

Evaluation of Elarom SES in Nursery Diets with the Inclusion of Varying Levels of Intellibond C

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Introduction

- Elarom SES is a feed additive comprised of medium chain fatty acids, phenolic compounds, long-chain carbohydrates, and organic acids.
- Intellibond C is a form of tri-basic copper chloride that is a bioavailable source of Cu.
- Literature has shown that both of these technologies may improve nursery pig growth performance.
- However, previous research has not explored their interactive effects when fed together.

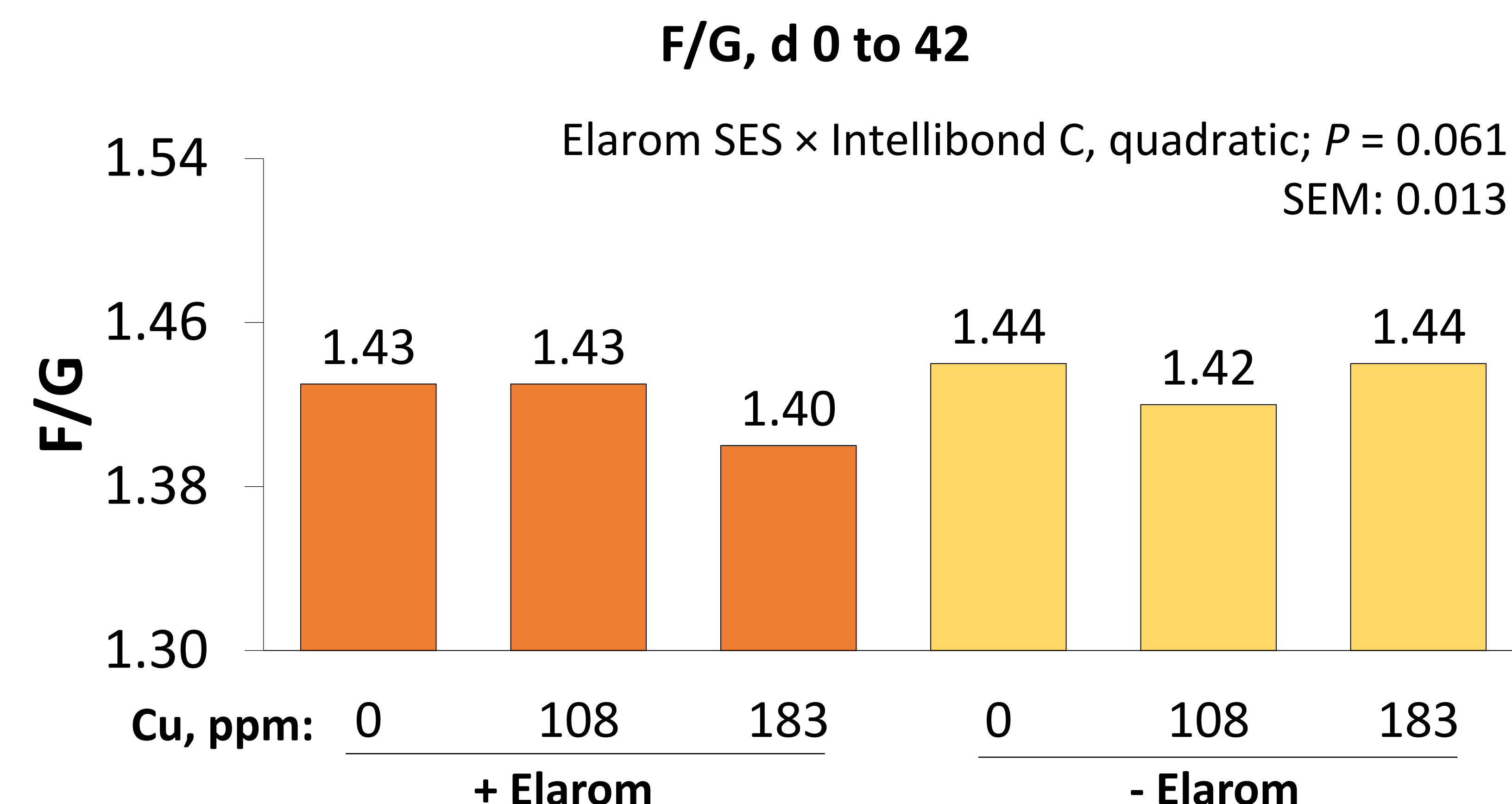
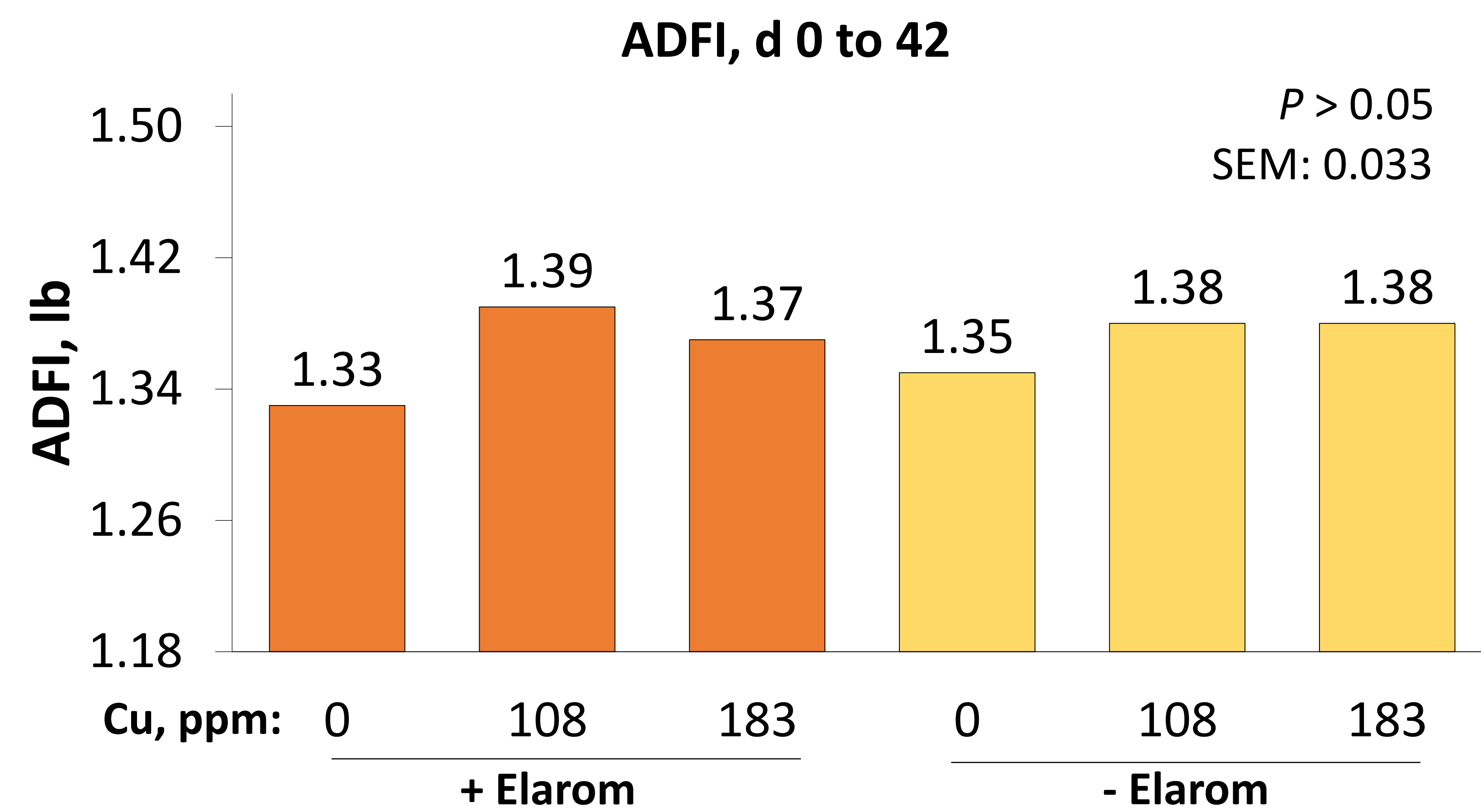
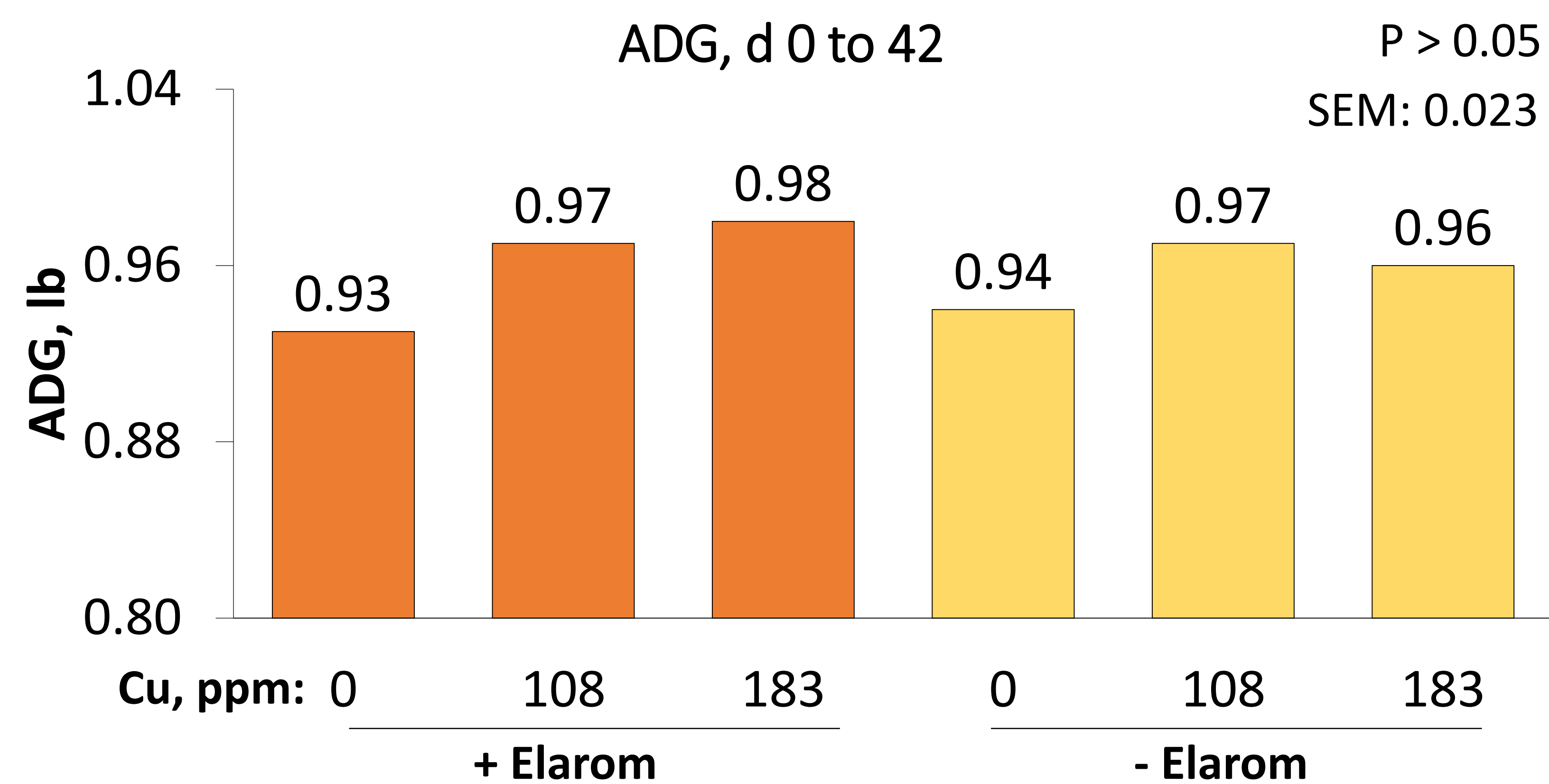
Objective

