



FOCUS ON RESEARCH

EFFECTS OF ORIGINAL XPC™ ON BROILER BREEDER PERFORMANCE AND SUBSEQUENT PROGENY PERFORMANCE

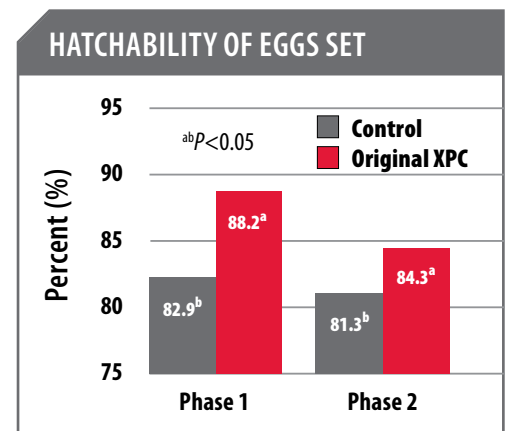
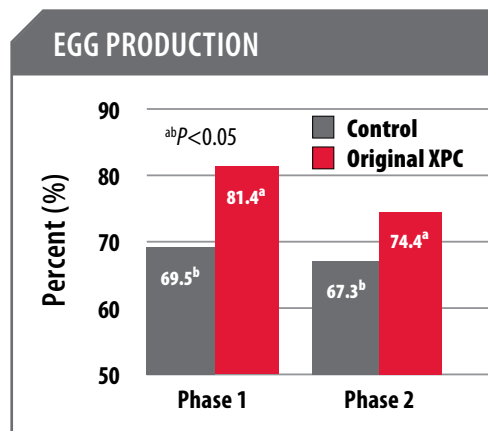
University research^{1,2} was conducted to evaluate egg production, fertility of eggs and progeny performance from Cobb 500 breeders fed Original XPC.

RESEARCH SUMMARY

- Forty eight, 24-week-old Cobb 500 broiler breeder hens
- Hens were placed in 16 floor pens, with 3 hens per pen and 8 replicate pens per treatment
- Dietary treatments were Control or 0.75 kg/Tonne Original XPC
- Egg production measured from 24-32 weeks (Phase 1) and 33-39 weeks (Phase 2)
- Hens were inseminated at 31 and 38 weeks and eggs set at 32 and 39 weeks
- Hatchability and fertility, as well as chick quality, were measured during each Phase
- 384 chicks hatched, 96 from each hen treatment and Phase were raised in floor pens of 12 chicks per pen, 8 replicate pens per treatment (within Phase)
- All progeny were fed Control feed to determine maternal effects of Original XPC feeding
- Progeny performance and breast meat yield were measured at 46 days of age

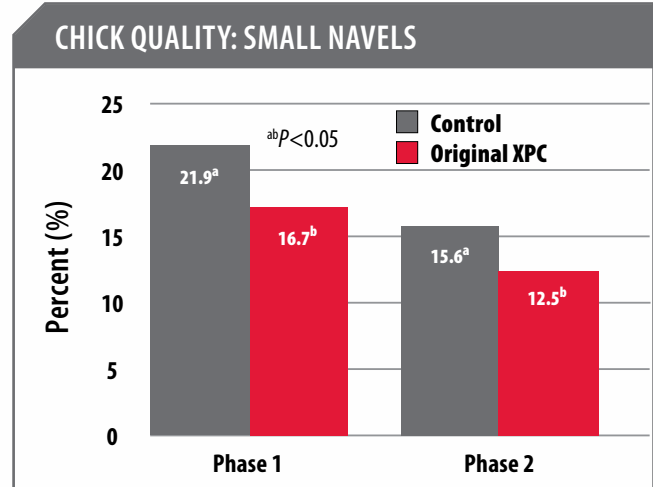
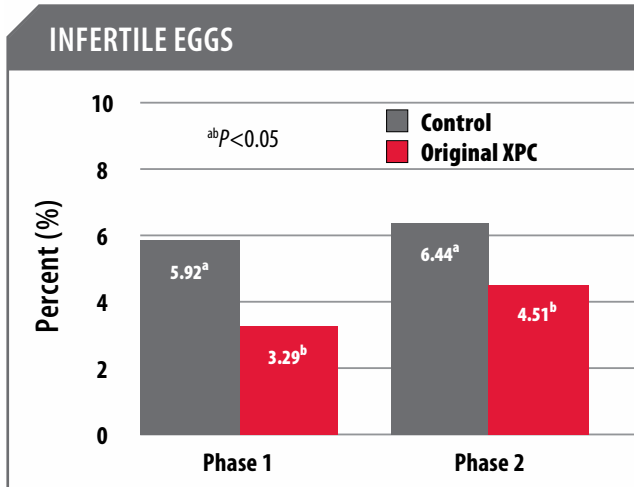
RESULTS

