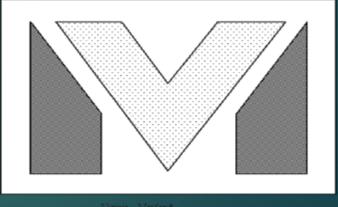
# Receiving Stocker Cattle Tri-State Beef Conference



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## Receiving Cattle

It's more than drugs and bugs

#### Objectives

- Discuss receiving herd health programs
  - ► Nutrition, vaccination and metaphalaxis
- Discuss stocker production economics in today's market
- ▶ Discuss any other topic you would like

# Value of Gain Per Pound Spring Stockers March 5 weights-Oct 8 weights



## What are my goals for stocker production?

- ► Sickness < 10% 33%
  - ▶ Depending on the type of cattle purchased
- ► Death loss 1%-4%
  - ▶Depending on the type of cattle purchased
- > 1.5 lbs ADG

## Receiving Cattle

- 1. Cattle purchasing
- 2. Arrival program
  - 1. Feeding and environment
- 3. Arrival Processing program
- 4. Arrival Disease recognition and treatment program

# What is the first step in the cattle receiving program?

# Cattle Purchasing

#### Cattle Purchasing

Must match cattle purchasing to farm resources and abilities

Large Stocker operators must be willing to stop purchasing cattle in the face of a train wreck

# Arrival Program Environment

▶ BRDC loves lots of calves and a crowded enironment



#### Farm D

#### Pre-weaning Management

- ► Nutrition
  - ▶ Pasture and milk
- ► Herd Health
  - ▶ Pyramid 5 + Presponse, Vision 7 July
  - ► Cydectin July

#### Farm D

# Steer Weaning Management

- Calves weaned into barn
- Calves fed brewers grain/corn silage/haylage mix
- Calves fed 2 grams CTC per day for 5 days

# Heifer Weaning Management

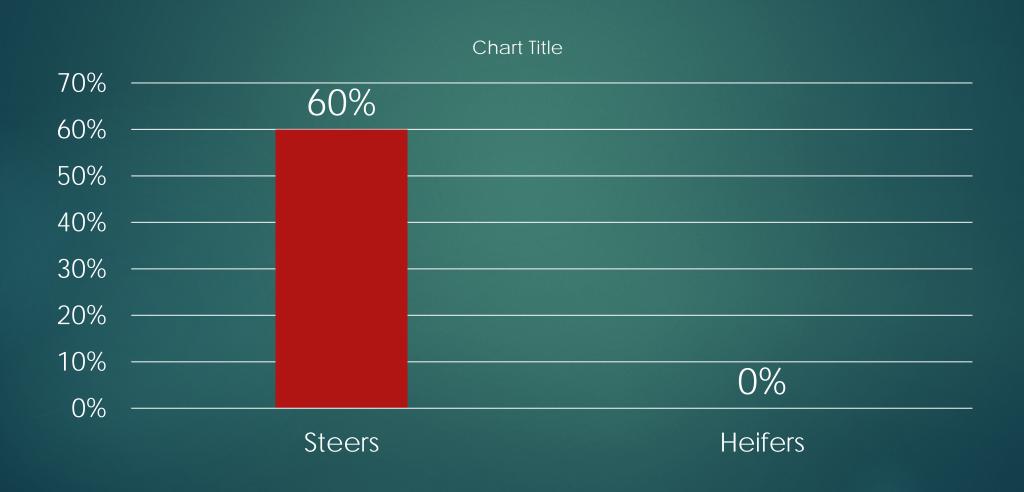
- Calves weaned in dry lot
- Calves fed brewers grain/corn silage/haylage mix
- Calves fed 2 grams per day CTC for 5 days



#### Farm D



#### Percent Calves treated for BRDC



# Arrival Program Feeding

- Feed should be palatable (taste good to the calf)
- ▶ Feed needs to not have to much starch
  - ► Corn, barley, wheat, oats less than half the total grain content
- Wet feeds and ensiled feeds are hard to manage in starter















What about special branded starter grains vs homemade ones?