To compare the growth performance and fecal consistency of nursery pigs fed diets containing increasing levels of Intellibond C and/or Elarom SES.

Experimental Design

- 360 pigs (DNA 200 X 400; initially 11.5 lb BW) were used in completely randomized block design with 6 dietary treatments.
- There were 5 pigs/pen and 12 replications/treatment.
- The 6 treatments were arranged in a 3 × 2 factorial with main effects of Intellibond C (none, 108, or 183 ppm Cu from d 21 to 42) or Elarom SES (none vs. 0.2% from d 0 to 42).
- Diets were fed in 3 phases from d 0 to 7, 7 to 21, and 21 to 42.
- Pigs and feeders were weighed every 7 d to determine ADG, ADFI, and F/G.
- Fecal scoring of pens occurred on d 0, 4, 7, 14, 21, 28, 35, and 42 by visual appraisal of the pen floor using a 1 to 5 scale (1 indicating hard pellet type feces and 5 indicating watery, liquid feces).
- Growth data were analyzed as a randomized complete block design using the PROC GLIMMIX procedure of SAS (SAS Institute, Inc., Cary, NC) with pen as the experimental unit.

Results



Discussion

- From d 0 to 21, there were no differences in growth performance observed in pigs fed Elarom SES.
- From d 21 to 42, there were no differences in growth performance observed in pigs fed Elarom SES and/or Intellibond C.
- Overall (d 0 to 42), a tendency for an Elarom SES × Intellibond C quadratic interaction was observed for F/G. The tendency was a result of F/G being improved at the intermediary level of Intellibond C without inclusion of Elarom SES, but F/G only being improved at the highest level of Intellibond C inclusion when Elarom SES was present.
- There was no evidence for difference (P > 0.05) for treatment effects on fecal scores.

Summary and Conclusions

- In summary, this data suggests that feeding different levels of Intellibond C with the inclusion of Elarom SES has no effect on nursery pig performance.
- More research is warranted to determine why beneficial responses observed in previous trials were not observed in this study.

