Impact of protein source and ammonium chloride inclusion on Boer goat growth and carcass quality

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Introduction

- There is very limited information out there about goat nutrition and only one known study about the impact of feeding dried distillers grains with solubles (DDGS) to goats.
- DDGS are a relatively cheap and abundant feed source.
- There are 1.01 Billion goats worldwide

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Objective

- To evaluate carcass characteristics on Boer-influenced goats after being fed varying protein sources and evaluating the price of each treatment

Experimental Procedures

- 75 Boer goats, approx. 90d of age, were divided randomly into pens of 3 per treatment.
- Treatments consisted of:
  1) SBM with AmCl
  2) DDGS with AmCl
  3) SoyPlus with AmCl
  4) SBM with SoyChlor
  5) SoyPlus with SoyChlor
- For 14d prior to experiment start goats were fed step-up rations
- The goats were fed their treatment diet for 42d after the step up diet is complete.
- The goats were fed as needed and the amount fed was weighed and recorded.
- The goats and their feeders were weighed weekly.
- ADG, ADFI, and G:F will be calculated every week.
- Carcass traits were calculated at the end of the experiment.

Summary & Conclusions

- Overall there was no significant change (*P*<0.05*)* in G:F and carcass traits observed in those fed diets with DDGS as opposed to those without.
- This study suggests that inclusion of SoyPlus does not impact goat growth/performance but there are marginal effects on carcass traits: Hot carcass weight, loin eye area, back fat depth

Acknowledgements

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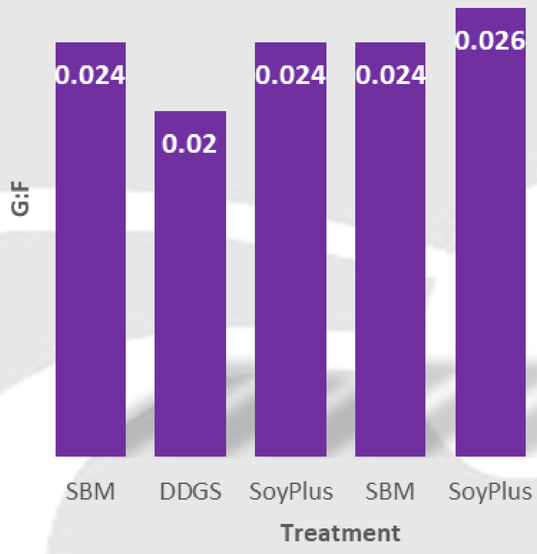
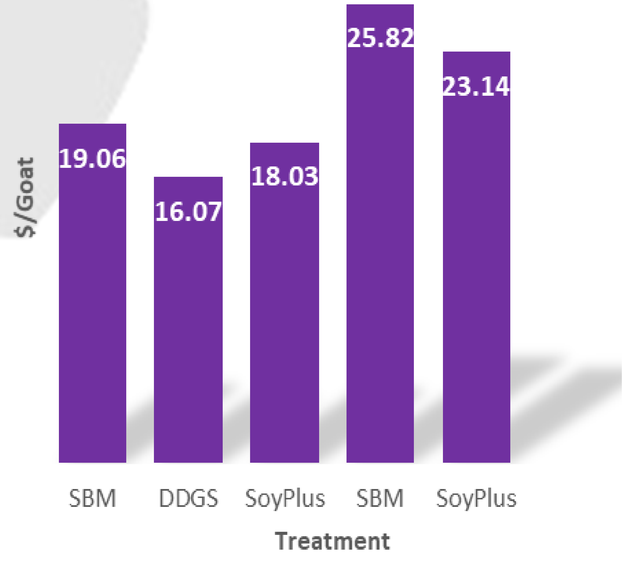
D 0-42 Gain: Feed



Feed Cost, $/Goat



P-Values for G:F & Feed Cost/Goat

		P=			
SEM	**Treatment**	**SBM vs. DDGS**	**SBM vs. SoyPlus**	**DDGS vs. SoyPlus**	**AmCl vs. SoyChlor**
0.0022	0.431	0.152	0.653	0.077	0.257
1.412	0.001	0.001	0.0149	0.017	<0.0001