



Your Health Management Plan for Feeder Cattle

UWEX Cattle Feeders Clinic

Dr. Larry Baumann, UWEX, UW-River Falls
Dr. Sarah Mills-Lloyd, UWEX, Oconto County
Dr. Sandy Stuttgart, UWEX, Taylor County
Dr. Amy Radunz, UW-River Falls





UNIVERSITY OF WISCONSIN **River Falls**

February 2015

Successful Cattle Feeding Program

- * Cattle Management/Enterprise Plan
- * Facilities and Labor Management Plan
- * Feed and Nutritional Management Plan
- * **Health Management Plan**
- * Marketing Management Plan

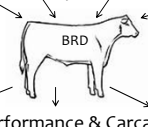


February 2015


Number #1 Health Concern

BRD = Bovine Respiratory Disease

Factors Influencing BRD
Nutrition Immunity Environment Stress





Health, Performance & Carcass Quality



February 2015

Why BRD Concern?

- * Economic Benefit
 - * Cattle are valuable!!!
 - * Disease Costs Money
 - * Poor Performance
 - * Labor and Therapy Costs
 - * Deaths
- * Stress Reduction
- * Welfare Benefit





February 2015

Effects on ADG & Deaths

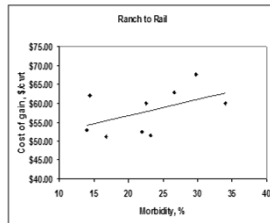
	Times Treated for BRD			
Gains or Deaths	0	1	2	3
ADG (lbs/day)	3.06 lbs	2.88 lbs	2.29 lbs	1.78 lbs
Deaths (%)	0.4 %	0.4 %	2.5 %	4.0 %

from: Montgomery et al., JAS, 2009

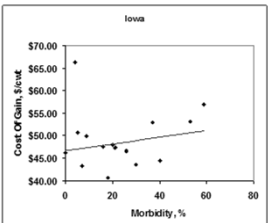



February 2015

Effects of Morbidity on Cost of Gain

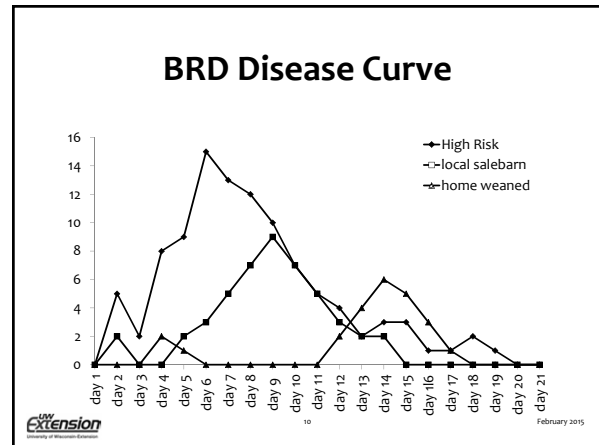
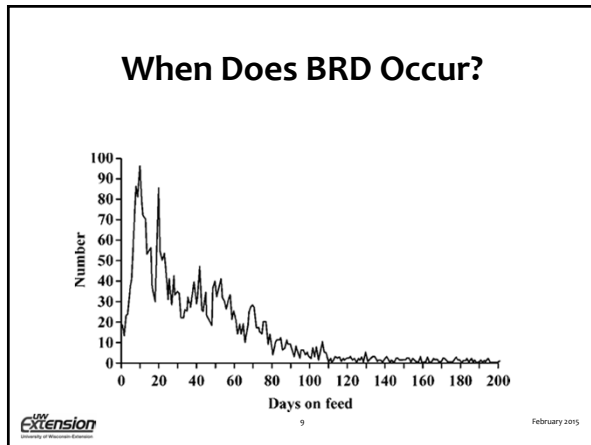
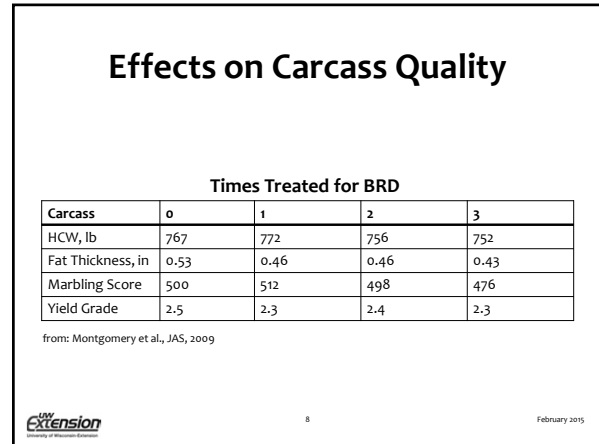
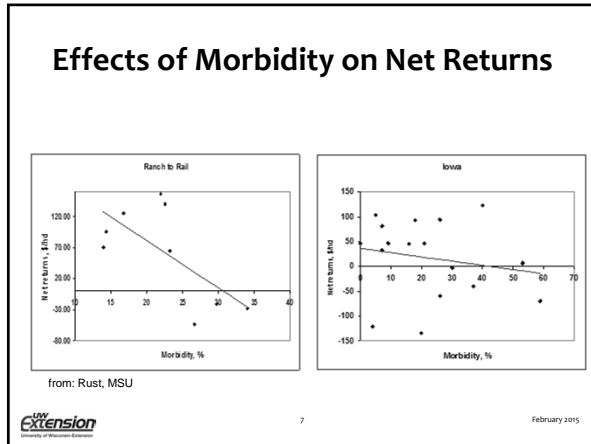


