy nicknamed "Sure Shot" stands at the front and swings the lever at just the right moment so that the headgate shuts in time to catch the cow's shoulders. The cow is secure.

The cowboys - with a little help from Temple Grandin's work - have learned the benefit of low-stress cattle handling. Frenzied shouting and running have no place in this process. Generally, such things have the opposite effect of that desired. Instead, the old hands on the crew move the cattle easily and calmly through a series of lanes.

In the spring, there will be vaccinations and pouron before the cows go to grass. In the fall, the primary purpose is to see if the cow is bred or not. It is an important decision. Cows who did not "settle" or get pregnant when exposed to the bull are not worth carrying through the winter until calving time next spring.

So this is the ultimate test. Every cow is checked. The veterinarian puts on an OB glove, which is a clear plastic glove with a long sleeve that covers her entire arm and keeps it sanitary. She climbs into the chute behind the cow and puts a big glob of sanitary lubricant on the plastic glove. She inserts her

removing un-expelled manure as necessary. Then she reaches all the way in, flattening her hand. Once her arm is all the way in, she can feel if there is a live calf in the birth canal below.

hand into the cow's back end below the tail head.

"Can't you do an ultrasound like for human babies?" asks the city girl who's visiting. "Yes," replies the vet, "but when they're this far along, it's more practical to do it this way.'

"Preg-checking cows is my favorite procedure," the vet adds. "It is so cool to feel the baby calf."

Meanwhile, there are more cows waiting to be checked. They are inside the panels, lined up like planes awaiting takeoff at O'Hare Airport. More work is to be done.

For this particular cow, the inspection is over. It is time for the verdict. Yes or no? Bred or open? Ship or save?

The vet pulls her arm out of the cow and peels off the plastic sleeve, holding the manure mess inside. She ties it off and places it in the disposal bucket. The rancher awaits the answer to his unspoken question. The vet looks at him and smiles. "Second trimester," she says.

It's a good day at the ranch.

Decision Time By Ron Wilson, Poet Lariat

It is preg-checking time The vet inspects, on our behalf: Is this cow unbred and open, or is she carrying a calf? The vet's training and experience will tell her what to do. The cow's future's very different, based on the vet's review. If the vet's examination shows that the cow is bred, She'll stay on the ranch with the others to be fed. But if she's found open, then she takes a different route Then she's not thought worth keeping, so we choose to send her out. We'll send her off to market, to a very different fate, Unlike the ones we keep, who continue to gestate. We are grateful for the vet who knows this paradigm And helps to check each cow, when it's preg-checking time. Happy Trails! www.ronscowboypoetry.com

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Yard & Garden Tips By Gregg Eyestone

A Gift for the Birds

'Tis the season to be giving. Birds will appreciate getting food and water throughout the winter season. For those of us that like to watch birds, they will give us hours of entertainment. Let's keep up the giving.

Shelter, water and food are the requirements for birds. Permanent landscaping can provide most shelter. The Christmas tree after the holidays can become temporary shelter when placed in the landscape. It and other plants provide protection from the wind and predators.

The toughest requirement for birds to find during the winter is useable water. Birds literally flock to available water. Providing fresh water and using a heater will draw the feathered friends to your viewing location.

Food for birds can come from a variety of sources. Desirable plants strategi-

cally placed are used to bring birds into viewing. The seeds of black-eyed Susan and purple coneflower provides food for several birds that visit the landscape. Some other perennials that birds may visit are aster, mums, Coreopsis, and sedums.

Annual flowers can provide food. Dead marigold and zinnia flowers left in the garden is a source of seeds. Cosmos, bachelor button, calendula and sunflowers are more good annuals for birds.

I supplement my food supply with feeders. My hanging feeders are on a support near the bur oak tree to provide an easy perch. A suet feeder balances the support. These two different feeders give me a good balance of available food for various birds.

When it comes to bird feed, it's hard to beat sunflowers. The most desired is the solid black oil-seed. Black-striped and graystriped rank two and three respectively. These are inexpensive, packed with protein and relished by the more desirable songbirds.

There are ground feeding birds. I use a trav for a container to hold the bird feed that is mostly grain.

It is comforting to know that my feeding is not necessary for bird survival. Feeding is a hobby that allows me to enjoy birds close up.

