



# FOCUS ON RESEARCH



## ORIGINAL XPC™ SUPPORTS PRODUCTION OF AFLATOXIN-CHALLENGED BROILERS

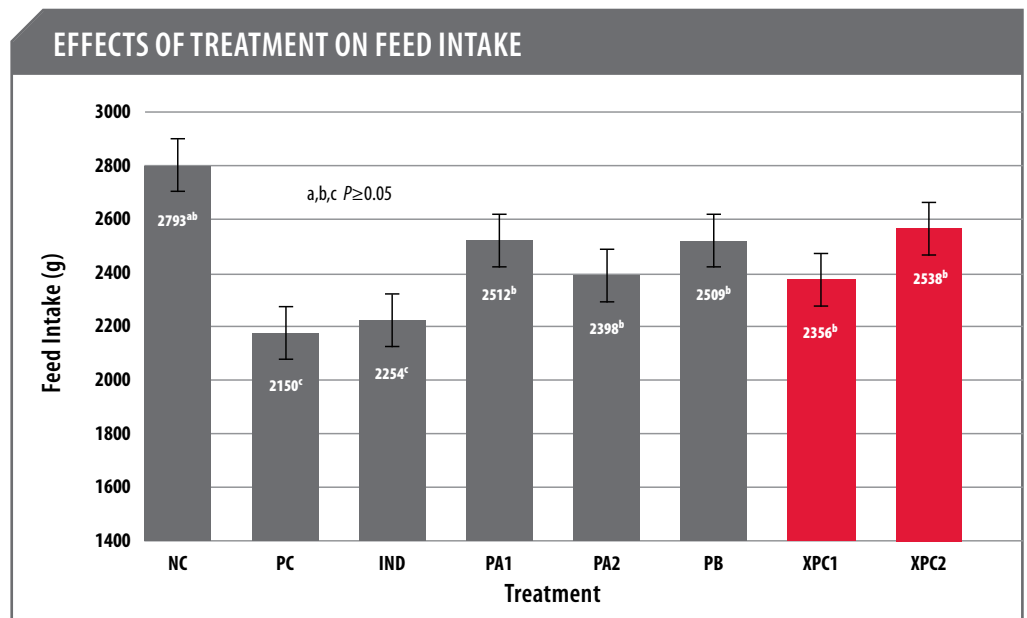
A summary of research performed at Iowa State University<sup>1</sup> evaluate the effects of Original XPC supplementation and prototypes on the performance and health of broiler chickens exposed to aflatoxin.

### RESEARCH SUMMARY

- 28 day trial with Ross 308 male broilers from 6-33 days of age.
- Variables measured: feed intake, body weight, and organ weight (d28).
- Each treatment consisted of 8 replicates/treatment and 3 birds/replicate.
- Broilers were challenged with 2500 ppb of aflatoxin.
- Treatments consisted of:
  - Negative Control (NC)- No additive, no aflatoxin challenge
  - Positive Control (PC)- No additive, aflatoxin
  - Company A adsorbent (IND)- Industry product, aflatoxin
  - Prototype A, 0.1% (PA1)- Prototype A, aflatoxin
  - Prototype A, 0.2% (PA2)- Prototype A, aflatoxin
  - Prototype B, 0.15% (PB)- Prototype B, aflatoxin
  - XPC, 0.0625%, (XPC1)- XPC, aflatoxin
  - XPC, 0.125%, (XPC2)- XPC, aflatoxin

### RESULTS

Original XPC and prototypes decreased the impact of aflatoxin on feed intake when compared to the positive control and industry adsorbent ( $P < 0.05$ ).

