



Evaluating Dried Distillers Grains with Solubles or Corn Gluten Feed as a Replacement for Soybean Meal in Boer-Type Goat Grower Rations

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Introduction

The Boer goat population in the United States has been increasing rapidly over the last decade. With an increased goat population, more producers are looking for an economical ration to feed to growing goats. However, there is little published research about goat nutrition and economical feed rations. One opportunity to reduce cost is to replace soybean meal with corn co-products. For example, dried distillers grains with solubles (DDGS) or corn gluten feed (CGF) are relatively inexpensive protein sources in comparison to soybean meal (SBM). Therefore, a better understanding of how DDGS and CGF impact goat growth is important in making economically sound production decisions.

Objective

To evaluate the effect of DDGS or CGF replacing SBM on Boer type goat growth performance

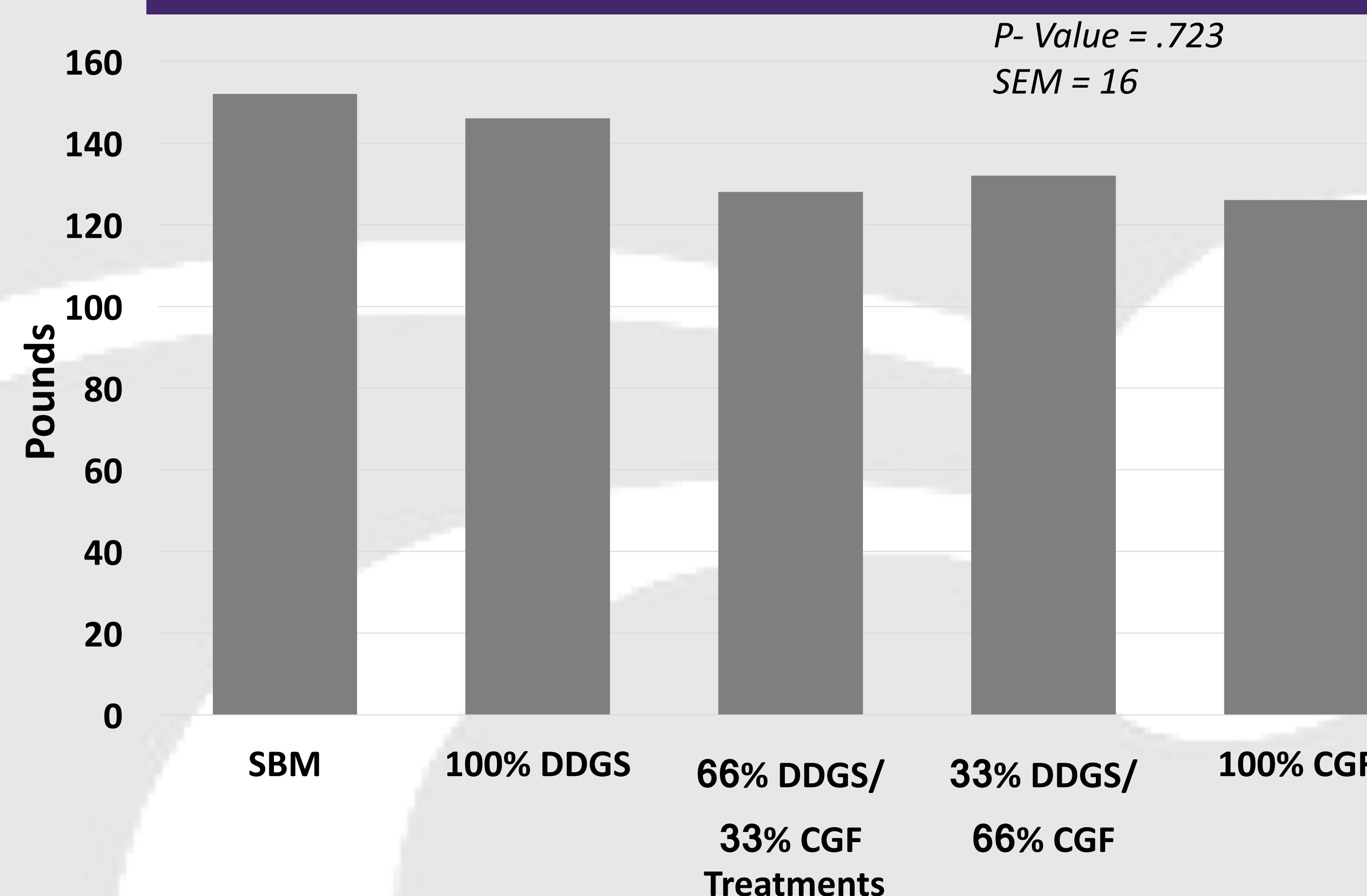
Experimental Procedures

- Seventy- five Boer type goats (26.9± .2 kg) were randomly allotted to one of 5 dietary treatmetns
- The treatments include
 - Soybean Meal
 - 100% DDGS/ % CGF
 - 66% DDGS/ 33% CGF
 - 33% DDGS/ 66% CGF
 - 0% DDGS/ 100% CGF
- The experimental unit was the pen with 3 goats/pen and 5 pens/treatment
- A completely randomized design was utilized
- Goats and feeders were weighed weekly to evaluate ADG, ADFI, and G:F
- Data was analyzed using the GLIMMIX procedure of SAS with 0.05 as the accepted alpha value