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

American Lamb Board working on flavor profile research

Board (ALB) is under- ket lamb more successfully taking groundbreaking research to investigate separating different flavor profiles of lamb at the processing level of production. The technology utilized was originally developed for the medical industry and is referred to as rapid evaporative ionisation mass spectrometry (REIMS). The project involves researchers from Colorado State University and Texas Tech University. "Being able to classify lamb into flavor profiles

The American Lamb has the potential to marto consumers who like it milder or more intense," says Gwen Kitzan, ALB chair. "And we can accurately detect off-flavors and carcass characteristics at the processor to utilize the meat in the best way possible."

Phase three results show the REIMS-driven technology is quite accurate in predicting flavor attributes that correlate to what a 400-member consumer sensory testing panel would identify. The project also aims to determine how management practices such as age, sex, breed and feeding methods affect lamb flavor.

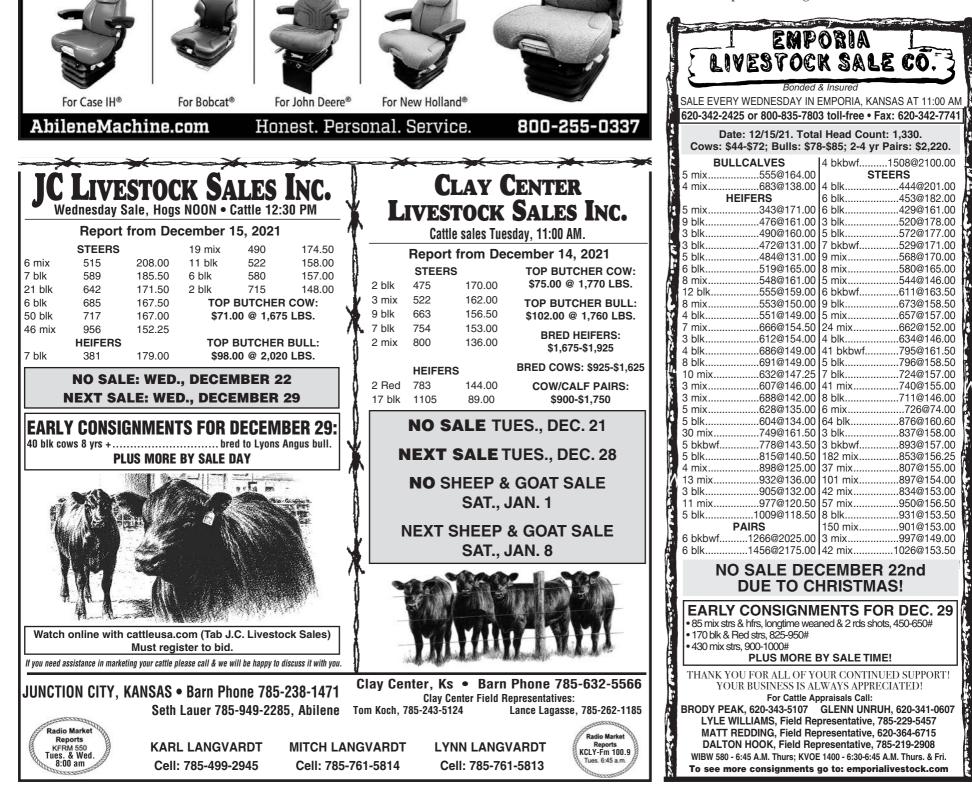
Lamb is the first meat industry to do such thorough investigation into REIMS and although it requires a step-by-step process, indications show the outcomes could be very beneficial to lamb market-

"The flavor profile work is an example of a longterm research project to address a significant barrier to increased American Lamb consumption that the Lamb Checkoff is steering with the ultimate goal of improving American Lamb quality and eating experiences for consumers," says Kitzan.

Phase three of the research is complete and the sensory panel reports are available upon request by emailing rae@American-Lamb.com.

The American Lamb Board (ALB) is an industry-funded national research, promotion and information checkoff program that works on behalf of all American producers, feeders, seedstock producers, direct marketers and processors to build awareness and demand for American Lamb. One of its long-term goals is to collaborate and communicate with industry partners and stakeholders to expand efforts to grow, promote, improve and support American Lamb.