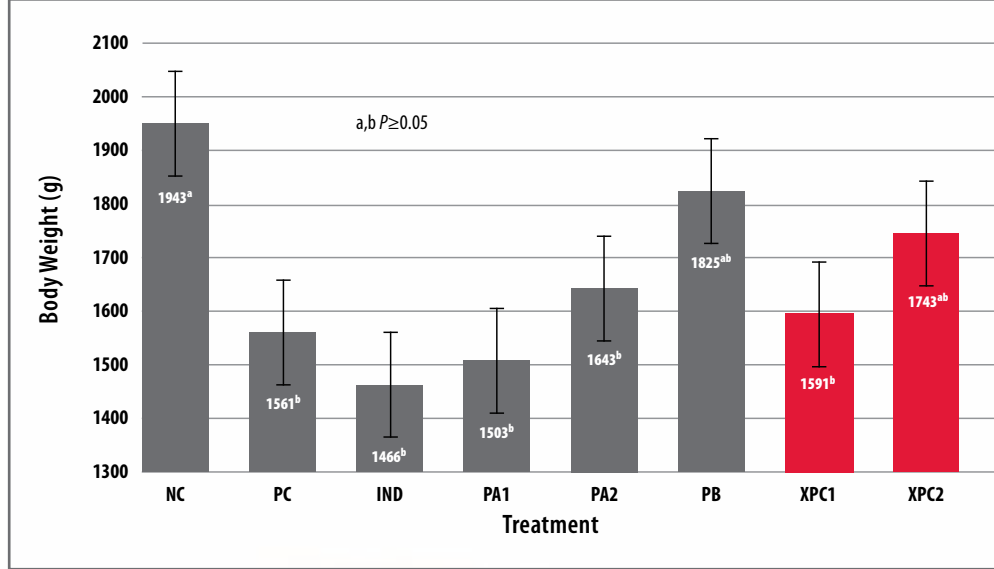


<sup>1</sup>Original XPC was fed at 0.0625% and 0.125% for XPC1 and XPC2, respectively.

**RESEARCH SUMMARY**

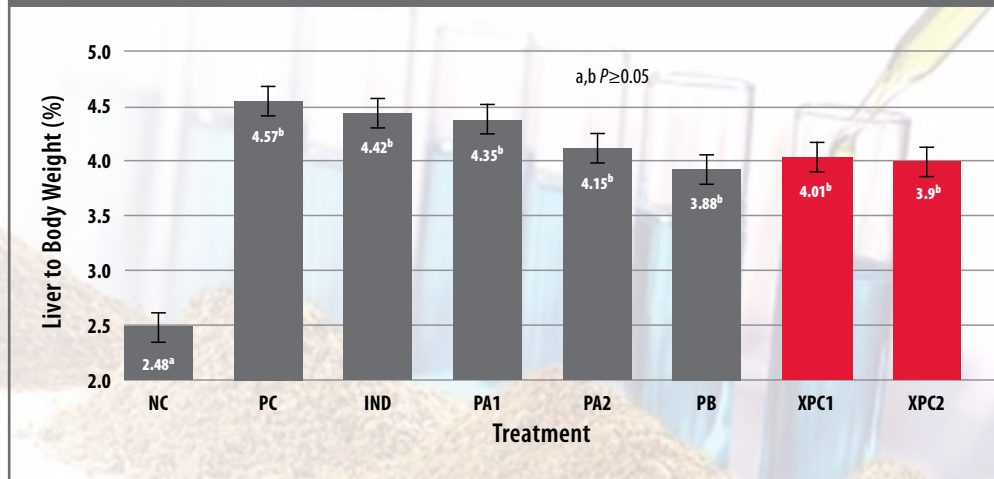
Broilers receiving PB and XPC2 did not have decreased body weight due to aflatoxin when compared to the NC ( $P < 0.05$ ).

**EFFECTS OF TREATMENT ON ENDING BODY WEIGHT**



Aflatoxin increased liver to body weight percentage ( $P < 0.05$ ). However, the Original XPC and PB treatments had numerically lower percentage of liver to body weight compared to the PC.

**EFFECTS OF TREATMENT ON LIVER TO BODY WEIGHT**



<sup>1</sup>Osweller, G.D., S.M Ensley, S. Jagannatha, S.W. Trampel, P. Imerman, I. Yoon, and D.T. Moore, 2008. Evaluation of XPC™ and prototypes on aflatoxin challenged broilers. 97th Annual Poultry Science Meeting: 307.

If you would like more information on this study, please contact your local Diamond V representative.

©2012 Diamond V Mills, Inc. All rights reserved. Diamond V® is a registered trademark and Original YC™, XP™, and XPC™ are trademarks of Diamond V Mills, Inc.

2525 60th Avenue SW | Cedar Rapids, IA 52404 | USA  
 TF: 800.373.7234 | Phone: +1.319.366.0745 | [diamondv.com](http://diamondv.com)



DAIRY | BEEF | POULTRY | SWINE | EQUINE | MULTI-SPECIES | AQUA | PET | SPECIALTY

FOR\_P0209\_0512