

Breeding of Napiergrass (*Pennisetum purpureum*) cv. Taishiu No.7 (NP cv.TS 7) ⁽¹⁾

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Received: Apr. 25, 2019; Accepted: Jun. 10, 2019

Abstract

Napiergrass (*Pennisetum purpureum*) line 7728 was one of the progenies from 'Mott' open-pollination population, which was a strain selected by progeny selection, then went through strain comparison and regional trials. Results showed that the agronomic traits of line 7728, toppest height of last leaf collar and plant height of leaf tip were 53.0 and 134.1cm, respectively. It was a medium stem type, with dry leaf and stem ratio 1.28, large number of tillers, and fresh forage yield was 240.9 mt/ha/year. The contents of crude protein, acid detergent fiber, and neutral detergent fiber of the forage were 10.2%, 35.9% and 66.0%, respectively. The agronomic traits and the ISSR primer analysis could distinguish line 7728 from the existing six varieties of napiergrass in Taiwan. Therefore, line 7728 was named after Napiergrass Taishiu No.7 (NP cv.TS 7) on 2016 by the Variety Nomenclature Review Committee.

Key words: Napiergrass, NP cv.TS 7, Forage.

(1) Contribution paper No. 2615 from Livestock Research Institute, Council of Agriculture, Executive Yuan.

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