- Hens fed Original XPC had significantly higher ($P < 0.05$) egg production and hatchability of eggs set during Phase 1 and Phase 2.

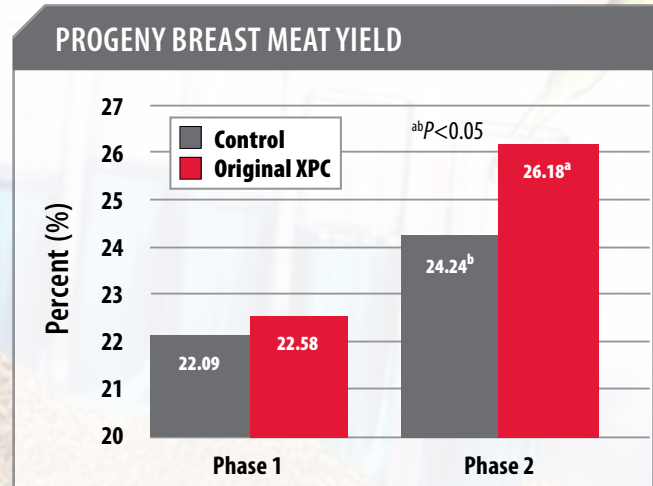
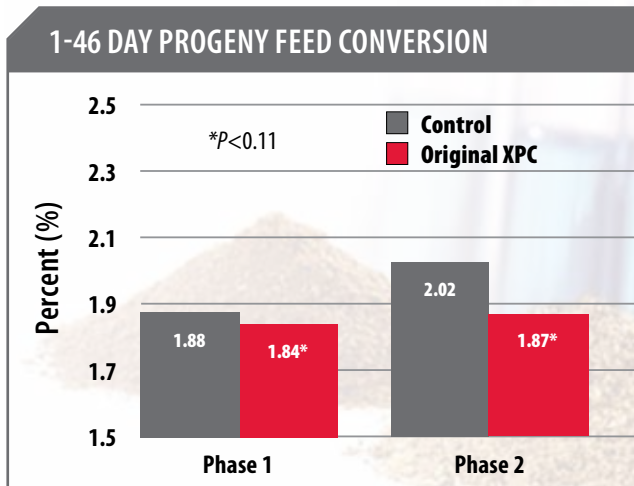


RESEARCH SUMMARY

- Percent of infertile eggs set in Phase 1 and Phase 2 were significantly ($P < 0.05$) lower from hens fed Original XPC.
- Chicks hatched from eggs set in Phase 1 and Phase 2, from Original XPC fed hens, had significantly ($P < 0.05$) lower percentage of small navels.



- No differences in progeny body weights were observed due to hen treatment. However, feed conversion was numerically improved ($P < 0.11$) in progeny from eggs set in Phase 1 and Phase 2 from hens fed Original XPC.
- Feeding Original XPC to breeder hens significantly ($P < 0.05$) increased progeny breast meat yield from eggs collected in Phase 2.



¹Araujo, L., C. Araujo, D. Moore, R. Upton, L.C.G.S. Barbosa, and M.T. Kidd. 2009. *Poult. Sci.* 88 (Suppl.1):97.

²Araujo, L., C. Araujo, D. Moore, R. Upton, C. D. McDaniel, H.M. Parker, M.T. Kidd. 2009. *Poult. Sci.* 88 (Suppl.1):40.

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

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