Performance of Cotton Hybrids (*Gossypium hirsutum* L.) under different spacings and Nitrogen levels in Black Cotton Soils of Coastal Andhra Pradesh

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ABSTRACT

A field experiment was conducted during *kharif* 2007 to find out the optimum spacing and nitrogen levels for prereleased cotton hybrid *viz.,* INDAM 178 along with check entry NCS 145. Wider row spacing of 120 x 60 cm recorded significantly more plant height and number of bolls per plant as compared to closer spacing of 90 x 60 cm. Similarly, wider plant spacing with same row spacing of 90 x 90 cm recorded significantly higher plant height and more number of bolls plant^{-1} than that of closer plant spacing in intra row of 90 x 60 cm. Growth and yield contributing characters significantly improved on increase in nitrogen levels. Of the two hybrids tested, INDAM 178 recorded significantly higher seed cotton yield than NCS 145. Similar trend was observed in economic point of view, where INDAM 178 recorded more net returns of Rs 3,300 ha^{-1} and BCR of 2.0 as compared to NCS 145.

Key words : Cotton, Nitrogen levels,Spacing.