

Introduction

- Distiller’s dried grains with solubles (DDGS) are a co-product of the ethanol industry
- Compared to soybean meal (SBM), DDGS are relatively inexpensive and readily available
- Published DDGS studies in Boer goats are extremely limited and understanding the effects of feeding DDGS as a cost effective replacement to SBM would benefit goat producers
- With an increase in U.S. goat production, understanding economical feed alternatives such as DDGS can provide valuable implications for producers

Objective

Evaluate the efficacy of DDGS as a replacement for SBM in a Boer influenced goat diet

Experimental Procedures

- Forty-eight Boer influenced goats (wethers and does; avg. 28.2 ± 3.15 kg) were used
- Goats were stratified by BW into 16 pens (4 pens/treatment; 3 goats/pen)
- Prior to start of feeding trial, goats were exposed to a 14 d step up period
- Two-day weights were measured at the beginning and end of the trial
- Goats were fed specified treatments for 42 d
- All treatments were isonitrogenic and isocaloric
- Feed and water were provided *ad libitum*
- Goats were weighed and feed disappearance measured weekly
- At conclusion of feeding trial, goats were processed and HCW measured

Dietary Treatments

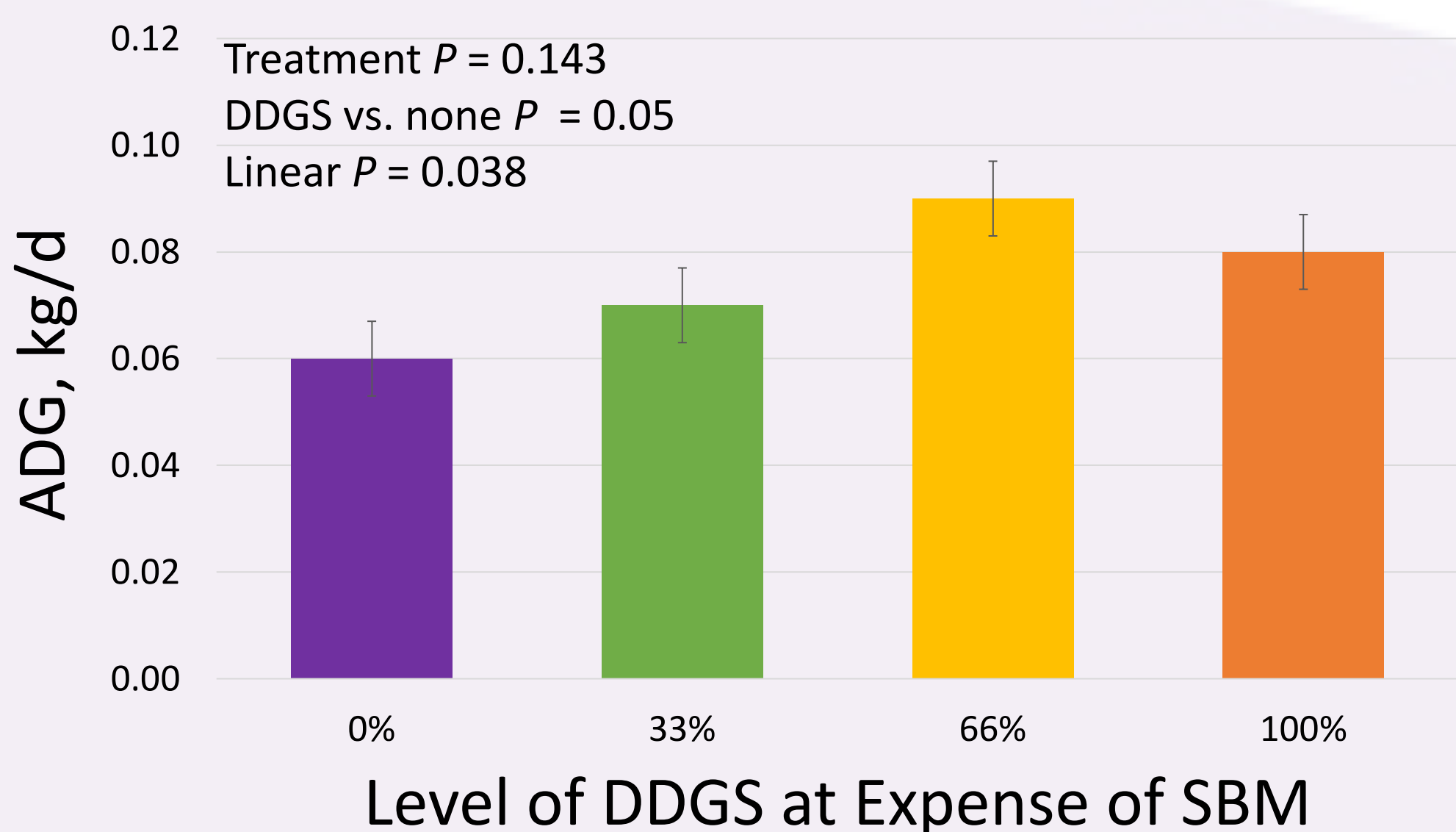
- Trt 1: 0% DDGS
- Trt 2: 33% of SBM replaced with DDGS
- Trt 3: 66% of SBM replaced with DDGS
- Trt 4: 100% of SBM replaced with DDGS

