

Integrated Nutrient Management in Pongamia + Castor Agrisilvi System

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ABSTRACT

Field experiments were conducted during *kharif* 2010 and 2011 in sandy loam soils at Hyderabad to study the influence of integrated nutrient management in castor grown under Pongamia. The treatments mainly comprise of combination of organic (neem cake and farmyard manure) and inorganic(urea) nitrogenous fertilizers in different proportions applied to castor crop grown in the alleys of Pongamia (five year old).There was significant response to the INM treatments over control in all the parameters during both the years. Higher seed yield, stalk yield, nitrogen content, N, P and K uptake from the soil were reported in the treatment wherein 75 % recommended nitrogen was applied through urea and 12.5 % nitrogen through organic source neem cake and 12.5 % through farm yard manure but, similar results were observed in 100 % recommended nitrogen applied in the form of urea. The influence of INM on oil content was found non significant.

Key words : Agrisilvi system, Biofuel, Integrated nutrient management.