



## **Ranch Management Field Day**

#### Carpenter Cattle Company | Brewster, KS Thursday, August 17, 2023 | 3:30 pm

## 

Sponsored by:





#### CARPENTER CATTLE COMPANY

The Carpenter family has been farming and ranching in western Kansas for six generations. Today, Wayne Carpenter, his wife, Leisha, and their sons Jarrett and Seth, along with their wives and children, operate Carpenter Cattle Company. The operation is diversified, with both cow-calf and stocker herds, a feedyard and a farming enterprise.

Wayne grew up dryland farming and raising cow-calf pairs before adding feeding cattle as part of the family business in 1980. In the more than 40 years since then, the yard, located near Brewster, has grown to a 15,000-head capacity. The ranch retains ownership on their calves, feeds them in their feedyard and markets them through U.S. Premium Beef (USPB). Carpenter Cattle Company has been a proud member of USPB since its inception in 1996.

Angus-based commercial cows bred to Angus and Charolais bulls make up the majority of the 1,500-head cowherd, spread out on ranches across multiple counties in far western Kansas. On the other side of the state, the Carpenters run stockers on Flint Hills grass before bringing them home to finish in the feedyard. Carpenter Cattle Company buys stocker calves to finish in addition to their own ranch-raised cattle.

Additionally, the family farms both dryland and irrigated crops to use for feed in the feedyard. Jarrett and Seth both contribute to the farming entity of Carpenter Cattle Company, while Leisha handles most of the bookwork. All six grandchildren, ages 2 through 13 years old, own cattle and are involved in the family operation.

## **'Where's my grass? Managing Drought and Weedy Species'**



Keith Harmoney, Kansas State. University, Ag. Res. Center - Hays

#### Rain and Stocking Rate are the two most important factors for rangeland yield and livestock production...

...both also affect plant species composition, for better or worse.

What you see aboveground from drought, with less photosynthesis and less leaf growth, also happens below ground, with less root growth and fewer tillers and buds.



The result is weak grass plants and potential thinning stands, especially with consecutive years of low precipitation. Heavy utilization before drought reduces these more.

FIG. 28. Decrease in percentage of basal cover in a short-grass type: (1) ungrazed, (2) moderately grazed, and (3) overgrazed. The percentage of bare ground in the overgrazed range (4) reached its maximum in 1936.

The canopy opens up for other plants to grow and take advantage of less grass competition. Many of those plants are broadleaf forbs.



**Different root** structures may allow some native forbs to persist well and may increase following droughts.





Just because a plant is not a grass doesn't mean it's a weed. **Cattle eat high** forage value forbs as 10-25% of their diet.



Western ragweed populations decline during drought, but it and other perennials can increase following drought.

#### Western Ragweed Composition in Short Grass - Mixed Grass Rangeland 2002-2019 Under Moderate Stocking



Population is highly precipitation dependent

#### Native shortgrass vs. Western ragweed: Forage quality



Different letters mean that values are statistically different between sample dates.



**Opportunists are** annual and biennial weeds, they will establish where stands have thinned and canopies are opened.



Some opportunists are the same as crop weeds:

Sunflower Kochia Palmer amaranth Russian thistle Marestail Foxtails Crabgrass Lambsquarter



## Methods to control opportunists:

- 1. Grazing
- 2. Burning
- 3. Herbicide
- 4. Time



**Grazing:** Most of these annuals have high forage quality and are quite palatable, so flash grazing or high density grazing is a main control option (digestibility of 60-80%).

#### **Prescribed burning:**

Not common in western Kansas, but is useful to control annual invading species and encroaching tree and shrub species. Fire historically occurred every 10-15 years.



#### Herbicide application:

Case by case scenario based on the invading species, the level of abundance, and the potential for long term presence and impact.



#### Time:

Several species cycle with the weather pattern, and as moisture conditions change, so does the plant population.



## Other opportunists:

Japanese brome Noxious thistles Mullein



Common invaders we saw after the 2011-2013 drought period:

Russian thistle Marestail Mullein Western ragweed Musk and Bull thistle

### Herbicides for Broadleaf Weed and Thistle Control in Shortgrass Rangeland

Herbicide	Rate/acre
Aminopyralid (Milestone)	3.0-7.0 oz
Aminopyralid + 2,4-D (GrazonNext)	1.2-2.0 pt
Metsulfuron methyl (Escort, Cimarron)	0.1-1.0 oz
Aminopyralid + Metsulfuron methyl (Chaparral)	1.0-3.3 oz
Dicamba (Banvel, Clarity, others)	0.5-1.0 pt
Dicamba + 2,4-D (Range Star, Outlaw, Latigo, others)	0.5-2.5 pt
Picloram (Tordon 22K)	0.5-1.0 pt
Picloram + 2,4-D (Grazon P+D)	2.0-4.0 pt



## My list for long-term species of most concern:

- 1. Trees and brush: Eastern redcedar, Honeylocust, Salt cedar, Russian olive
- 2. Old world bluestems: Caucasian and Yellow (King Ranch) bluestems
- 3. Biennial thistles: Musk and Bull thistles
- 4. Mullein
- 5. Yucca
- 6. Sericea lespedeza (if it gets established)
- 7. Herbicide resistant annuals from crops



A healthy grass stand is the best defense against stand loss during drought and invading species. Match stocking rate with expected forage production, and make adjustments based on precipitation, especially April-June precipitation.