# Backgrounded early weaned calves

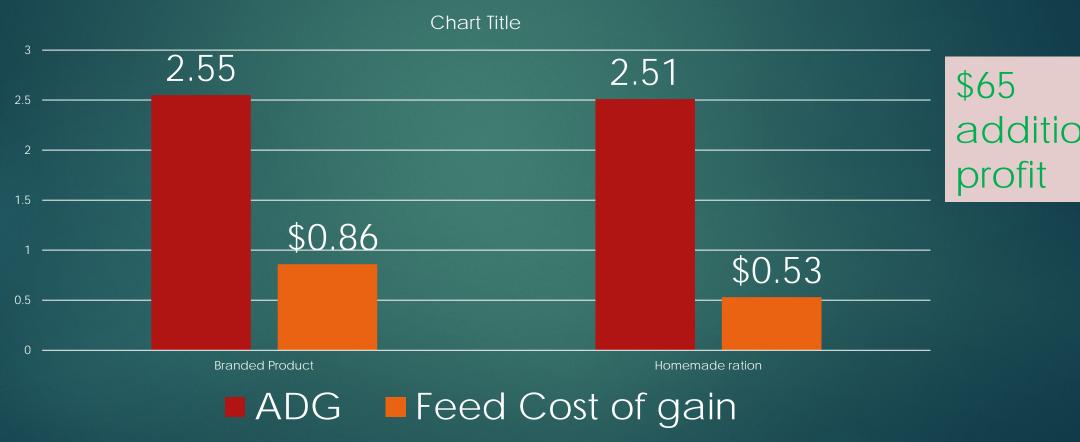
- ▶ Drought Summer 2014
- ▶ 400 calves weaned end of July
- ► Grain fed free choice
  - 1. Branded starter product
  - 2. Generic ration

#### Observations



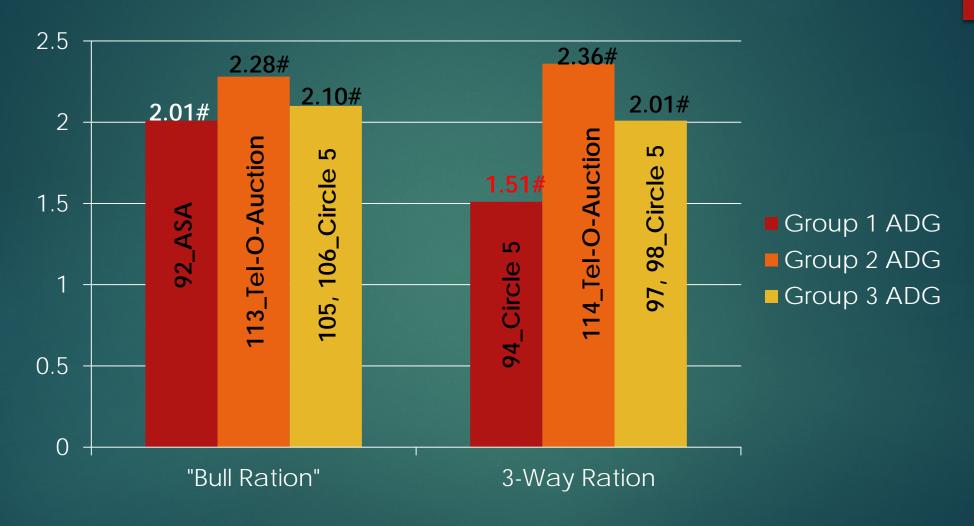


# ADG and Feed Cost of gain Branded starter feeder vs generic



additional

#### "Bull Ration" vs. 3-Way Ration



# "Bull Ration" vs. 3-Way Ration Conclusion:

Feed Cost/# of Gain

\$57 difference in net return



# Starter Rations Fancy Grain mixes or generic by-products

#### Group 1

- 2 lbs medicated starter +
   4 lbs corn gluten & soy hulls and grass and mineral per day
- ▶ADG 2.2
- ▶Feed Cost of Gain \$0.77

#### Group 2

- ► 6 lbs corn gluten & soy hulls + free choice grass and mineral per day
- ▶ ADG 2.8
- ▶ Feed Cost of Gain \$0.44

#### All Calves Are Not The Same

- ►Class 1
  - ▶ Preconditioned, Backgrounded calves
- Class 2
  - ▶ Calves transferred from farm A to farm B
- Class 3
  - ► Fresh market calves
- Class 4
  - ► Stale calves

# Class 3 Processing Plan

#### Within the first 24 hours

▶ 4-way MLV (IBR, BVD, PI3, BRSV)

or

- ► Vaccinate with a 3 way MLV (IBR, PI3, BRSV) IN
- ▶ Blackleg
- ▶ Parasite control
- +/- Mannheimia toxoid vaccine
- Selenium (+/- copper, zinc, manganese)
- Start on palatable grain
- Consider Metaphalaxis

