

Breeding of Napiergrass (*Pennisetum purpureum*) Taisu no.4⁽¹⁾

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Abstract

Napiergrass (*Pennisetum purpureum*) line 8810 is one of the progeny of Taisu no.2 crossed with the native purpureum napiergrass (NPM). Which was selected several after different testings i.e., regional trial, fertilizer trial, production and management trial and ensiling trial, respectively. The results showed that of the line 8810 had much higher forage yield as compared to NPcv.TS2. Results of the fertilizer trial showed that line 8810 had higher crude protein (CP) at 1,000 kg/ha nitrogenous level than that of the 600 1,000 kg/ha. However, no significant different were observed on acid detergent fiber (ADF) and neutral detergent fiber (NDF). Result of the management trial suggested that forage yield was highest at row distance of 100 cm. CP content decreased significant as the cutting period prolonged. On the contrary, content of ADF and NDF increased as the cutting period prolonged. Flieg's score of ensiled 8810 reached as 88 points results showed at ensiling trial. After evaluated entirely by the results above, line 8810 was named NPcv.TS4 on June 2010.

Key words: *Pennisetum purpureum*, NPcv.TS4, Breeding.

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