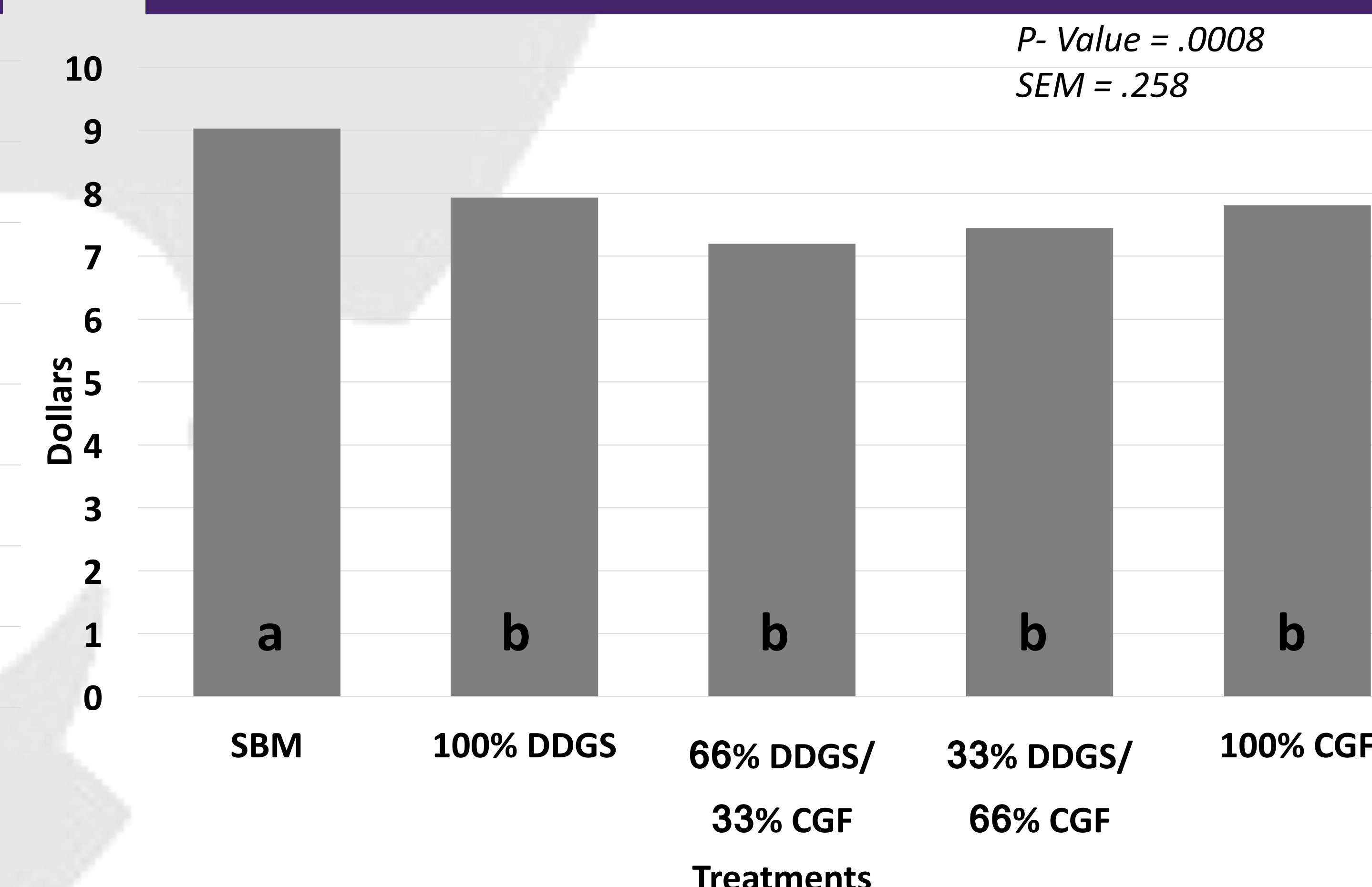
Diet Formulation

	SBM Control	100% DDGS	66% DDGS/ 33% CGF	33% DDGS/ 66% CGF	100% CGF
Corn dried distillers grains with solubles	0	20.2	13.5	6.8	0
Soybean meal, 48% CP	15	0	0	0	0
Corn	42.7	11.5	13.7	15.8	18
Soybean hulls	35.7	62.2	54.2	46.2	38.1
Molasses	2.5	2.5	2.5	2.5	2.5
Ammonium chloride	1	1	1	1	1
Limestone	1.58	1.23	1.48	1.73	1.98
Salt	0.5	0.5	0.5	0.5	0.5
Se Selenite	0.001	0.0001	0.001	0.0001	0.009
Vit A 30,000	0.015	0.015	0.015	0.015	0.015
Vit D 30,000	0.004	0.004	0.004	0.004	0.004
Vit E 20,000	0.001	0.001	0.001	0.001	0.001
Copper sulfate	0.008	0.008	0.008	0.008	0.008
Zn Oxide	0.008	0.008	0.008	0.008	0.008
Monocalcium phosphate	0.96	0.83	0.55	0	0

ADG



Feed Costs Per Goat



Summary and Conclusions

- There was no evidence among the varying diets that impacted body weight ($P= .999$), average daily gain ($P= .723$), average daily feed intake ($P= .210$) and feed to gain ratio ($P= .796$)
- There was evidence that the corn co-product feeds are a less expensive feed cost per goat ($P= .0008$)
- There was no evidence ($P= .941$) that cost per kg of gain was less for goats fed the corn co- products
- Producers can see that there is not significant difference in growth performance in goats fed SMB, CGF, or DDGS as their protein source and can make their decision based on economics



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