#### Class 4

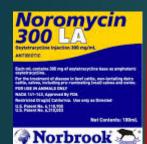
- ▶ Too late to vaccinate
- Most of these calves would benefit from METAPHYLAXIS
- ▶ Parasite control



# Drugs Approved for Metaphalaxis

<u>Drug</u>	Antibiotic Drug Class	Cost (500# calf)
Micotil® (tilmicosin)	macrolide	\$8.00 (\$16.00)
Nuflor® (florphenicol)	phenicol	\$21.00
Norbrook 300® (oxytetracycline 300 mg/ml)	tetracycline	\$4.80
Excede® (ceftiofur 200mg/ml)	B-Lactam	\$14.25
Draxxin® (tuluthramycin)	macrolide	\$23.00
Zactran® (gamathromycin)	macrolide	\$18.00
Zuprevo® (tildipirison)	macrolide	\$21.75
Baytril® (enrofloxacin)	flouroquinolone	\$17.00

## Drug Classes for Metaphylaxis









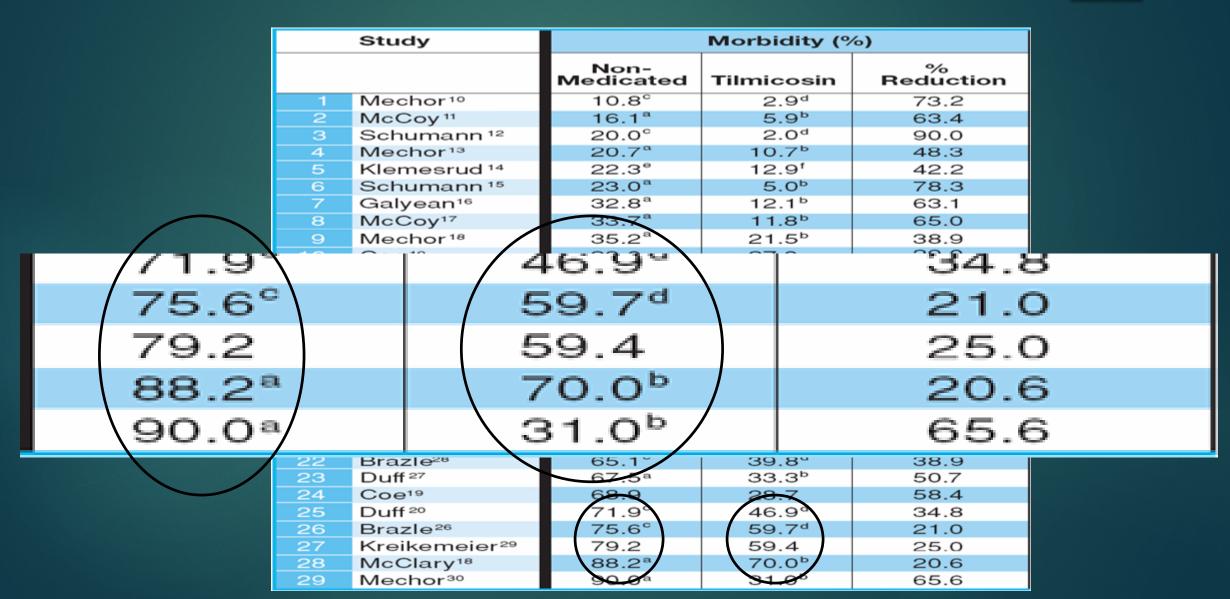








## Did metaphylaxis work?



#### When do calves treated on arrival get sick?

#### Metaphylaxis Continued from Page 1

**Table 1.** Comparison of health parameters between metaphylaxis treatment groups.

	Control	Tilmicosin	Florfenicol
Number	87	87	86
% treated for BRD	68.9	28.7	32.5
Median Days to 1st Tx	9	18	22
% M 9	18		

22

#### Treatment

Early identification and treatment are the most important factor in successful treatment of BRDC

# When do I switch antibiotics? (Calf)

Should give most modern long acting antibiotics 24-48 hours to work

- ▶ What is working?
  - ▶ 2-4 degree drop in temperature

# Stocker Production Economics

#### Scenario

- ▶ 500 pound LM1 \$2.33/lb March 1
- ► Grain Cost \$225/ton
- ► Hay Cost \$100/ton
- ▶ Pasture Cost \$8/month
- Treatment Cost \$25/ treatment (drugs and labor)
- 30 day confinement feeding
  - ▶ 2% bodyweight grain .5% bodyweight hay
  - ► ADG 1.5 lbs
- ► Grazing April 1 Sept 15