	Crude Protein	Crude Fat	Crude Fiber	Digestible Energy, Mcal	Ca:P	\$/Ton
Trt 1	16%	2.5%	9.8%	1.5	2.5	\$162.00
Trt 2	16%	3.3%	9.8%	1.5	2.5	\$152.62
Trt 3	16%	3.8%	8.6%	1.5	2.5	\$143.14
Trt 4	16%	4.8%	8.4%	1.5	2.5	\$134.73

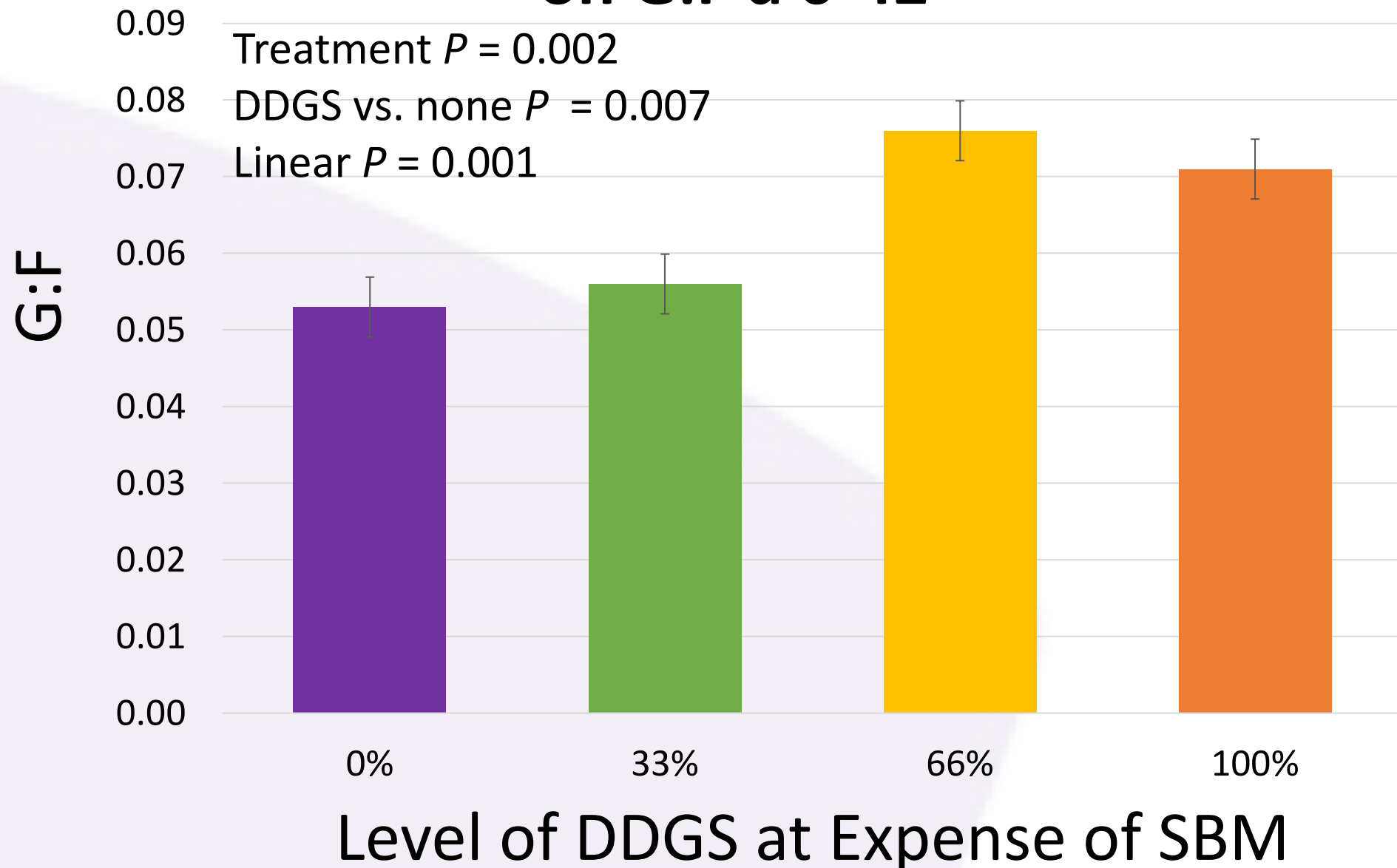


Results

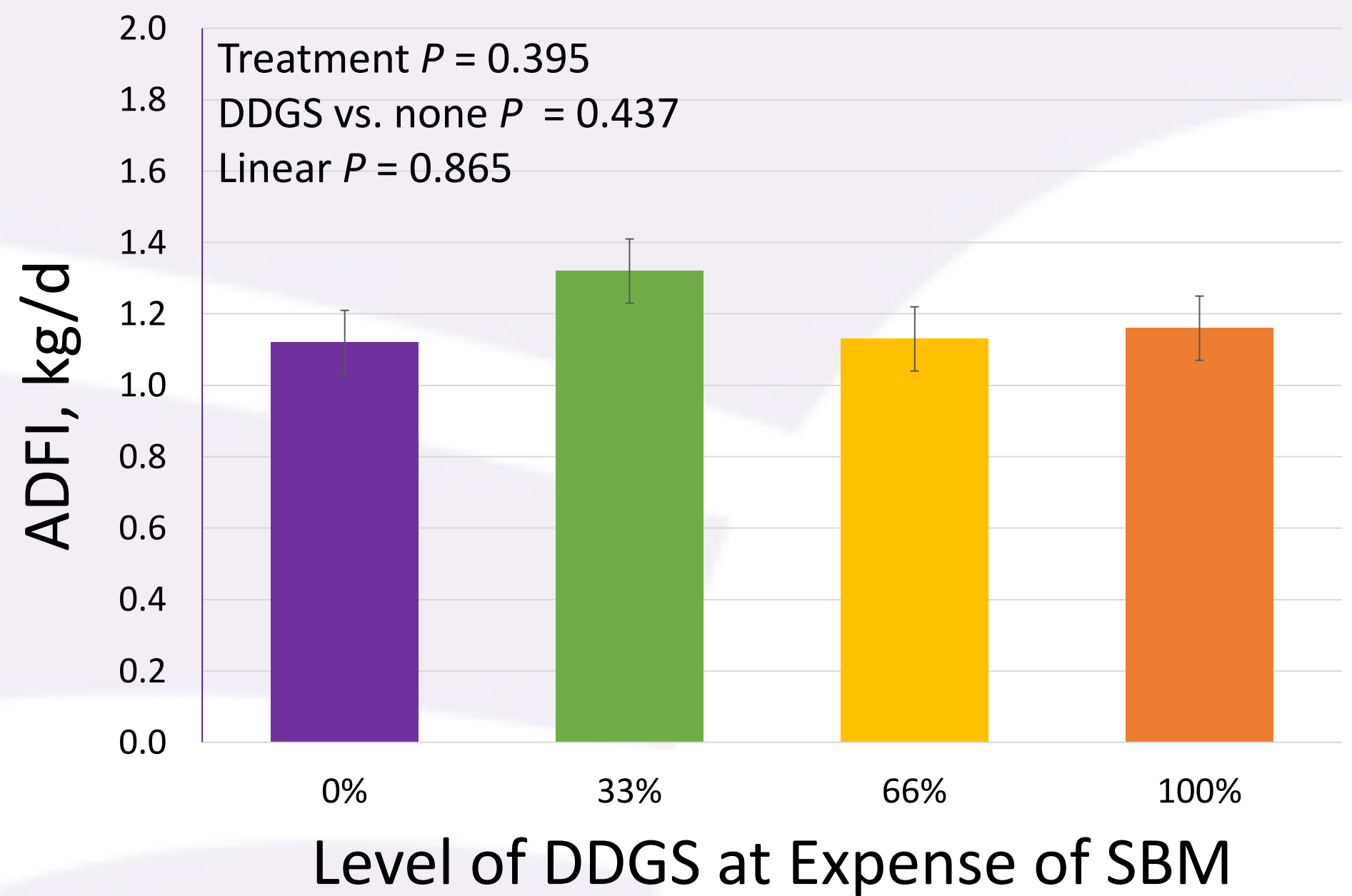
Effect of Increasing DDGS Concentrations on ADG d 0-42



