

Crop Geometry and Nipping Effects on Yield Attributes and Yield of Castor

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ABSTRACT

A field experiment entitled “Crop geometry and nipping effects on castor” was carried out on a clay soil at the Agricultural College Farm, Bapatla during *khariif*, 2017-18. The experiment was laid out in a randomized block design with ten treatments and three replications. Yield attributes of castor *viz.* length of the spike (46.7 cm), number of capsules per spike (81), weight of the spike (92.6 g) and weight of the seeds per spike (75.8 g) were recorded significantly highest with a planting geometry of 60 x 30 cm with single spike and significantly the lowest length of the spike (35.4 cm), number of capsules per spike (50), weight of the spike (67.0 g) and weight of the seeds per spike (52.6 g) were registered in 30 x 30 cm plant geometry with two spikes. Castor bean yield recorded was significantly the highest (2727 kg ha⁻¹) at 60 x 30 cm plant geometry with two spikes plant⁻¹ and it was on a par with 60 x 30 cm plant geometry with single spike plant⁻¹. Significantly the lowest bean yield (2174 kg ha⁻¹) was recorded with 30 x 30 cm plant geometry with single spike plant⁻¹.

Key words: *Castor, crop geometry, nipping, yield attributes and yield.*