#### What is the impact of death loss on profitability?

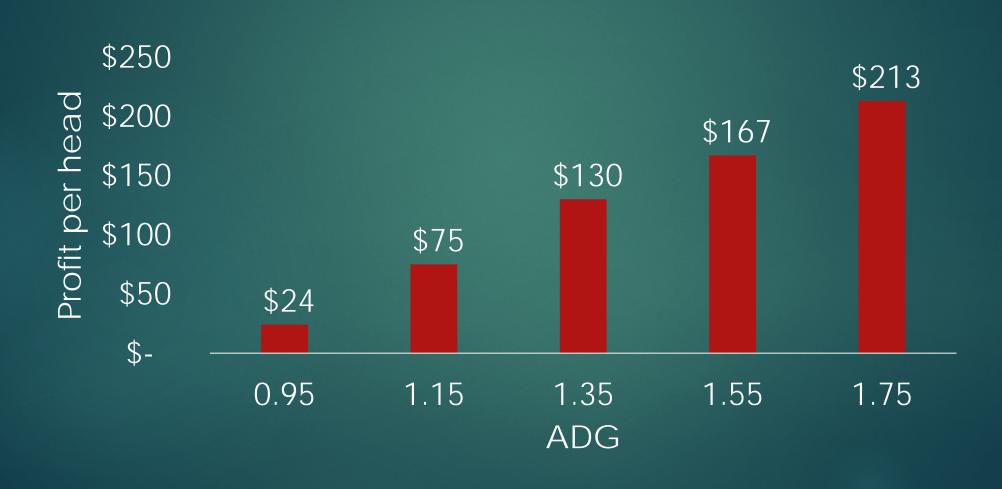
Baseline VQA calves 15% Treatment Rate 1% Mortality

Mortality	Profit	Change in Profit per head
1%	\$290	
2%	\$278	+\$34
3%	\$266	
4%	\$254	
5%	\$242	

## What is the impact of gain on Profitability? Baseline 1.75 ADG on grass \$0.06 Slide

ADG	Sale Weight	Profit
1.75	814	\$213
1.55	783	\$167
1.35	753	\$130
1.15	722	\$75
.95	695	\$24

## What is the impact of gain on Profitability? Baseline 1.75 ADG on grass \$0.06 Slide



## What is the impact of supplementing grazing cattle with grain?

- 2 pounds of supplemental grain \$200/ton
- ► Feed conversion 7.2:1 (2 pounds as fed resulting in 0.25 pounds additional gain
- ▶ \$0.06 slide

\$65/ head return to feeding labor and infrastructure

## Average Daily Gain is the most important factor in profitability

- 1. Potential for growth in calves purchased
- 2. Pasture quantity/quality
  - 1. Supplementation program
- 3. Deworming program
- 4. Implant program

# Pasture Quality/Quantity A new approach to grazing cattle in Virginia

## How can I achieve an ADG of ~ 2 pounds?

April-May
0 pounds
supplemental grain\*

June-July 2-3 pounds supplemental grain\* August-September 2-5 pounds of supplemental grain\*





\* Adjusted based on grass quality and quantity

Maximizing Average Daily gain

- 1. Quality Feed
- 2. Deworming Program
- 3. Implant Program
- 4. lonophore
- 5. Fly Control





#### Deworming Program

- 1 dose of Longrange
- ▶ 2 doses of Ivomec, Dectomax, Eprinex, or Cydectin
  - ▶ 5-7 weeks apart
- ▶ 3 doses of Safeguard, Valbazen, Synanthic
  - ▶ 3 weeks apart

#### Implant Program

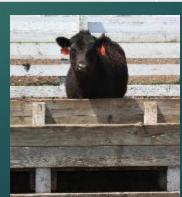
- ► At least 1 implant
- Consider double implanting or
- Using a long lasting implant
  - ► Compudose or Encore

