

**Research Title:** Influence of Chicken Manure and Pig Manure on Growth and Yield of Beijing Grass

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## ABSTRACT

The aim of this study was to investigate the effects of organic manure on growth and yield of Beijing grass. The two experiments were carried out under green house condition at Faculty of Agricultural Technology, King Mongkut' s Institute of Technology, Ladkrabang, Bangkok, during December, 2013 to December, 2014.

The first experiment was conducted with the objective to study effect of pig manure on growth and yield of Beijing grass. A randomized complete block design with four replications was arranged. The treatments were six rates of pig manure applications (0, 1, 2, 4, and 5 ton  $\text{rai}^{-1}$ ). The results disclosed that different rates of pig manure applications affected on growth and yield of Beijing grass. The growth and yield of Beijing grass with pig manure at 5 ton  $\text{rai}^{-1}$  were the highest followed by those Beijing grass applied with 4, 3, 2 and 1 ton  $\text{rai}^{-1}$  of pig manure, respectively. The growth and yield of Beijing grass with pig manure at 0 ton  $\text{rai}^{-1}$  (control) were the lowest.

The second experiment was carried out with the objective to study the effect of chicken manure on growth and yield of Beijing grass. A randomized complete block design with four replications was used. The treatments were six rates of chicken manure applications (0, 1, 2, 3, 4 and 5 ton  $\text{rai}^{-1}$ ). The results shown that different rates of chicken manure applications affected growth and yield of Beijing grass. Chicken manure resulted in an increase in growth attributed as well as dry weight yield. The growth and yield of Beijing grass with chicken manure at 5 tons  $\text{rai}^{-1}$  were the highest followed by those applied with 4, 3, 2 and 1 tons  $\text{rai}^{-1}$  of chicken manure, respectively. However, the growth and yield of Beijing grass with chicken manure at 0 ton  $\text{rai}^{-1}$  (control) were the lowest.

**Keywords :** Chicken manure, Pig manure, Yield, Beijing grass