



# FOCUS ON RESEARCH



## EFFECTS OF ORIGINAL XPC™ ON PERFORMANCE OF BROWN STRAIN LAYERS

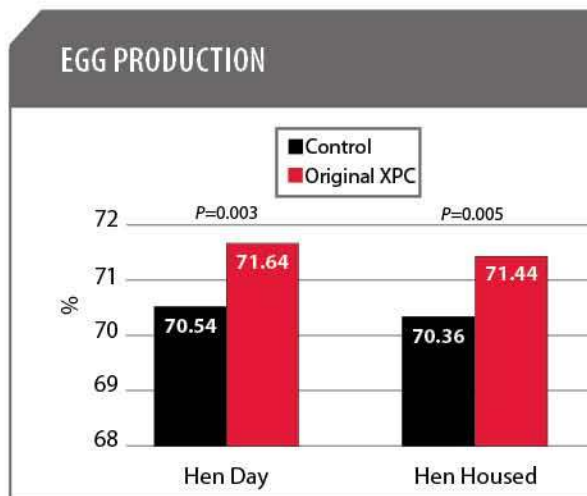
Research was conducted by North Carolina State University to evaluate the effects of Original XPC on brown strain layer egg production and egg quality.<sup>1,2</sup>

### RESEARCH SUMMARY

- This study was concurrent with the 38th North Carolina Layer Performance and Management Test
- Approximately 3,731 layers from 7 different brown strains were used in the study
  - 91 replicates/feed treatment
- Treatments
  - Control
  - Original XPC (1.5 lb/ton)
- 16 week study (4 – 4 week Periods, representing weeks 17-33 of production)
  - May through August 2010
- Production performance and feed intake
  - Periods 1, 2, 3, and 4 (17-33 weeks)
- Feed conversion and egg quality
  - Periods 2, 3, and 4 (21-33 weeks)

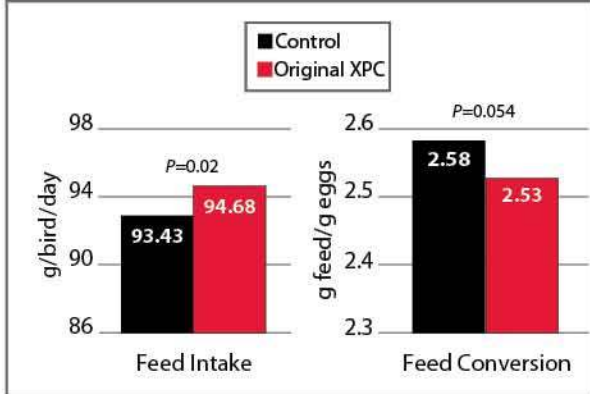
### RESULTS

- Hens fed Original XPC had significantly greater hen day ( $P = 0.003$ ) and hen housed ( $P = 0.005$ ) production compared to the control fed hens.



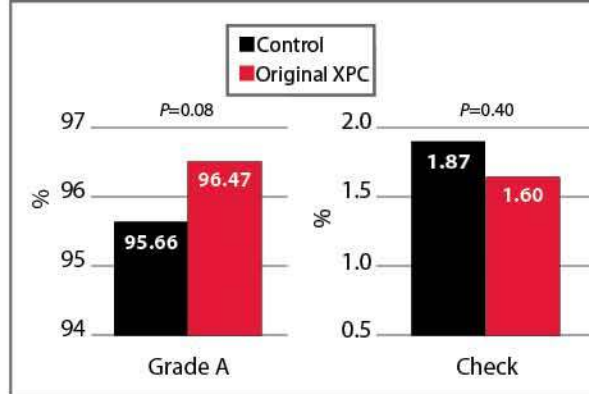
RESEARCH SUMMARY

FEED INTAKE AND CONVERSION



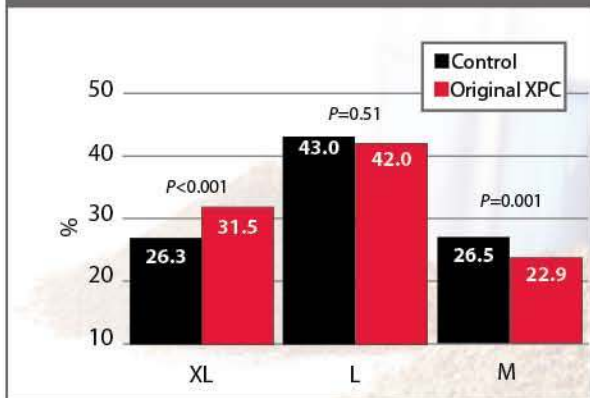
- Feed intake was significantly increased in Original XPC fed hens ( $P = 0.02$ ) while feed conversion tended to be improved ( $P = 0.054$ ).

EGG QUALITY



- Feeding Original XPC tended to increase the percentage of grade A eggs ( $P = 0.08$ ) and reduce the percentage of check eggs ( $P = 0.40$ ).

EGG SIZE



- Egg size was significantly increased in hens fed Original XPC. There were no differences in the percentages of small or pee wee eggs, however when feeding Original XPC, the percentages of medium eggs was reduced ( $P = 0.001$ ) and extra-large eggs was increased ( $P < 0.001$ ).

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

<sup>1</sup>Anderson, K. E. and J. Frank. 2011. Effects of Original XPC on Performance of Layers. International Poultry Scientific Forum, Atlanta, GA. Abstract #145, pg. 43.

<sup>2</sup>This research study is still active. The data shown represent approximately half of the layer's production cycle.

©2011 Diamond V Mills, Inc. All rights reserved. Diamond V<sup>®</sup> is a registered trademark and Original XPC<sup>™</sup> is a trademark of Diamond V Mills, Inc.