from: Rust, MSU





February 2015




- ### Risk Factors for BRD
- * Source of Cattle (sale barn vs direct source)
 - * Commingled Cattle vs Single Source Cattle
 - * Age & Size of Cattle
 - * Weather & Time of Year
 - * Pre-Vaccinated? Weaned? Castrated?
 - * Arrival Processing & Handling
- 11 February 2015

- ### Overview of a Health Plan
- * Arrival/Receiving/Processing Protocols
 - * Vaccinations
 - * Nutrition
 - * Stressors
 - * Facilities
- 12 February 2015

Initial Processing at Arrival



- * Rest new arrivals for 24 hrs prior to processing
- * Free-choice water
- * High quality grass hay - palatable, mold & dust free, feed in bunk with grain on top
- * Dry pens & bed if necessary (Not moldy corn stalks!)
- * Initial processing (IN vaccination, metaphylaxis, etc)



February 2015

Initial Processing at Arrival



- * Vaccinations for respiratory disease
 - * Viruses (IBR, BVD, PI3, BRSV)
- * Immunity Booster
 - * Multimin-90
- * Metaphylaxis
 - * Widely used in high-risk calves
 - * Proven to reduce BRD, improve performance, and be cost-effective
 - * Use only labeled antibiotics under guidance of a veterinarian

February 2015

Initial Processing at Arrival

- * Vaccinations against respiratory viruses
- * Viral pathogens set the stage for BRD
 - * Viruses (IBR, BVD, PI3, BRSV)
 - * Inforce 3[®] vaccine (IBR, PI3, BRSV)


February 2015

Initial Processing at Arrival

Multimin[®] 90 Injection at arrival

Carcass	Control	Multimin-90	P-value	MM-Interpret
HCW, lb	743	767	0.13	Higher wt
Fat Thickness, in	0.485	0.455	0.40	Less fat
Marbling Score	556	569	.53	Higher
Yield Grade	3.13	3.01	0.29	Lower


from: Genther & Hanson, ISU, 2012



February 2015

Initial Processing at Arrival

- * Metaphylaxis
 - * Widely used in moderate to high-risk calves
 - * Proven to reduce BRD, improve performance and be cost-effective
 - * Labeled antibiotics such as:
 - * Draxxin
 - * Excede
 - * Micotil
 - * Nufloer
 - * Zactran





February 2015

Criteria for VCPR

(Veterinary Client Patient Relationship)

- Veterinarian has :
 - Assumed RESPONSIBILITY for making clinical judgments
 - Sufficient knowledge of animal(s) and operation
 - Readily available or arranged for emergency coverage
 - Veterinary oversight of on-farm records, maintains patient records and maintenance of patient records
 - Veterinarian of Record





February 2015

Maintain a VCPR

(Veterinary Client Patient Relationship)

- * Written agreement: Veterinarian of Record
- * Written treatment protocols
- * Written/electronic treatment records
- * Veterinary Drug Order (VDO)
 - * Should be reviewed 2x per year
 - * List of prescriptions with route of administration and withdrawal time for ALL drugs used, including feed/water drugs used for therapeutic purposes



UW Extension University of Wisconsin-Extension 19 February 2015

Delayed Processing

- * 10-14 days after arrival
- * Vaccinations against bacterial respiratory disease
 - * Bacterial (Pasteurella, Mannheimia, etc)
 - * Endovac-bovi Beef (gram negative)
 - * Booster viral respiratory vaccines
- Deworming (Pour-On)
- Castration (dealing with stags/cryptorchids)
- Dehorning

