

Phuchong Sukphimai 2006: Effects of α -Zearalenol on Boar Reproductive Performance. Master of Science (Animal Production), Major Field: Animal Production, Department of Animal Science. Thesis Advisor: Associate Professor Srisuwan Chomchai, M.S. 75 pages.
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An experiment was performed to determine the effects of α -Zearalenol on boar reproductive performance. Twenty crossbred boars (LW x LR x D) aged 7 months were allocated randomly into 4 treatments of 0, 1, 5 and 50 ppb α -Zearalenol for 35 days. The results from this study reveal that boar treated with α -Zearalenol 0 ppb had statistically significant ($P < 0.05$) libido, testicles size in week 3rd, 4th and 5th than those that were treated with 50 ppb of α -Zearalenol. The different levels of α -Zearalenol had no significantly ($P > 0.05$) effect on copulating score (CAS). Semen quality of the boars treated with α -Zearalenol 0 ppb had statistically significant ($P < 0.05$) than the boars fed with 5 and 50 ppb of α -Zearalenol. Histology dissection testis of the boars treated with α -Zearalenol 50 ppb found that most of spermatogonia were damaged and abundant of connective tissue in seminiferous tubules. There were no significant differences ($P > 0.05$) in weight gain, daily feed intake, average daily gain and feed conversion ratio were found with increasing levels of α -Zearalenol.

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