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RESEARCH ARTICLE :

Influence of nitrogen levels and chlormequat on nutrient status and nitrogen uptake by wheat

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SUMMARY : A field experiment was conducted during *Rabi* season of 2013-2014 at Agronomy Section Nagpur. The experiment was laid out in split plot design with three treatments of nitrogen levels under main plot *viz.*, N_1 - 100 kg N ha^{-1}, N_2 - 125 kg N ha^{-1}, N_3 - 150 kg N ha^{-1} and four chlormequat levels as sub plot treatments *viz.*, C_0 – Control *i.e.* (no inoculation, no foliar application), C_1- Seed inoculation of chlormequat @ 1000 ppm, C_2 - Foliar application of chlormequat @ 1000 ppm at maximum tillering stage and C_3 - Seed inoculation of chlormequat @ 1000 ppm + foliar application of chlormequat @1000 ppm at maximum tillering stage, forming 12 treatment combinations replicated three times. Nitrogen uptake by crop was increased significantly with increase in levels of nitrogen. Total uptake of nitrogen was significantly more with application of 150 kg N ha^{-1}. After harvest available nitrogen content in soil was maximum with application of 150 kg N ha^{-1} and Seed inoculation of chlormequat @ 1000 ppm + foliar application of chlormequat @1000 ppm at maximum tillering stage recorded significantly more uptake of nitrogen.

KEY WORDS :
Wheat, Chlormequat, Nitrogen uptake, Nutrient status

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