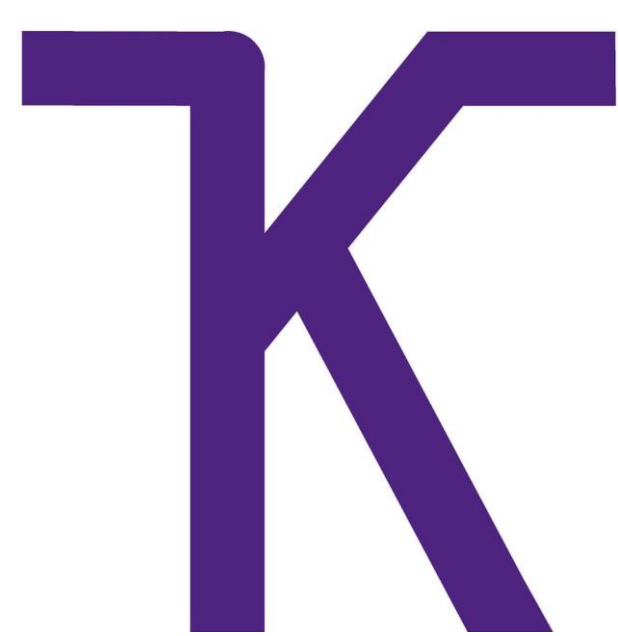




Effects of replacing Soybean Meal with Dried Distillers Grain with Solubles in a Boer goat diet

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Introduction

- There are 1.01 Billion goats worldwide.
- The world goat population continues to increase and last year the Kansas goat population alone increased by 7.4%
- 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.

Objective

- To evaluate the effects of replacing SBM with DDGs on growth performance and carcass quality in Boer goat diets.

Experimental Procedures

- 48 grower Boer goats, approx. 70d of age, were divided randomly into pens of 3 with 4 pens per treatment.
- Treatments consisted of:
 - 1) 0% SBM replaced with DDGS
 - 2) 33% SBM replaced with DDGS
 - 3) 66% SBM replaced with DDGS
 - 4) 100% SBM replaced with DDGS.
- For 14d prior to experiment start goats were fed step-up rations.
- The goats were fed their treatment diet for 47d after the step up diet is complete.
- The goats were fed daily 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.



Conclusions

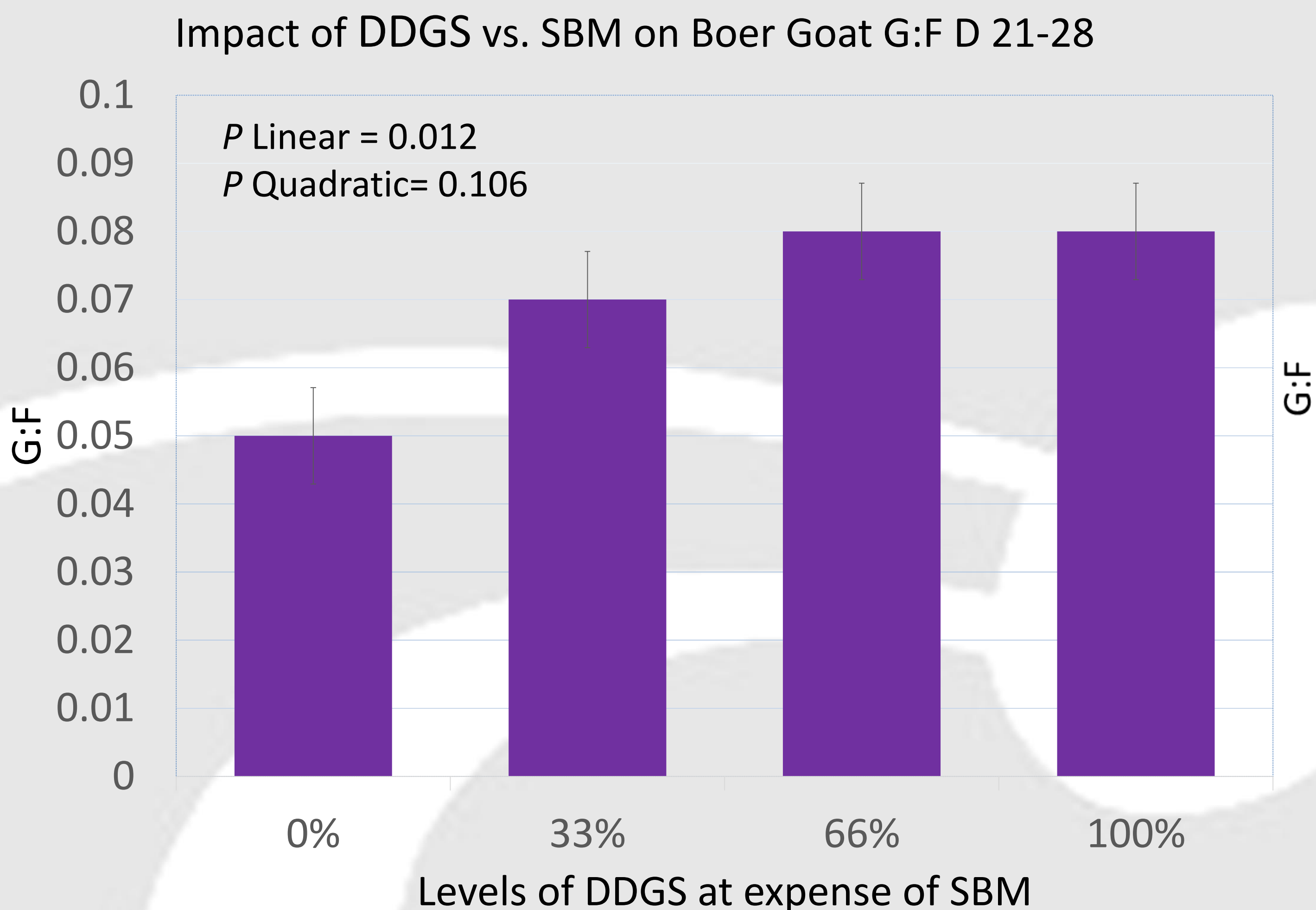
- Overall there was no significant change ($P>0.05$) in the ADFI and carcass traits observed in those fed diets with DDGS as opposed to those without.
- There was a linear increase ($P<0.05$) in G:F and ADG in goats fed a DDGS diet verses those without.

