



# FOCUS ON RESEARCH

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

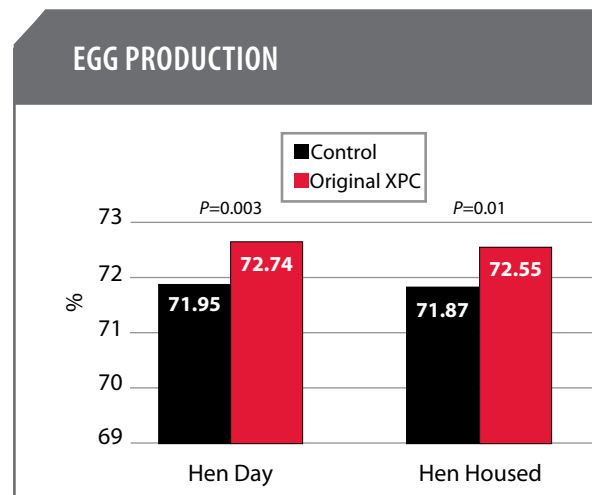
Research was conducted by North Carolina State University to evaluate the effects of Original XPC on white strain layer egg production and egg quality.<sup>1,2</sup>

### RESEARCH SUMMARY

- This study was concurrent with the 38th North Carolina Layer Performance and Management Test
- Approximately 5,863 layers from 11 different white strains were used in the study
  - 143 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)

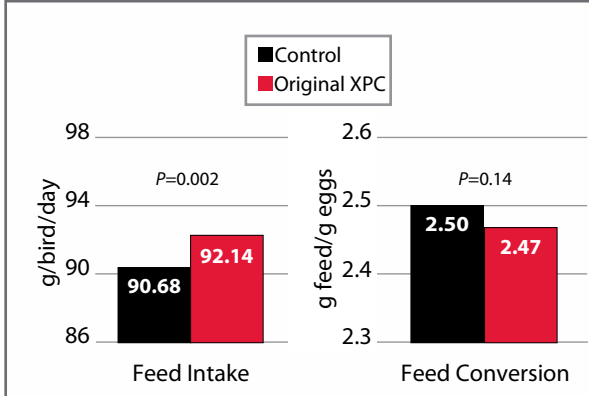
### RESULTS

- Hens fed Original XPC had significantly greater hen day ( $P = 0.003$ ) and hen housed ( $P = 0.01$ ) production compared to the control fed hens.



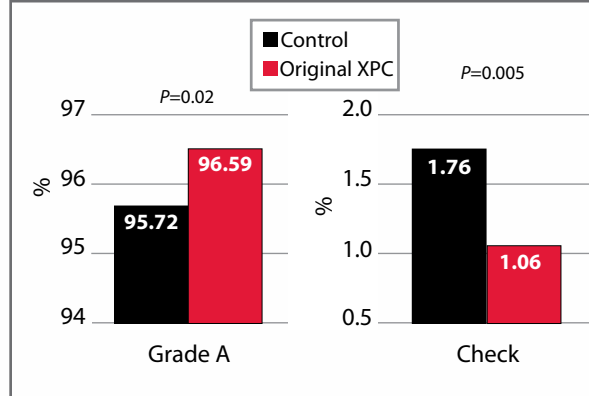
RESEARCH SUMMARY

FEED INTAKE AND CONVERSION



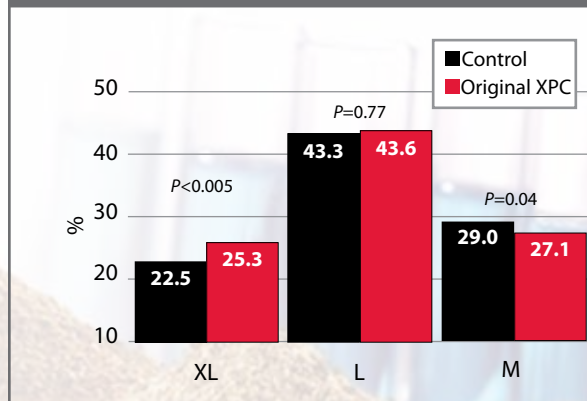
- Feed intake was significantly increased in Original XPC fed hens ( $P = 0.002$ ) while feed conversion was numerically improved ( $P = 0.14$ ).

EGG QUALITY



- Feeding Original XPC increased the percentage of grade A eggs ( $P = 0.02$ ) and decreased the percentage of check eggs ( $P = 0.005$ ).

EGG SIZE



- Egg size was significantly increased in hens fed Original XPC. There were no differences in percentages of small or pee wee eggs, however feeding Original XPC reduced the percentage of medium eggs ( $P = 0.04$ ) and increased the percentage of extra-large eggs ( $P < 0.005$ ).

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.

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