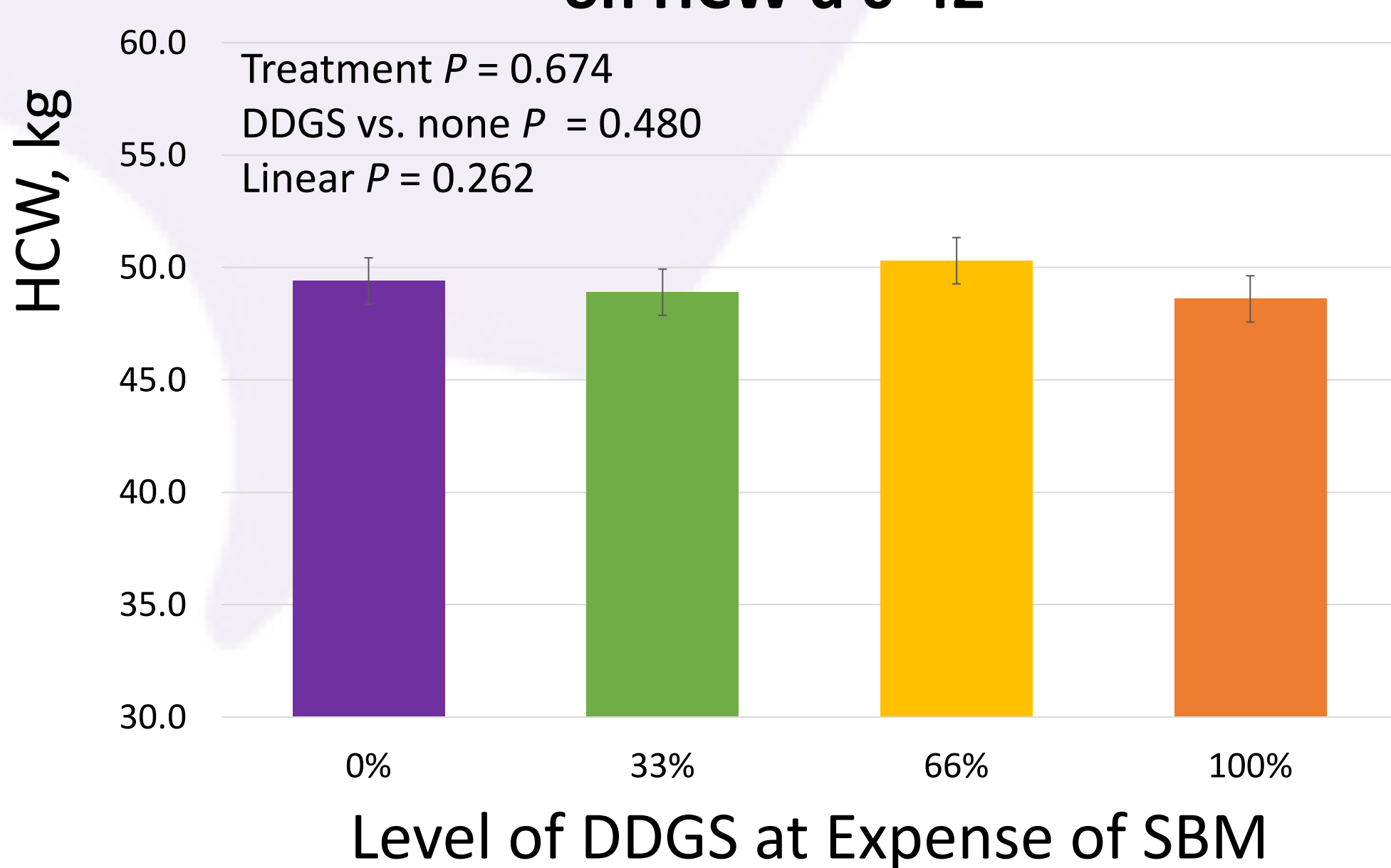
Effect of Increasing DDGS Concentration on G:F d 0-42



Effect of Increasing DDGS Concentration on ADFI d 0-42



Effect of Increasing DDGS Concentration on HCW d 0-42



Summary and Conclusion

- Replacement of SBM with DDGS at any inclusion level linearly improved ($P < 0.05$) ADG and G:F
- No evidence ($P > 0.05$) that inclusion of or increasing DDGS concentrations had an effect on ADFI or HCW
- The addition of DDGS at any inclusion level positively impacted growth performance and reduced feed cost
- In conclusion, these results confirm that DDGS can be used to replace SBM in the diet
- Economic implications of this trial indicate at current commodity prices, replacing 100% of SBM with DDGS (Trt 4) results in a savings of \$1.76/hd