UW Extension University of Wisconsin-Extension 20 February 2015

Nutrition

- * Free-choice water
- * High quality grass hay
- * Receiving ration
 - * Limited feed intake of a high concentrated grain mix (not free-choice to avoid acidosis)
 - * 1.5% BW is best measure for feeding rate
 - * 3% BW is full feed consumption, and limited feed is approximately 50% of full feed. They will consume the other 50% as dry hay.
 - * Coccidiostat (Deccox®, Rumensin®, Bovatec®, etc)

UW Extension University of Wisconsin-Extension 21 February 2015

Facilities

- * Water availability
- * Bunk space
 - * Train cattle to come to the bunk
 - * Adequate space per head (2 ft/head)
- * Shelter
 - * Dry
 - * Wind-Break

UW Extension University of Wisconsin-Extension 22 February 2015

Finding Sick Cattle

DART

- * → **D**epression
- * → **A**ppetite
- * → **R**espiration
- * → **T**emperature

UW Extension University of Wisconsin-Extension 23 February 2015

Treatment Protocols

- * Inspect for sick animals at least once per day
- * Animals must be easily identified (ear tags, etc)
- * Drug treatment protocols
- * Record-keeping

UW Extension University of Wisconsin-Extension 24 February 2015

Drugs Available for BRD Treatment Protocols

Name	Drug	Dose/100 lbs	Cost/cc	Cost/500 lb	Frequency	Slaughter Hold
LA200	Oxytetracycline	4.5 cc	\$0.20	\$5	Repeat in 48 hrs	28 days
Advocin	Danofloxacin	1.5 cc	\$1.60	\$12	Repeat in 48 hrs	4 days
Micotil	Tilmicosin	1.5 cc	\$1.60	\$12	Once	28 days
Excede	Ceftiofur	1.5 cc	\$1.75	\$13	Once	13 days
Zactran	Gamithromycin	1.8 cc	\$1.40	\$13	Once	35 days
Baytril	Enrofloxacin	5.0 cc	\$0.60	\$15	Once or multiple	28 days
Nuflor	Florfenicol	6.0 cc	\$0.67	\$20	Once-SubQ; IM-Repeat in 48 hrs	28 days IM, 38 days SubQ
Draxxin	Tulathromycin	1.1 cc	\$4.00	\$22	Once	18 days

UW Extension University of Wisconsin-Extension February 2015



References

- Sale Barn Receiving Health Program for Beef Cattle, Zen Miller, Bill Halfman, Amy Radunz, UWEX, May 2010, <http://outagamie.uwex.edu/files/2010/08/WBIR-Sale-Barn-Receiving.pdf>
- Recommendations for Receiving Cattle: Health and Nutrition, Reid McDaniel & Russ Daly, Dec 10, 2014, Wisconsin Beef Information Center, <http://www.wisconsinbeef.com/>
- Recommendations for Receiving Cattle: Health and Nutrition, Reid McDaniel & Russ Daly, Dec 5, 2014, iGrow, <http://igrow.org/livestock/beef/recommendations-for-receiving-cattle-health-and-nutrition/>
- Preparing the Beef Calf for Weaning, Russ Daly, Aug 6, 2014, iGrow, <http://igrow.org/livestock/beef/preparing-the-beef-calf-for-weaning/>
- Investigation of the Impact of Mineral Status and Use of an Injectable Mineral on Beef Cattle Performance, Olivia Genther & Stephanie Hansen, A.S. Leaflet R1693, ISU Animal Industry Report-2012, <http://www.ans.iastate.edu/report/air/2012pdf/R1693.pdf>
- Bovine Respiratory Disease in Feedlot Cattle: Environmental, Genetic, and Economic Factors, Snowder, et al, JAS 84:1999-2008, 2006
- Contributions from Dr. Amy Radunz, UW-River Falls
- WI Beef Information Center, <http://www.wisconsinbeef.com/>
- Plasma metabolites of receiving heifers and the relationship between apparent bovine respiratory disease, body weight gain, and carcass characteristics, Montgomery, et al, Journal of Animal Science, 87(1):328-333, Jan 2009

UW Extension University of Wisconsin-Extension February 2015

Questions?

- * Larry Baumann, DVM, Professor, UW-Extension, UW-River Falls, 715-425-3187, larry.baumann@uwrf.edu
- * Sandy Stuttgen, DVM, Asst. Professor, UW-Extension, Taylor County, 715-748-3327, sandystuttgen@ces.uwex.edu
- * Sarah Mills-Lloyd, DVM, Asst. Professor, UW-Extension, Oconto County, 920-834-6845, sarah.mills-lloyd@co.oconto.wi.us

UNIVERSITY OF WISCONSIN River Falls February 2015