

Studies on the Effect of Green Manure *in-situ* Incorporation on Growth and Yield of *kharif* Maize (*Zea mays* L.)

Ghous Ali, Ch Pulla Rao, A S Rao and Y Ashoka Rani

Department of Agronomy, Agricultural College, Bapatla 522101, Andhra Pradesh

ABSTRACT

A field experiment was conducted at the Agricultural College Farm, Bapatla to study the effect of *in-situ* incorporation of green manures on growth and yield of maize. Growth parameters like plant height and drymatter production recorded a significant difference due to *in-situ* incorporation of green manures. Age of green manure incorporation had a significant influence on grain yield of maize. Maximum grain yield (7871 kg ha⁻¹) was recorded when incorporated at 60 days which was found significantly superior to 45 and 30 days of incorporation of green manures. The interaction was not significant.

Key words : Green manure, Growth & Yield, *In-situ* incorporation, Maize.