#### 150 Stocker Cattle

Purchased January 500 lbs \$2.60 3% Death loss

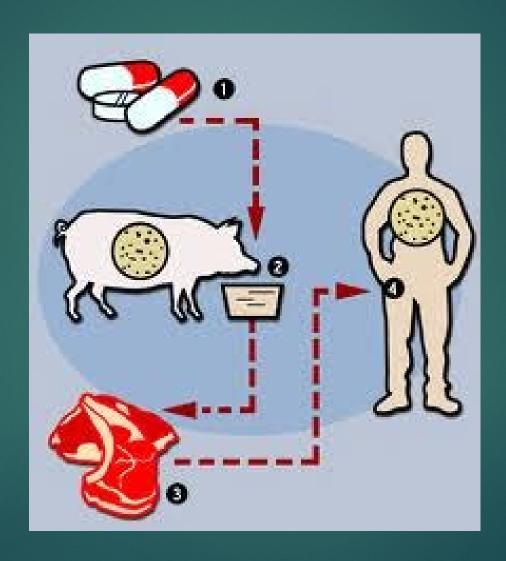
	Hay Diet	1% Bodyweight Grain	2% bodyweight grain
100 Days Backgrounding Gain	25 lbs	100 pounds	175 pounds
Grazing gain	285 lbs	250 lbs	220 lbs
Sell Weight	810 (September)	850 lbs August	900 lbs July
Sell Price	\$1.95	\$2.00	\$1.95
Net Profit	-\$32	\$31	\$66



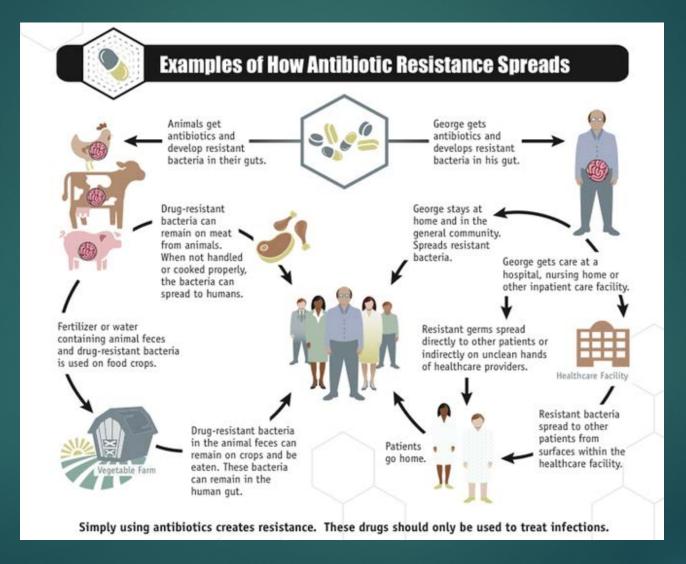


## What is changing in antibiotic usage?

#### Residue vs Resistance



#### Residue vs Resistance



## The sky isn't falling just yet

#### Changes are coming

There is a lot of pressure from outside sources to limit (eliminate) use of antibiotics in food animals

#### Antibiotic Classifications

#### Medically important

- ▶ Tetracyclines
- Macrolides
- ▶ Sulfas
- ► Fluorquinlones
- etc

#### Not medically important

- ▶ lonophores
- bacitracins

#### FDA Guidelines

► Have companies voluntarily remove all antibiotic labels for production purposes\* within the next three years from medically important antibiotics

\*Increased rate of growth or improvement in feed efficiency

#### FDA Guidelines

Use of antibiotics in feed for disease prevention will be allowed

► VCPR (Veterinary Client Patient Relationship) will be required for <u>all</u> use of antibiotics in feed

#### VFD

- ▶ Identify premise, species, and production class
- Duration of use and approximate number of animals to be fed
- ▶ VFD can be written for up to 6 months

No longer requires specific number of cattle and tons of feed

#### What does all this mean for you?

- You will have to have a relationship with a veterinarian if you want to use antibiotics in feed, mineral, or water.
- 2. Chlorotetracycline (CTC) mineral will require a label for a specific disease
  - 1. Anaplasmosis
  - 2. BRD Prevention or treatment
- 3. CTC crumbles and other feed and water antibiotics will require producers to have a VFD

### How much price difference is there between Front 40 cattle and back 40 cattle?

	Preconditioned Calves	Good Market Calves	Back 40 calves
Purchase Price	\$2.43	\$2.33	\$2.15
Sickness	10%	20%	40%
Death loss	1%	2%	4%
ADG	1.65	1.50	1.35
Selling Price	\$1.95	\$1.95	\$1.95
Selling Weight	775	760 lbs	730 lbs
Profit	\$157	\$157	S157

#### Conclusions

- Current cattle prices provide producers the opportunity to make more money than ever before
- Current cattle prices have greater risks than ever before
- Stocker producers have never been better compensated for doing things right
- Stocker cattle need to gain weight well to make money