

## RESEARCH ARTICLE

# Evaluation of promising pre-release inter specific cotton hybrids

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### SUMMARY

Field experiment was conducted at Agricultural Research Station, Borwat Farm, Banswara during *Kharif*-2012 to find out the optimum plant geometry and fertility levels for inter specific cotton hybrids. Sowing of RAHB-189 cotton hybrid gave significantly higher seed cotton yield ( $1798 \text{ kg ha}^{-1}$ ) over DCH-32. The maximum seed cotton yield ( $1976 \text{ kg ha}^{-1}$ ) was observed under plant geometry of  $90 \times 60 \text{ cm}$  than closer plant geometry of  $90 \times 45 \text{ cm}$  and wider plant spacing  $90 \times 90 \text{ cm}$ . Though, yield attributing parameters such as bolls  $\text{plant}^{-1}$  and boll weight were statically improved in wider as compared to closer spacing it could be increase the seed cotton yield under sowing at  $90 \times 60 \text{ cm}$  plant spacing. Among fertility levels, similar seed cotton yield was recorded with the application of 100 % RDF ( $1983 \text{ kg ha}^{-1}$ ) and 125 % RDF ( $2018 \text{ kg ha}^{-1}$ ) but both were significantly better than that of 75 % RDF and plant geometry  $90 \times 60 \text{ cm}$  seemed to be ideal for inter specific hybrid cotton for realizing higher productivity under the specific agro climatic zone IV b.

**Key Words :** Inter specific cotton, Plant geometry, Seed cotton yield, Fertility levels

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