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RESEARCH ARTICLE :

Influence of plant density on the performance of soybean (*Glycine max* L.) genotypes

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SUMMARY : The aim of the study was to identify optimum intra row spacing for higher yields in different soybean genotypes. A field experiment was conducted during *rainy* 2013 at Regional sugarcane and rice research Station, Rudrur with eight elite soybean genotypes and three intra row spacings (5cm, 7.5 cm and 10cm). Experiment was laid out in randomized complete block design in split plot arrangement randomizing genotypes in the main plot and three intra row spacings in the sub plots with two replications. Grain yield was found to be non significant at three intra row spacings and significant among varieties, however intra row spacing of 10 cm was found to be superior, while genotype V4 (Basar) recorded highest grain yield of 33.67 Q/ha. Among the three population densities studied there is no significant difference in yield hence a spacing of 30 x 10cm can be taken up so that seed cost can be reduced. Higher yield at a spacing of 30 x 10 cm is due to significant increase in yield contributing characters i.e number of clusters/plant (23.35) and number of pods/plant (74.16) at this spacing. An intra row spacing of 30 X 10 cm with a population density of (0.30 million plants / ha) was found to be optimum for soybean production.

KEY WORDS:
Genotypes, Intra row spacing, Soybean, Grain yield

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