Grass & Grain, December 21, 2021 Page 21 United Sorghum checkoff program strengthens marketing efforts with team approach and new staff addition to fully capitalize on sorghum's versatility

The United Sorghum Checkoff Program has announced a strategic reorganization of its marketing team. Under the new structure, the Sorghum Checkoff will focus on developing and advancing sorghum as the resource-conserving ingredient and efforts to reveal the potential and versatility of sorghum through increased shared value.

The new marketing team includes longtime Sorghum Checkoff team members who now hold expanded roles from their previous regional marketing positions:

Shelee Padgett, director of emerging markets and grower leader development

Brent Crafton, director of feed ingredient utilization Zach Simon, director of ingredient utilization and pet food

Padgett is focused on facilitating international marketing efforts, emerging markets and regional relations as well as the Leadership Sorghum program, which offers various sorghum education programs to young and emerging leaders in the sorghum industry. Crafton is responsible for research and program development in aquaculture, livestock and poultry nutrition programs. Simon is focused on sorghum's role in the pet food industry, renewable fuels and supply chain infrastructure.

"This team approach to developing valuable markets for sorghum will help showcase and advance sorghum's versatility across the entire landscape of the diverse end uses for our crop," Sorghum Checkoff executive director Norma Ritz Johnson said. "We are thrilled Padgett, Crafton and Simon-all seasoned members of Team Sorghum— were able to step into these new roles.'

Lanier Dabruzzi, MS, RD, LD, is the most recent addition to the restructured marketing team. She joins the Sorghum Checkoff as the Director of Food Innovations and Institutional Markets and will be responsible for increasing the use of sorghum in the U.S. food supply as an ingredient and stand-alone product. She will also provide marketing and education and identify critical issues and opportunities relating to value-added sorghum marketing opportunities in the food industry

"Dabruzzi came to us highly recommended for her history of connecting with consumers and the food industry by highlighting the nutritional benefits of the products she has represented," Ritz Johnson said. "The experience and deep industry insights she has, coupled with her culinary nutrition skills, are the perfect fit as we begin this new chapter. I have never been more excited about our industry's future."

Before joining the Sorghum Checkoff, Dabruzzi served as the assistant director of food and nutrition outreach for the Dairy Alliance. In that role, she used her in-depth knowledge of food, communications and marketing to grow sales through food and nutrition trends, nutrition expertise, menu and product ideation, including working in partnership with MilkPEP on programs and campaigns with the National Football League (NFL) and United States Olympic & Paralympic Committee (USOC).

"I have tremendous respect for our nation's farmers and the safe, nutritious food they produce for us each day," Dabruzzi said. "Sorghum has enormous growth potential in the consumer food industry, and I could not be more excited to lead that effort."

Dabruzzi is a member of the Food and Culinary Professionals Dietetic Practice Group with the Academy of Nutrition and Dietetics and the Georgia Academy of Nutrition & Dietetics. Dabruzzi received her Bachelor of Science from the University of Southern California in Health Promotion and Disease Prevention and her Master of Science from the University of Tennessee in Nutrition Science. Dabruzzi has worked with the dairy, beef and almond industries for more than ten years.

The team approach to the Sorghum Checkoff's market development efforts was implemented preceding the Dec. 8 retirement of Market Development director Doug Bice, who has devoted eight years to the Sorghum Checkoff and sorghum industry.

"I would like to thank Doug Bice for his role in bringing added value and demand for U.S. Sorghum farmers,' Sorghum Checkoff CEO Tim Lust said. "Bice has been a tremendous advocate and innovator to our organization and our industry."

4-H international exchange program set to restart in 2022 mania).

By Pat Melgares

A Kansas 4-H international exchange program that has been on hold since 2020 due to the COVID-19 pandemic has been given the go-ahead to restart next summer.

Mary Kay Munson, who helps to coordinate 4-H exchange programs in Kansas, said the States' 4-H International Exchange program offers a chance to experience cultures in several European, Asian or Latin American countries for three to eight weeks. She said six Kansas teens have been approved to participate in summer 2022.

lected have an opportunity to understand themselves better," Munson said. "Because they are away from their normal culture, they have to figure out what their values are and what they want to be as they mature into fully active citizenship. And they have to work on their communication skills whether or not they speak a language other than English.'

