

Pasture production in lowland severe saline soils
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Abstract

The demonstration trial on severely saline soil reclamation for pasture was carried out at Nong Sruang subdistrict, Kham Tale Soa district, Nakhon Ratchasima province in 2006-2007. The soil is severely saline sodic of the Kula Ronghai soil series (Ki). At 0-50 cm depth, the average E_{Ce} was 2-28.7 dS/m and pH was 9-10. Four species of salt tolerant grasses: Dwarf Napier (*Pennisetum purpureum*), Purple Guinea (*Panicum maximum*), Ruzy (*Brachiaria ruzizensis*) and Dixie (*Sporobolus virginicus kunth*) were planted in observational trial with soil management: farmer practice (chemical fertilizer 15-15-15 at the rate of 30 kg/rai), chemical fertilizer + farmyard manure, and chemical fertilizer + farmyard manure + gypsum. The results showed the impact of soil managements on chemical soil properties, survival percentage, growth and yield of grasses.

Keywords: severe saline soils, pasture