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RESEARCH ARTICLE

Performance of Bt cotton hybrids under various crop geometries and nutrient levels in Humid Southern Plain Zone of Rajasthan

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SUMMARY

A field experiment comprised of three Bt hybrids (Leo cott, Paras Brahma and Jai Bt) with two plant geometries (90 x 45 cm and 90 x 60 cm) and three levels of NPK (100% RDF,125% RDF and 150% RDF) was conducted during *Kharif* 2012 and 2013 at ARS, Banswara in Split Plot Design with four replications. The Bt hybrid of Leo cott gave higher seed cotton yield (2242 kg ha^{-1}) as compared to Jai Bt and Paras Brahma (1809 and1755 kg ha^{-1}), respectively. The closer spacing 90 x 45 cm was recorded significantly higher seed cotton yield (2240 kg ha^{-1}) over 90 x 60 cm (1752 kg ha^{-1}). Increasing levels of fertilizer from 100% RDF to150% RDF of NPK ha^{-1} significantly increase seed cotton. Application of 125 % RDF gave significantly higher seed cotton yield (2249 kg ha^{-1}) over 100% RDF (1815 kg ha^{-1}), but it was found at par with application of 150% RDF (2304 kg ha^{-1}) in the pooled analysis.

Key Words : Leo cott, Plant geometry, Seed cotton yield, NPK levels

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