Six Kansas 4-H members will be notified in January of the country they will be placed in. Those six, and their country of choice, include:

Maddie Anderson (Norway).

Abigail MacGregor (Romania).

Isaiah Moreno (Japan). Kate Rogers (Japan). Wyant (Costa Jayla

Rica). Exchange visits in many other countries are available to Kansas youth through other programs that Kansas 4-H supports, including the IFYE Association of the USA.

Munson said the States' 4-H International Exprogram change pairs youth with a host family for two to three weeks, except in Japan where the four-week exchange can be combined with a lan-

sion experience.

"We had planned a new program in Argentina last year, but it was canceled due to the pandemic," Munson said. "That was an opportunity where U.S. youth would spend time in a low income area in Cordoba, Argentina; participate in soccer and orchestra; and study Spanish with the Argentine kids.'

The exchange with Argentina is planned to begin in summer 2022. "Most countries we in-

teract with have a program similar to 4-H." Munson said. "So the individuals they interact with are in programs with values sim-

The Kansas contingent that will go abroad in summer 2022 will be finalized in January, according to Participating Munson. youth will have to complete the full series of vaccinations for COVID-19, as well as receive a negative PCR test within 72 hours of boarding a flight for their destination country.

Munson encouraged all Kansas youth to think well in advance about taking part in an international exchange. Applications for 2023 normally are expected to be due by Nov. 1, 2022.

"For those youth who are thinking of going, but have a pen pal program that starts in January and goes through the spring," she said. "Pen pals communicate by email, messaging and frequently by audio and video technology and the Internet."

In addition, host families for exchange students coming from the partner countries are needed in Kansas. Munson said the deadline to apply to be a host family is March 1.

More information on the States' 4-H International Exchange program is available online. Interested persons can also contact Munson by email, mkm2@ksu.edu or their local Extension agent.

"The youth that are se-Nathan Anderson (Ro-Bayer to launch Project Carbonview, an industry-first digital carbon footprint measurement solution for agriculture

Bayer, Bushel and Amazon Web Services (AWS) has unveiled Project Carbonview. This has been conceptualized by Bayer Crop Science and develin collaboration oped with Bushel and AWS. It is a first-of-its-kind technology solution that will help farmers in the United States drive more sustainable supply chains and mitigate the impact agriculture has on the environment by aggregating the carbon footprint of end products. Project Carbonview is the latest example of Bayer's unique focus on connecting the farmer more deeply into the value chain to better capture their carbon contribution and drive the entire value chain to net-zero carbon emissions. Through this solution, farmers are empowered to connect to more sustainable supply chains that benefit their farming operations while minimizing carbon emissions. Beginning as a pilot program, Project Carbonview is focused on creating awareness and acceptance for low-carbon fuel markets. Eligible farmers who enroll in the pilot will receive compensation for participation. Ultimately, once these markets are broadly established, we anticipate growers will be compensated based on the implementation of sustainable farming practices and will share in the financial incentives created by low-carbon fuel markets.

will initially enable U.S. ethanol producers (corn is a key ingredient in ethanol production) to track carbon emissions across the entire supply chain from planting through production - and implement more sustainable business practices by providing the data needed to make more informed purchasing decisions and reduce their carbon emissions. For farmers who opt into the program, Project Carbonview streamlines on-farm data collection with Bayer's Climate FieldViewTM application and connects it with delivery and transportation data captured from the 54,000 U.S. active users of Bushel's platform. Through the Climate FieldViewTM platform, farmers

chasing decisions.

"We are very excited to

launch a solution to help

transform the food and

agriculture value chain

by paving the way for a

more resilient, regenera-

tive and net-zero carbon

future," said Leo Bastos,

Global Commercial Eco-

systems Lead, Bayer Crop

Science. "While Field-

make more informed deci-

helps farmers

ViewTM

tions, Project Carbonview will make it possible for them to drive sustainability improvements across the entire value chain. The integration of our leading digital and data science under Project Carbonview will give farmers greater choice and resources to be compensated for more productive and sustainable decisions on-farm."

