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.

Surapong Tongrueng — Student's signature

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