

EXTENSION

RANCHER'S THURSDAY LUNCHTIME SERIES

Vac 45 Program Opportunities and Considerations

Join our Beef Cattle Extension team, experienced livestock marketers and ranchers to learn and share beef cattle production, management and marketing tips.

Thursday, May 14, 2020 | 12:30 - 1:00 p.m.
 Vac 45 Program Health and Management Influence on Calf Prices
 Kellie Raper, Extension Livestock Marketing Specialist

- Thursday, May 21, 2020 | 12:30 1:00 p.m.
 Considerations in Herd Health Programs Designed for Vac 45 Certification
 Rosslyn Biggs, Beef Cattle Extension Specialist
- Thursday, May 28, 2020 | 12:30 1:00 p.m.
 Nutritional Programs and Implants for Vac 45 Programs
 Paul Beck, Extension Livestock Specialist
- Thursday, June 4, 2020 | 12:30 1:00 p.m.
 Putting it Together: Budget and Breakeven Projections for Fall 2020
 David Lalman, Extension Beef Cattle Specialist
- Thursday, June 11, 2020 | 12:30 1:00 p.m. Marketing Vac 45 Cattle: What We Have Learned the Last 20 Years
 Bill Barnhart, Oklahoma City West Livestock Market
 David Cantrell, Rancher and Extension Educator

 Thursday, June 18, 2020 | 12:30 - 1:00 p.m.
 Steps to Certify and Market Your Calves Through the Oklahoma Quality Beef Network
 Jeff Robe, Oklahoma Quality Beef Network Coordinator

LIVE WEBINARS

Register Online: <u>dasnr.zoom.us/meeting/register/</u> <u>tJAvd-yrrjMrGNEAuaK6dkost_</u> <u>a4uGLSUEn_</u>

CONTACT

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Vac 45 Program Health and Management Influence on Calf Prices

Kellie Curry Raper Livestock Marketing Economist Rancher's Thursday Lunchtime Series May 14, 2020





Managing Calves for Value

Moving calves off the ranch is stressful!

- Calf health is critical to cow-calf producers, stocker operators, and feedlot managers
- Avoid simultaneously weaning, mixing & transporting
- Benefits of lowering the stress?
 - Increased Feedlot and Carcass performance
 - Buyers recognize the value





VAC45 Preconditioning Protocols

- A "typical" VAC45 program includes
 - Castration of male calves, healed prior to marketing
 - Horn management dehorn or polled genetics
 - Minimum 45 day weaning period pre-sale
 - Vaccination protocol
 - Bunk training/bunk broke
 - Most require home-raised; specific programs for put-together calves are out there
 - Deworming recommended or required





VAC45 Benefits to Buyers

	Preconditioned	Non-Preconditioned
Percent Sick	9.2	36.4
Percent Dead	1.5	4.3
ADG	2.9	2.6
Conversion	6.3	6.9
Percent Choice	50.4	35.8
Percent "Outs"	2.5	6.9

*Survey of Texas and Southwest Cattle Raisers Association Feedlot Managers

"Non-weaned calves were 3.4 times more likely to experience BRD than weaned calvescalves weaned less than 30 days were no different in health attributes than those weaned directly onto a truck." Glenn Selk, OSU





Poll Question 1





VAC45 Benefits to Producers

- Marketing calves at heavier weight
 Weight gain during preconditioning period
 Less shrink at sale time
- Market into typical seasonal upward price movement - October to December
- Capture potential price premiums for
 - Healthier calves
 - Better starting calves on wheat or in the feedlot



Oklahoma Steer Seasonal Price Index Combined Auctions, 2007-2016







Practice Adoption in Oklahoma

Adoption Rates for Producers Adopting at Least One Listed Practice (n=1108)	%
Castration	71
Horn Management	77
Polled genetics	29
Deworm	73
45-day weaning	53
Respiratory vaccines	42
Feed bunk training	63
Castration, Horn Management	62
Castration, Horn Management, Deworming	56
Preconditioning Bundle (All of the Above)	24
Implant calves	20

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Source: Oklahoma Beef Management and Marketing Survey, 2018



Poll Question 2





Effect of Lot Size on Sale Price: 2010-2013 Sale Data

lot size effect \$/cwt







Defined Calving Seasons



Poll Question 3





Before We Talk Premiums...Let's Talk Discounts

- Fleshy ~ \$2.00-\$3.50/cwt =\$10-\$33.50/head
 Mintert 2003; Ward, Ratliff, Lalman 2017
 Bull calves ~\$6-12/cwt = \$30-\$60/head
 Williams et al 2014
 Castrate after 3 months = 20# less gain; 12 additional days in the feedlot
 Horns ~ \$3-6.30/cwt = \$15.75-\$31.50/head
 - Russell et al 2015; Ward, Ratliff, Lalman 2017; Williams et al 2014



VAC 45 Program Examples

Superior Livestock Auction

- http://www.superiorlivestock.com/value-addedprograms/superior-vaccination-programs
- MFA HealthTrack
 - https://mfa-inc.com/healthtrack
- Oklahoma Quality Beef Network
 - oqbn.okstate.edu





Superior Livestock Program Premiums Relative to VAC 24

Table 1. Effect of value-added health protocols within region¹ on the sale price of beef calf lots sold through summer video auctions from 2010 through 2018

Value-added health protocol administered to the lot	Number of lots	Least squares mean of sale price (\$/100 lb)	Regression coefficient
South Central			
VAC 34 or VAC 34+	1,590	166.70ª	4.25
VAC 45 or VAC 45+	1,838	171.80 ^b	8.63
Weaned: viral vaccinated ²	638	167.49ª	5.04
Non-weaned: viral vaccinated ²	223	164.27 ^c	1.82
VAC 24	510	162.45°	0.00

VAC 24 ~ Calves vaccinated at 2-4 months; sold off the cow unweaned Source: KSU Research Report, Volume 6, Issue 2, Article 14, 2020.



Superior Livestock Auction Programs

- Vac 24 Calves vaccinated at 2 to 4 months of age, sold off the cow
- Vac 34 Vaccinated three to four weeks prior to weaning, sold off the cow
- Vac 45 Calves weaned for 45 days and given two rounds of vaccinations
- Vac Precon Similar to Vac 45, but for put-together calves as opposed to ranch-origin calves



MFA HealthTrack Premiums





2019 OQBN Premiums by Weight Class and Gender



-5.00								
	300-399	400-499	500-599	600-699	700-799	800-899		Average
Steers	4.73	19.52	11.34	10.58	16.19	-2.43	0.00	11.48
Heifers	19.58	13.48	9.32	15.20	15.50	0.00	0.00	12.62

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25.00





Probability of Positive Returns for Various Management Practices

Practice Adopted	Net Returns (\$/cwt)	Probability of Positive Returns
Weaned	\$5.13	0.59
Vaccinated	\$6.01	0.64
Dehorned	\$6.31	0.59
Weaned and Vaccinated	\$5.36	0.59
Weaned, Vaccinated, and Dehorned	\$10.98	0.67
Weaned, Vaccinated, Dehorned, and Certified	\$12.90	0.79
Source: Williams, et al (2014)		

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Data Source: Oklahoma Livestock Auctions



Marketing Your Management...

- Marketing is just as important as the managing!
- Selling versus marketing
 - Venue matters
 - Market volume matters
 - Reputation matters
 - Third-party verification as a proxy for your own reputation
- VAC 45 Programs focus on BOTH management and marketing





Value-added programs begin by removing some of the risk that buyers assume exists in a specific group of cattle."









