

# **Productivity and Quality of Popcorn as Influenced by Planting Population, Fertility levels and Split Application of Nitrogen**

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## **ABSTRACT**

A field experiment was conducted to study the effect of plant population, fertility levels and application of nitrogen on productivity of popcorn (*zea mays* L.) at S. V. Agricultural College, Tirupati during *rabi* seasons of 2008 and 2009. The grain yield was higher (2596 Kg/ha) at 90x20 cm and increase was 25.5 and 22.7 per cent over 60x 20 cm. Cob length and girth, number of kernel rows cob<sup>-1</sup>, number of kernel cob<sup>-1</sup>, hundred grain weight, grain and stover yield, protein content, reducing sugars and total sugars increased with decrease in population and increased with increase in fertility levels upto 120-60-60 kg ha<sup>-1</sup> N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O.

**Key words :** Nitrogen, Popcorn, Population, Quality, Yield attributes, Yield.