As part of a recent pilot, Project Carbonview identified opportunities to optimize supply chain partners to reduce Scope - or downstream supply chain - emissions in a single year. For farmers, Project Carbonview provides another option for them to participate in and capture value from these evolving markets. This new solucontinue to own their data tion marks the latest development by Bayer - who and choose who to share their data with. Project is working to build a port-Carbonview, which is built folio of farmer-facing programs to complement its on AWS, allows permissioned access to on-deexisting Bayer Carbon Initiative, a program which mand product transaction incentivizes the adoption and crop exchange market data from the ethanol proof climate-smart practicduction facilities through es, creating new revenue the Bushel platform to streams for growers who evaluate the carbon imuse technology to keep pact of sourcing and pur-

carbon in the soil - and out of the atmosphere.

"Project Carbonview gives grain buyers and producers visibility into the carbon impact of production so they can evaluate the impact of different agronomic practices, make sustainability improvements and help their customers make better purchasing decisions. said Elizabeth Fastiggi, Head of Worldwide Busi-Development for ness Agriculture, AWS. "We supported Bayer by working backwards from their vision, to ensure Project Carbonview has the potential to be successfully adopted at scale within the current business operations of producers."

"Project Carbonview makes it easy for producers and processors to share information. Through our relationship with Bayer and support of AWS, we can empower and incentivize sustainable behavior across the agricultural value chain and build a scalable digital solution that can be deployed anywhere," said Jake Joraanstad, co-founder and CEO of Bushel.

The team behind Proiect Carbonview is piloting the solution with U.S. corn producers during the 2022 season and plans to expand the program in the future to other global regions and other feed grains, food grains and oilseeds such as soybeans. Within the pilot, the team is exploring how Project Carbonview can assist ethanol producers to capture the impact of corn production within their emissions reporting, as well as opportunities for users to share best practices for achieving emissions benchmarks within a dedicated community.

Forward-Looking State-

ments: This release may contain forward-looking statements based on current assumptions and forecasts made by Bayer management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. These factors include those discussed in Bayer's public reports which are available on the Bayer website at www.bayer. com. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

Project Carbonview focused on the United States

sions on their own operaentral ivestock 811 N. Main St. South Hutchinson, Ks www.centrallivestockks.com Clint and Dalli Turpin ~ Owners Office: 620-662-3371 Hay Auction- Every Tuesday at 9:00 a.m. Cattle Auction- Every Tuesday at 11:00 a.m. Hog/Sheep/Goat Auction- Every 3rd Saturday Horse/Tack Auction- Every 2nd Saturday SALE RESULTS: 12-14-21 Heifers Steers \$150.00-\$170.00 300-400# \$185.00-\$210.00 300-400# 400-500# \$145.00-\$165.00 400-500# \$155.00-\$197.50 500-600# \$140.00-\$160.00 500-600# \$160.00-\$190.00 600-700# \$135.00-\$148.00 600-700# \$150.00-\$175.00 \$148.00-\$155.00 700-800# \$145.00-\$165.00 700-800# 800-900# \$145.00-\$158.00 800-900# \$140.00-\$150.00 Tues., Dec. 28th - NO SALES

Tues., Jan. 4th - Regular Sale Sat., Jan. 8th - Horse & Tack Sale ALL WEIGH COWS & BULLS SELL AT THE END

