Effect of Mixed Fertilizer on Yields of Five Forage Grasses under Burmese Ebony

(Pterocarpus macrocapus) Plantation

Wiruch Suksaran1  Tipa Punyavirocha2
Sumalee Lairungreng3  Jitrporn Tawatpan4

Abstract

This study was conducted to investigate the effect of mixed fertilizers (15-15-15) on dry matter yield of five forage grasses under (Pterocarpus macrocapus) plantation at Watsing District, Chainat Province, during April 1990 to September 1991. Design of experiment was split-plot in Randomized Complete Block using 3 rates (0, 50 and 100 kg/rai) of mixed fertilizers as main plot and 5 variety of grasses (Hamil, Guinea, Ruzi, Creeping Signal and Cori) as sub plot.

The results indicated that mixed fertilizers had no effects on survival, plant density, dry matter yield and chemical composition of five forage grasses. The maximum total dry matter yield (3 times cutting) was obtained from Hamil and Guinea grass (477 and 770 kg/rai) followed by Cori and Ruzi grass respectively and Creeping Signal grass gave minimum yield (P < 0.05). Most of chemical compositions of grass varieties were not different. Only crude protein of Hamil and Guinea grass had a tendency to be higher and percentage of ADF, NDF and Hemicellulose of Ruzi grass were lower than others.

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1 Forage Crop Research Group, Division of Animal Nutrition, Department of Livestock Development.
2 Chainat Animal Nutrition Research Center, Chainat Province.
3 Central Region Agriculture Cooperation, Chainat Province.
4 Animal Nutrition Laboratory, Division of Animal Nutrition, Department of Livestock Development.