Effect of Soil Amendments on Production of Forage Crop on the Fringe of the Bog

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Abstract

This study was conducted to determine the effect of soil amendments on production of forage crop on the fringe of the bog. At the field of farmer, Tak-Bai District, Narathiwat Province, during August 1995 to September 1996. Design of experiment was Split plot in Randomized Complete Block consisting of Forage Crop 2 varieties (Panicum repens and Brachiaria humidicola) and the treat of soil amendments 4 rates (control, limestone 1 ton/rai, rockphosphate 60 kg/rai and limestone 1 ton/rai with rockphosphate 60 kg/rai) as treatments with 3 replications.

The results indicated that the dry matter yield of Brachiaria humidicola (1,283.68 kg/rai) was higher than (P<0.05) Panicum repens (520.54 kg/rai) and the soil amendments were not different on dry matter yield of 2 forage crops.

The crude protein yield of Brachiaria humidicola (102.84 kg/rai) was higher than (P<0.05) Panicum repens (48.96 kg/rai). The treat of limestone 1 ton/rai with rockphosphate 60 kg/rai (86.37 kg/rai) was significantly different (P<0.05) from the control (62.69 kg/rai).

The chemical compositions (Crude protein, ADF, NDF, Cellulose, Hemicellulose, Lignin and P) were not different. Except Ca of Panicum repens (0.24 %) was higher than (P<0.05) Brachiaria humidicola (0.16 %). The treat of limestone 1 ton/rai only and the treat of limestone 1 ton/rai with rockphosphate 60 kg/rai were higher than (P<0.05) the control and the treat of rockphosphate 60 kg/rai only.

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