

Studies on Yield Attributes and Yield of Summer Maize (*Zea mays* L.) as affected by *Rabi* Legumes and Nitrogen

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ABSTRACT

Field trials were conducted for two consecutive years, 2011-12 and 2012-13 to find out the nitrogen requirement of summer maize influenced by legumes during *rabi* in a legume-cereal sequence under irrigated conditions at Agricultural College Farm, Bapatla. Maize kernel yield was the highest when greengram was taken as previous crop. Application of nitrogen at 300 kg N ha⁻¹ resulted in maximum kernel yield of maize. Total system productivity in terms of maize equivalent yields (MEY) and production efficiency (kg ha⁻¹day⁻¹) in legume-maize sequence was more in greengram –maize sequence.

Key words : Maize equivalent yield, Nitrogen levels, Production efficiency, *Rabi* legumes.