Acknowledgements

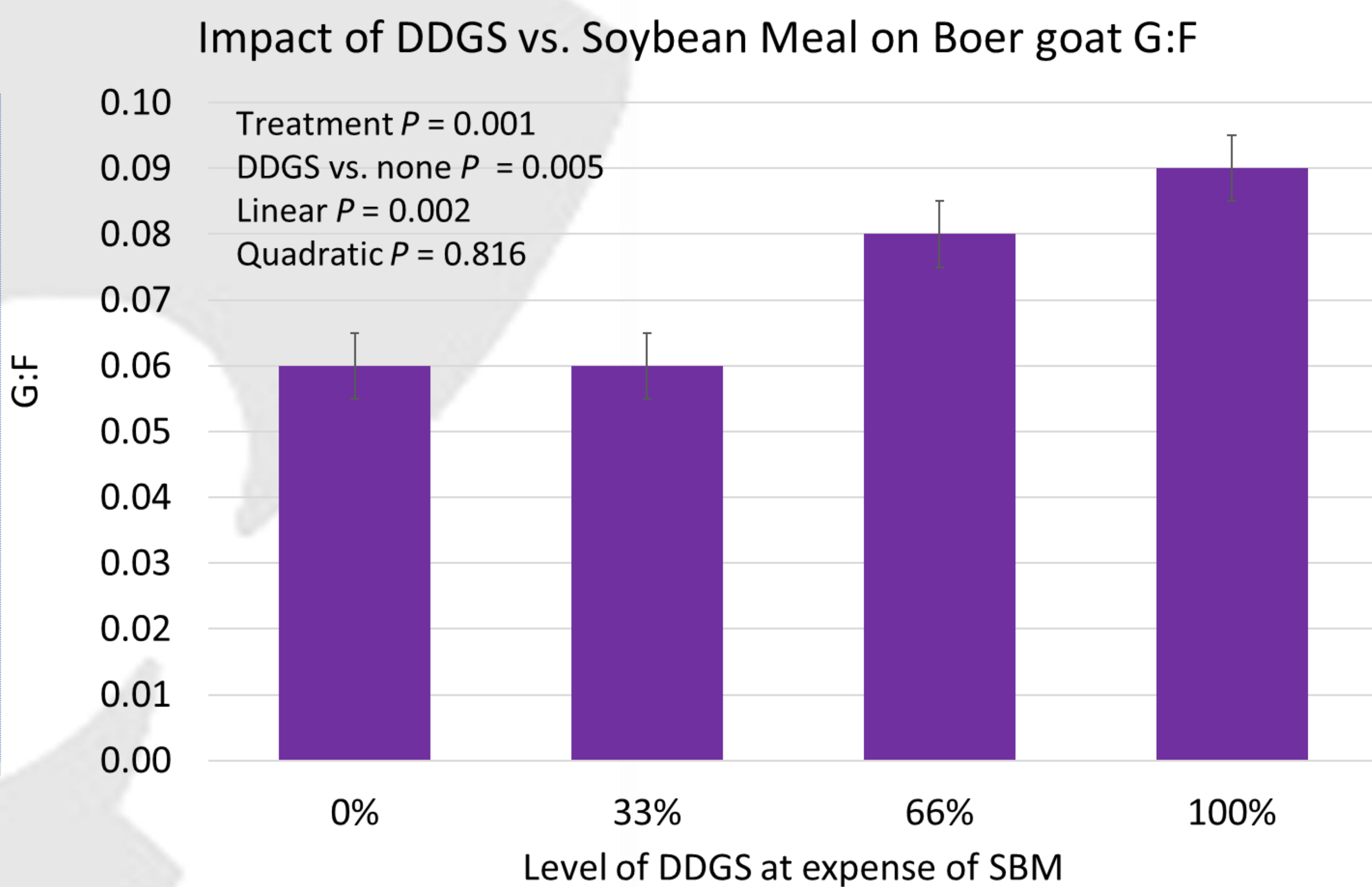
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Experimental Period Results

D 21-28 Average Daily Gain



D 0-47 Gain: Feed



Carcass Trait Results

	DDGS inclusion in place of SBM %						DDGS Vs None	P=	
	0%	33%	66%	100%	SEM	Treatment		Linear	Quadratic
Hot Carcass Weight, kg	18.4	18.4	19.6	19.8	1.03	0.674	0.480	0.262	0.935
Carcass yield, %	49.4	48.9	50.3	48.6	0.79	0.478	0.878	0.737	0.437
Loin eye area, cm ²	11.6	13.1	13.3	13.5	0.95	0.505	0.140	0.183	0.503
Loin eye depth, cm	0.44	0.43	0.47	0.42	0.022	0.498	0.845	0.763	0.501
Backfat depth, mm	14.4	14.4	14.4	15.6	2.40	0.977	0.881	0.729	0.796
Body wall thickness, cm	0.24	0.27	0.26	0.28	0.022	0.649	0.250	0.260	0.777