Holton Livestock Exchange, Inc. 1/2 mile East of Holton, KS on 16 Highway Livestock Auction every Tuesday at 11:00 AM ****STARTING TIME: 11:00 AM**** ***NEW STARTING TIME*** 11:00 AM MARKET REPORT FOR TUESDAY, DECEMBER 14, 2021 **RECEIPTS: 1631 CATTLE** FOR FULL RESULTS, VISIT OUR WEBSITE: WWW.HOLTONLIVESTOCK.COM 20 blk Holton 689@165.00 STEERS 10 blk bwf Easton 455@225.00 39 blk red Bendena 695@165.00 18 blk Atchison 476@224.00 24 blk Netawaka 677@159.00 8 blk rwf Highland 501@212.00 HEIFERS 9 blk bwfEffingham503@184.00 13 bwf rwf Highland 508@209.00 24 blk bwfTroy 514@205.50 13 blk bwf Atchison 468@178.50 9 blk Robinson 517@200.00 9 blk bwfHighland 477@175.00 9 blk Robinson 562@193.00 16 blk bwfRobinson 530@173.00 18 blk bwf Easton 546@191.50 12 blk red Seneca 525@166.50 22 blk bwf Rushville,MO497@189.00 17 blk bwf Bonner Springs 492@165.00 Holton 587@186.00 21 blk bwfRushville.MO461@159.50 9 blk 11 blk bwf Fairview 585@183.00 42 blk red Bonner Springs 572@155.50 7 blk red Atchison 600@180.00 11 char Atchison 660@155.00 Topeka 635@174.00 22 blk bwf Netawaka 642@155.00 11 blk 18 blk Netawaka 605@173.50 32 blk bwf Valley Falls 755@152.85 10 blk bwf Soldier 543@152.00 600@172.00 13 blk red Troy 16 blk Effingham 664@171.00 Netawaka 567@151.00 16 blk 30 blk char Lancaster 666@171.00 10 blk Valley Falls 663@146.50 7 blk Bendena 737@169.00 10 blk Effingham606@145.00 14 blk red Bendena 602@165.00 HAPPY HOLIDAYS! **** CLOSED DECEMBER 28 DEC. 30: Paul & Norma Lueske Farm Retirement Auction, **Horton KS** JANUARY 4: Regular Weekly Auction * 11 A.M. JANUARY 11: Special Calf & Yearling Auction * 11 A.M. Dan Harris, Auctioneer & Owner • 785-364-7137 Danny Deters, Corning, Auct. & Field Rep • 785-336-1622 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 Mark Servaes, Atchison, Field Rep. • 816-390-2549 Barn Phone • 785-364-4114 WEBSITE: www.holtonlivestock.com EMAIL: dan@holtonlivestock.com View our auctions live at "Imaauctions.com

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Market Report - Sale Date 12-16-21. 1585 Head

300-400 lb. steers, \$163-\$199; heifers, \$151-\$181; 400-500 lb. steers, \$166-\$202; heifers, \$130-\$168; 500-600 lb. steers, \$121-\$175.50; heifers, \$129-\$155; 600-700 lb. steers, \$114-\$166; heifers, \$115-\$149; 700-800 lb. steers, \$111-\$154.50; heifers, \$103-\$151; 800-900 lb. steers, \$108-\$158.25; heifers, \$100-\$145.50; 900-1,000 lb. steers, \$106-\$161.25. Trend on Calves: Steady to slightly weaker on light test. Trend on Feeder Cattle: Steady to \$3 lower on lighter test. Butcher Cows: high dressing cows \$65-\$82; Avg. dressing cows \$50-\$61; low dressing cows \$30-\$48. Stock Cows: Bred Cows: \$830-\$1700; Cow/Calf Pairs: \$960-\$1775. Butcher Bulls: Avg. to high dressing bulls \$50-\$85. Trend on Cows & Bulls: Steady to firmer.

Some Highlights Include:

	HEIFERS	STI	EERS
7 blk	361@181.00	2 blk	402@202.00
4 blk	475@167.00	8 blk	530@175.50
11 bwf	542@152.50	7 blk	736@156.50
33 mix	671@146.50	63 mostly blk	837@158.25
3 mix	731@151.00	58 blk	962@161.25
4 blk	1001@121.50	6 blk	1130@133.00

NO SALE DECEMBER 23RD! MERRY CHRISTmas from all of us here at ELA! ***

NO SALE DECEMBER 30th! HAPPY NEW YEAR! ***

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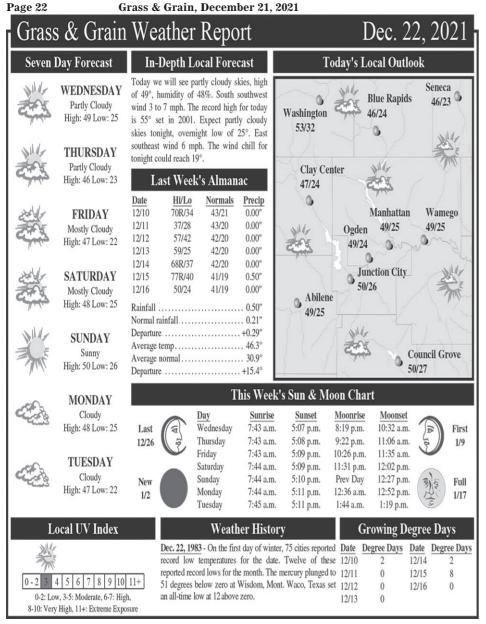
We welcome your consignments! If you have cattle to consign or would like additional information, please call the office at 316-320-3212

