RESEARCH ARTICLE

IMPACT OF FOLIAR NUTRITION AND HORMONAL APPLICATION ON THE STATUS OF SOIL APPLIED NUTRIENTS IN RICE FALLOW COTTON

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Abstract: A field experiment was carried out to analyze and critically evaluate the foliar fertilization of plant growth hormones and foliar nutrients in rice fallow cotton. The field experiment was conducted in a rice fallow condition with 11 treatments which were replicated thrice in Randomized block design (RBD). The impact of foliar fertilization in cotton through NAA, Fantac plus, Mepiquat chloride and TNAU cotton plus were statistically analyzed by means of growth, yield, nutrient uptake, and availability of nutrients in soil. The treatment, foliar application of NAA @ 40 ppm at flowering and Fantac plus @ 1ml l^{-1} at boll formation stages (T_8) resulted in increased growth and yield components, as a result, they recorded maximum uptake of nutrients NPK while holding the minimum soil available NPK status.

Keywords: Rice fallow cotton, NAA, Fantac plus, Nutrition uptake, Soil

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