

Commercial Feeder Results Lower Morbidity, Higher Profits

Investigators:

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Study Site:

Five Rivers Cattle, Kuner, CO,
Feedlot

Methods / Materials

- Total of 3,147 Steers
- Arrival: September 22 - October 31, 2005
- Purchase pay-weights of 500 to 600 pounds
- Sorted 3 x 3 x 3 by truck-load at arrival
- Random processing order and pen assignment
- Within block – located on same alleys
- All steers located in one section of the feedlot
- 10 blocks (10 pens per treatment)
- 30 pens allocated to study

Morbidity Results

Item	PYRAMID [®] 5	Bovi-Shield [®] GOLD [™] 5	Bovi-Shield [®] GOLD [™] IBR BVD	P-Value
Pens, %	10	10	10	–
First Pull, %	40.83 ^a	45.83 ^b	44.17 ^{ab}	0.09
Relapse ^c , %	14.92 ^a	19.09 ^b	18.53 ^b	0.04
Total Relapse ^c , %	20.95 ^a	29.48 ^b	28.63 ^b	0.0005

^{a, b} Means within a row with different superscripts differ (see respective P-Value). Means were separated when treatment was significant ($P \leq 0.10$).

^c The Relapse category assumes an animal was counted once regardless of the number of times the animal was re-pulled or retreated. The Total Relapse category assumes an animal was counted more than one time, that is, if an animal was retreated or re-pulled more than one time.

Mortality and Railer Results

Item	PYRAMID [®] 5	Bovi-Shield [®] GOLD [™] 5	Bovi-Shield [®] GOLD [™] IBR BVD	P-Value
Pens	10	10	10	–
Deads - BRD, %	3.08	3.95	4.31	0.31
Deads - All, %	4.51	5.88	6.34	0.19
Rail - BRD, %	0.47 ^a	1.59 ^b	1.59 ^b	0.06
Rail - All, %	1.50	2.16	2.34	0.37

^{a, b} Means within a row with different superscripts differ (see respective P-Value). Means were separated when treatment was significant ($P \leq 0.10$).



PYRAMID[®] 5

with MetaStim[®]

Stimulating
Results 

Economic Results

Item	PYRAMID [®] 5	Bovi-Shield [®] GOLD [™] 5	Bovi-Shield [®] GOLD [™] IBR BVD	P-Value
Pens	10	10	10	–
Treatment	\$20.09 ^a	\$23.88 ^b	\$22.88 ^b	0.02
Railer	\$2.25 ^a	\$7.27 ^b	\$7.02 ^b	0.03
Rail + Treat	\$22.34 ^a	\$31.15 ^b	\$29.90 ^b	0.005
	\$8.81			
Dead	\$23.56	\$30.24	\$31.63	0.52
All	\$45.90	\$61.39	\$61.53	0.15
	\$15.49			

^{a, b} Means within a row with different superscripts differ (see respective P-Value). Means were separated when treatment was significant ($P \leq 0.10$).

Summary

- Administration of PYRAMID 5 decreased morbidity compared to Bovi-Shield GOLD 5
 - 11 percent reduction in first pulls
 - 22 percent reduction in relapses
 - 70 percent reduction in railers
- Trend towards lower BRD mortality (25 percent numerical reduction) for PYRAMID 5 versus the two Bovi-Shield GOLD treatments
- Little difference in value when comparing Bovi-Shield GOLD 5 to Bovi-Shield GOLD IBR BVD
- PYRAMID 5 versus Bovi-Shield GOLD 5
 - \$8.81 benefit (Statistical Difference) in net return by using PYRAMID 5 without consideration for mortality
 - \$15.49 benefit (Numerical Difference) in net return by using PYRAMID 5 considering mortality

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