

Effects in Price When Looking at Different Protein and Ammonium Chloride Sources A.M. Craig, R.J. Sorensen, A.R. Crane, J.M. Lattimer, and C.K. Jones

Introduction

- Price is a huge factor when it comes to producing livestock especially when looking at alternate feed ingredients. As goat populations increase throughout the world there is little information for Boer producers to look at and rely on.
- Dried distillers grain with soluble (DDGS) are a relatively cheap and ample feed source here in the Mid-West.

Objective

• To analyze the effects of varying protein and ammonium chloride (AmCl) sources incorporation on feedlot goat growth and carcass traits.

Experimental Procedures

- There were 5 treatments with 75 grower Boer goats, that were randomly divided into pens of 3 with 5 pens per treatment.
- Treatments consisted of:
 - 1) 18.7% SBM with 0.75% AmCl
 - 2) 34.4% SBM with 0.75% AmCl
 - 3) 22% SoyPlus with 0.75% AmCl
 - 4) 17.2% SMB with 4.83% SoyChlor
 - 5) 20% SoyPlus with 4.83% SoyChlor.
- For 14d prior to experiment start goats were fed step rations.
- The goats were fed their treatment diet for 42d.
- The goats received a constant supply of feed with mo feed added when the feeder was half or below half f
- The goats and their feeders were weighed weekly on Friday.
- ADG, ADFI, and G:F will be calculated every week usi Microsoft Excel.
- \$/kg of feed was calculated by multiplying the perceived of the ingredient included in the diet by the ingredient as of September 1, 2018.
- \$/goat was calculated by multiplying the feed cost by the quantity of feed consumed during the 42 d experiment.
- \$/kg of grain was calculated by dividing the feed cost per goat by the body weight gained per goat during the 42 d experiment.



ADG D 0-42 Gain: Feed

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Treatment

	Different Protein and Chloride sources								<u> </u>
	Protein source:	SBM	DDGS	SoyPlus	SBM	SoyPlus			SBM vs.
							SEM	Treatment	DDGS
	Chloride source:	AmCl	AmCl	AmCl	SoyChlor	SoyChlor			
p-up	BW, kg								
ore full.	d 0	24.7	23.4	22.2	24.0	23.3	1.07	0.570	0.442
	d 42	30.1	29.0	27.0	31.4	29.8	1.39	0.284	0.311
	ADFI, g/d	2,810	2,780	2,392	3,228	2,804	211.5	0.140	0.367
	G:F	0.024	0.020	0.024	0.024	0.026	0.0022	0.431	0.152
1	Feed cost								
ing	\$/kg of feed	0.166	0.138	0.179	0.190	0.196	_	_	_
	\$/goat	19.60	16.07	18.03	25.82	23.14	1.142	0.001	0.001
ntage			Con	clusio	ns				Ackr
							全然后经济的中国生产 。		

• In general there was no significant change (P>0.05) in the ADG and G:F in all of the diets fed. There was a significant difference in price between DDGS with AmCl than the rest of the treatments.

DDGS with AmCl was about \$0.14 which is about \$0.06 cheaper than SoyPlus and SoyChlor. Which is important due to the fact that there was no big change in growth performance.

Experimental Period Results

Growth Performance Results

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