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Cattle Sale Every Thursday 11:00 AM



House passes U.S. ocean shipping reform act

The U.S. House has passed legislation providing for the first major update of U.S. international ocean-shipping laws in more than two decades. News of the legislation moving on to the Senate was applauded by the North American Meat Institute, which said in a statement the bill would "prohibit ocean carriers from unreasonably declining export cargo bookings, a practice that has disadvantaged American exporters including the meat and poultry industry."

Proponents of the bipartisan legislation give the Federal Maritime Commission an updated toolbox to protect exporters, importers and consumers from unfair practices, updating the watchdog's authority to regulate the industry for the first time since 1998.

Kansas Corn Growers Association: EPA ethanol announcement falls short

The Kansas Corn Growers Association responded to EPA's announced ethanol volumes. After months of delays, EPA released the proposed biofuel blending volumes for the Renewable Fuel Standard (RFS) in its Renewable Volume Obligation (RVO) proposal. The statutory level for conventional ethanol is 15 billion gallons per year. The proposal was a mixed bag in which EPA set the 2022 volume level at 15 billion gallons for 2022, but set the 2021 RVO at 13.32 billion gallons. Then, in an unprecedented move, EPA revised the finalized 2020 RVO level of 15 billion gallons, reducing it to 12.5 billion gallons. The RVO sets the yearly level for renewable fuels required by the RFS, the mechanism that provides market access to renewable fuels.

"Cuts in the ethanol RVO mean cuts in corn de-

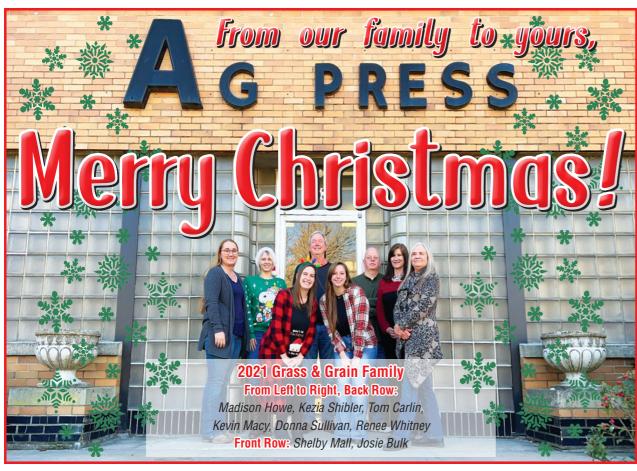
mand. EPA's volume levels for conventional ethanol over those three years destroy demand for over 1.5 billion bushels of corn," KCGA CEO Greg Krissek said. "We do appreciate EPA meeting the statutory level for ethanol in 2022. But we see a cut in 2021 volumes, and we are alarmed that they would reopen the 2020 RVO, a rule that was already finalized."

EPA said the retroactive 2020 cut was based on reduced fuel consumption. However, the RFS is already designed to respond to reductions in demand.

Kansas Corn was pleased with the announcement of \$100 million toward ethanol infrastructure projects from USDA that was also announced. Kansas Corn has been a leader in utilizing previous USDA funds for adding infrastructure to help retailers offer highor athanal blonds. KCCA was also pleased that EPA agreed to deny the 65 pending small refinery exemption requests.

KCGA president Brent Rogers of Hoxie said the Biden Administration should not lower ethanol levels because ethanol plays a major role in meeting climate goals.

"EPA should increase, not decrease ethanol volumes. Ethanol is the fuel that is being used nationwide today that is actually achieving climate goals in a big way," Rogers said. "When you're looking at achieving carbon goals, ethanol continues to be the answer. It is already blended in 96 percent of our nation's gasoline supply and ethanol continues to have the greatest impact on lowering greenhouse gas emissions. Plus, it's renewable, domestic and lowers fuel costs for consumers.'





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