Response of Hybrid Pigeonpea (*Cajanus Cajan* L.) to Planting Geometry and Nitrogen Levels

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ABSTRACT

A field experiment was conducted during *kharif*, 2017 at Agricultural College Farm, Bapatla to study the response of hybrid pigeonpea to planting geometry and nitrogen levels. The results revealed that the hybrid pigeonpea (ICPH-3762) recorded significantly higher seed yield (1820 kg ha⁻¹) at a plant geometry of 180 cm x 20 cm which was 13.11% higher as compared to wide plant geometry of 180 cm x 40 cm. The nitrogen level of 60 kg ha⁻¹ resulted in higher seed yield (1853 kg ha⁻¹) which was 18.10% higher to lower nitrogen level of 20 kg ha⁻¹ and was on a par with 40 kg N ha⁻¹. The maximum return per rupee investment was also obtained at a plant geometry of 180 cm x 20 cm with application of 40 kg N ha⁻¹.

Key Words: *Hybrid pigeonpea, Planting geometry, Nitrogen levels.*