

Surapong Tongrueng 2007: Effects of Prostaglandin  $F_{2\alpha}$  Addition to Boar Semen on Reproductive Performance in Gilts. Master of Science (Animal Production), Major Field: Animal Production, Department of Animal Science. Thesis Advisor: Associate Professor Srisuwan Chomchai, M.S. 52 pages.

An experiment was performed to determine the effect of prostaglandin  $F_{2\alpha}$  addition to boar semen on reproductive performance of the gilts. One hundred fifty hybrid gilts (Large white x Landrace) were subjected to 3 levels of  $PGF_{2\alpha}$  (0, 2.5 and 5.0 mg/80 ml. of semen dose) The results showed that treatment 3 had significantly differences ( $P < 0.05$ ) less semen backflow during insemination than treatment 2 and 1. Increasing levels of  $PGF_{2\alpha}$  5.0 mg/ 80 ml. in to semen dose had significantly differences ( $P < 0.05$ ). higher conception rate farrowing rate total piglets born per litter and piglets born alive per litter than treatment 2 and 1 respectively.

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Student's signature

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Thesis Advisor's signature

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