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RESEARCH ARTICLE :

Effect of seed inoculation of zinc and iron solubilizing micro-organisms on yield and nutrient uptake by wheat in inceptisol

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SUMMARY : A field experiment was conducted during the year 2015-16 at Post Graduate Institute Farm, Mahatma PhuleKrishiVidyapeeth, Rahuri, to study the "Effect of seed inoculation of zinc and iron solubilizing micro-organisms on yield and nutrient uptake of wheat in inceptisol. The highest wheat grain yield was significantly increased in treatment T_7 *i.e.* GRDF + 20 kg $ZnSO_4$ + 25 kg $FeSO_4$ + seed inoculation of Fe and Zn solubilizers(45.46 q ha^{-1}) which was at par with treatment T_5 (45 q ha^{-1}) and T_6 (44.46 q ha^{-1}). Total uptake of N, K, Fe, Mn, Zn and Cu significantly increased in treatment of T_7,over all the treatments, however total P uptake of was significantly increased in treatment of T_5, over other treatments except T_4 andT_6.

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KEY WORDS :
Wheat, Zinc, Iron solubilising micro-organisms, Uptake of N, P, K, Fe, Mn, Zn, Cu

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