Contact me at <u>kharmone@ksu.edu</u> if you have questions or would like to visit.



## Ranch Management Field Day Everyone is Talking a Bull Market, Here's WHY!

Presented By Don Close August 17, 2023



USDA-NASS, Terrain





USDA-NASS, Terrain



#### Map released: July 20, 2023

Data valid: July 18, 2023

View grayscale version of the map



United States and Puerto Rico Author(s):

**<u>Richard Tinker</u>**, NOAA/NWS/NCEP/CPC

More maps and statistics:

U.S. States and Puerto Rico Continental U.S. Regions -

Pacific Islands and Virgin Islands Author(s): Brad Rippey, U.S. Department of Agriculture

The data cutoff for Drought Monitor maps is each Tuesday at 8 a.m. EDT. The maps, which are based on analysis of the data, are released each Thursday at 8:30 a.m. Eastern Time.



## Slaughter













#### Fed Slaughter



Thousand Head

USDA-AMS, Terrain

#### WEEKLY BEEF PRODUCTION



## **Consumer Demand**



**Comprehensive Cutout** 



USDA-AMS, Terrain



### Demand Has Eased But Still Good





## **Price Outlook**







USDA-AMS, CME Group, Terrain



## **Thank You**

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**Terrain** offered by participating Farm Credit associations.















	2022	Qualit	y Pays	5 (KS)	
Actual Averages	Pr	CAB	Ch	Se	NoRoll
HCW	933	913	909	873	784
YG	3.2	2.9	2.5	2.1	1.6
\$/cwt	260.1	233.7	228.6	212.0	199.4
\$/head	2428	2135	2080	1851	1568
	29	93 5	55 2	29 2	83

















	YG 1	YG 2	YG 3	YG 4	YG 5
HCW	856	<sup>36</sup> 892	<sup>36</sup> 928	<sup>36</sup> 964	<sup>36</sup> 1000
Backfat, in.	0.34	0.48	0.65	0.85	1.10
REA, sq.in.	16.95	15.71	14.79	14.04	13.44
a-r REA	2.88	1.20	-0.15	-1.33	-2.37
>=1100, %	0.15	0.77	2.00	5.23	13.18

	X0.4			X0.4	
	YG 1	YG 2	YG 3	YG 4	YG 5
Marbling	Sm 20	Sm 71	Mt 22	Mt 61	Mt 82
Mb Code	420	471	522	561	582
PR, %	0.33	2.26	7.23	13.36	18.17
CH/PR, %	54.05	79.62	91.49	95.50	95.72
Branded, %	14.32	36.85	54.08	59.96	58.30
\$/cwt.	\$222.8	\$227.2	\$231.1	\$230.2	\$222.6
\$/Head	\$1910	\$2029	\$2146	\$2218	\$2225

Realistic Goals				
	USPB	36 ranches	8 ranches	
Head		25,913	4,066	
HCW, lbs	844	859	831	
Prime, %	6.36	29.79	51.17	
Ch/Pr, %	87.07	98.23	99.38	
CAB, %	28.22	45.05	37.68	
YG 4&5, %	12.44	18.43	20.89	
Premium, \$/hd	\$58.42	\$79.73	\$95.94	
FY2019 data				





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#### WORKING FOR THE AGRICULTURE INDUSTRY SINCE 1894

Advancing the business interests of its members is KLA's mission. Officers and staff work to achieve this goal day-in and day-out by working with legislators and regulatory agencies to advance KLA policy. While a large percentage of KLA's membership is composed of beef producers, the association's efforts benefit producers of a variety of ag commodities as well as those engaged in related industries. KLA invites anyone with a financial stake in Kansas agriculture to join us in our work on their behalf.

#### We've got your back.

- Protecting private property rights of agricultural producers.
- Ensuring that county and municipal zoning and building regulations do not restrict agriculture.
- Supporting increased weight limits for trucks carrying agricultural inputs, supplies and commodities.
- Defending agricultural exemptions from sales and property taxation.
- Working with state government and groundwater management districts to ensure availability of water for agriculture and other uses well into the future.



#### **KLA/NCBA MEMBERSHIP APPLICATION**

Name:	
Spouse:	
Farm/Ranch Name:	
Address:	
City:	State:
County:	Zip:
E-mail:	
Home Phone:	
Cell Phone:	
Recruited By:	
Type of Operation:	

Kansas Livestock Association Dues......\$120.00

National Cattlemen's Beef Association Dues......\$150.00

#### Total Dues Investment \$

The portion of KLA and NCBA dues not directly allocable to lobbying expenditures is tax deductible for most members as an ordinary and necessary business expense. For KLA, dues are 92% deductible; NCBA dues are 90% deductible.

Join both associations and receive discounts on: Dell Technologies | Cabela's | Bass Pro Shops Caterpillar | New Holland | Roper & Tin Haul | John Deere

Return this application with your dues investment to:

Kansas Livestock Association 6031 SW 37th Street • Topeka, Kansas 66614 *Or join online at www.kla.org*