RANCHER’S THURSDAY LUNCHE Time 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

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   - Paul Beck, Extension Livestock Specialist

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   Putting it Together: Budget and Breakeven Projections for Fall 2020
   - David Lalman, Extension Beef Cattle Specialist

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   Marketing Vac 45 Cattle: What We Have Learned the Last 20 Years
   - Bill Barnhart, Oklahoma City West Livestock Market
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   Steps to Certify and Market Your Calves Through the Oklahoma Quality Beef Network
   - Jeff Robe, Oklahoma Quality Beef Network Coordinator

LIVE WEBINARS

► Register Online: dasnr.zoom.us/meeting/register/tJAvd-yrjMrGNEAuaK6dKost_a4uGLSUEn_

CONTACT

► David Lalman
   Extension Beef Cattle Specialist
david.lalman@okstate.edu
405-744-6060
Herd Health Programs Designed for Vac45 Certifications

Rosslyn Biggs, DVM
Beef Cattle Extension Specialist
Director of Continuing Education
May 21, 2020
Poll 2: Herd Health 1

- Are you currently participating in a Vac45 certification program?

- Have you previously participated in OQBN Vac45 program?

- Do you plan to participate in the OQBN Vac45 program in the future?
A “typical” VAC45 program includes

- Vaccination protocol
- Castrated and healed
- Polled genetics or dehorned and healed
- Parasite control
- Minimum 45 day weaning period
- Bunk training
Objectives

- Veterinary Relationship
- Vaccinations
- Parasite Control
- Therapeutic SOPs
Poll 3: Herd Health 2

Do you currently have a valid veterinary client patient relationship?
Veterinary-Client-Patient-Relationship: Oklahoma Practice Act Definition

a. the licensed veterinarian has assumed the responsibility for making medical judgments regarding the health of an animal or animals and the need for medical treatment, and the client, owner or other caretaker has agreed to follow the instructions of the licensed veterinarian; and

b. there is sufficient knowledge of the animal or animals by the licensed veterinarian to initiate at least a general or preliminary diagnosis of the medical condition of the animal or animals in that:
   - 1. the licensed veterinarian has recently seen or is personally acquainted with the keeping and care of the animal or animals, or
   - 2. the licensed veterinarian has made medically necessary and timely visits to the premises where the animal or animals are kept or both, and

c. the licensed veterinarian is readily available for follow-up in case of adverse reactions or failure of the regimen of therapy, or has arranged for emergency medical coverage, and

d. the licensed veterinarian’s actions would conform to applicable federal law and regulations.
Protocol Choice and Your Veterinarian

- **Operation Goals**
  - Current herd health status
  - Disease risk for your area
  - Economics
  - Purebred/Seedstock
  - Marketing plan
Protocol Choice and Your Veterinarian

- Logistics
  - Location of processing
  - Timing of processing
  - Medication purchases
  - SOPs
Poll 4: Herd Health 3

- Are you currently vaccinating your cow herd?

- Which of the following vaccines do you give to your breeding animals?

- If you are administering respiratory vaccines to your cow herd, which of the following are you using?
Vaccine Protocols - One Size Fits All?

- Minimum Recommendations for most Vac45 programs - calves
  - Respiratory Viruses
    - IBR
    - PI3
    - BVDV I&II
    - BRSV
  - Clostridial
    - 7 way/8 way/9 way
    - Tetanus
  - Pasteurella
    - M. haemolytica
    - P. multocida
Vaccine Protocols

- READ THE LABEL!
- Keep Records
- Product Brand
- Type
- Bottle Size
- Follow BQA Guidelines
Vaccine Protocols

- Effective Protection
- Killed vs. Modified Live
- Expiration Dates
- Temperature Maintenance
- UV Light

Refrigerated Vaccines

- Too Cold! Take Action!
- Within Range
- Too Warm! Take Action!

25°F  30°F  36°F  40°F  46°F  50°F
Handling Vaccines

- Purchase as close to processing time as possible
- Buy from reputable sources
- Read vaccine labels
- Use a refrigerator thermometer
- Use reconstituted vaccines within the hour
- Use caution when cleaning reusable syringes
Vaccination Timing For Calves

- **First Round**
  - Branding (2-3 months of age)
  - Pre-weaning (2-5 weeks prior)
  - Weaning

- **Second Round**
  - Pre-Weaning
  - Weaning
  - Post-weaning
Poll 5: Herd Health 4

- When are you giving the first set of vaccinations to your calves?
- When are you giving the second set of vaccinations to your calves?
Vaccination Timing For Calves

- OQBN Data
  - Branding and Weaning
  - Weaning and Post-weaning
Parasite Control

- Internal Parasites
  - Injectable
  - Oral
  - Pour On

- External Parasites
  - Pour On
  - Tag
  - Others
    - IGR
    - Sprays
    - Cattle Rubs
Disease Treatment SOPs

- Discuss in advance
- Develop plan
- Annual review with veterinarian
- Training
- Accessible medications for common illness
  - Respiratory
  - Bloat
  - Lameness
  - Others
Disease Treatment SOPs
Respiratory Disease

- Assessing illness
- Diagnostics
- Antibiotics administration
- Anti-inflammatory administration
- Retreating
- Necropsy
Costs

- Respiratory Vaccine ~ $2-$3
- Clostridial Vaccine ~ $1-$2
- Deworming ~ $1
- External Parasite Pour On ~ $1
- Fly Tag ~ $1
- Implant ~ $2-$3
- Castration ~ $5
- Dehorning ~ $5-$10

Other Variables
- Processing location/Chute fees/Trip charges
- Group size/calf weight
- Facility quality
- Personnel costs
# Probability of Positive Returns for Various Management Practices

<table>
<thead>
<tr>
<th>Practice Adopted</th>
<th>Net Returns ($/cwt)</th>
<th>Probability of Positive Returns</th>
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</thead>
<tbody>
<tr>
<td>Weaned</td>
<td>$5.13</td>
<td>0.59</td>
</tr>
<tr>
<td>Vaccinated</td>
<td>$6.01</td>
<td>0.64</td>
</tr>
<tr>
<td>Dehorned</td>
<td>$6.31</td>
<td>0.59</td>
</tr>
<tr>
<td>Weaned and Vaccinated</td>
<td>$5.36</td>
<td>0.59</td>
</tr>
<tr>
<td>Weaned, Vaccinated, and Dehorned</td>
<td>$10.98</td>
<td>0.67</td>
</tr>
<tr>
<td>Weaned, Vaccinated, Dehorned, and Certified</td>
<td>$12.90</td>
<td>0.79</td>
</tr>
</tbody>
</table>


*Data Source: Oklahoma Livestock Auctions*
Resources

- OSU Beef Cattle Manual
- Don’t Forget Your Veterinarian

Picture courtesy: Dr. Katie Blunk
Beef Quality Assurance

Resources

www.bqa.org

BECOME CERTIFIED OR RENEW

- Carcass Quality and Composition
- Cattle Care
- Herd Health
- Biosecurity
- Nutrition
- Record Keeping
- Transportation
- Environmental Stewardship
- Worker Safety
- Emergency Action Planning
OQBN
VAC-45 SALES

Requirements

- Home Raised
- Vaccination Protocol (3 Options)
- Castrated and healed
- Dehorned and healed
- Weaned at **LEAST** 45 days
- BQA guidelines followed
- Program compliant tag
- Verification of requirements
  - 3rd party (OSU)

oqbn.okstate.edu
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