

Growth and Yield of Maize as Influenced by Different Weed Management Treatments

P Vinaya Lakshmi, M Martin Luther, Ch Pulla Rao and K L Narasimha Rao
Department of Agronomy, Agricultural College, Bapatla 522 101, Andhra Pradesh

ABSTRACT

A field experiment was conducted at Agricultural College Farm, Bapatla, during *kharif*, 2015 to study the effect of pre-emergence (Atrazine @ 1.0 kg a.i. ha⁻¹ and pendimethalin @ 1.5 kg a.i. ha⁻¹) and post-emergence herbicides (halosulfuron methyl @ 90 g ha⁻¹) on growth and yield of maize. The experimental results indicated that the highest plant height (cm), drymatter production (kg ha⁻¹) and yield at harvest of maize was with weed free and it was statistically on par with hand weeding at 20 and 40 DAS. Among various herbicides tested, pre-emergence application of atrazine @ 1.0 kg a.i. ha⁻¹ + post-emergence application of halosulfuron methyl @ 90 g ha⁻¹ registered the highest plant height (cm), drymatter production (kg ha⁻¹) and yield of maize at harvest and this was on par with pre-emergence application of pendimethalin @ 1.5 kg a.i. ha⁻¹ + post-emergence application of halosulfuron methyl @ 90 g ha⁻¹ and these two were comparable with hand weeding at 20 and 40 DAS.

Key words: *Maize, Pre and post-emergence herbicides, Yield.*