

Research Article

Effect of integrated nutrient and micronutrients treatment on plant growth parameters in oat cultivar (*Avena sativa* L.)

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SUMMARY

The field experiment was carried out at MARS, UAS, Dharwad, during *Rabi* season of 2012 to assess the effect of organics and micronutrients on plant growth, seed yield and quality of oat (*Avena sativa* L.). The experiment consisted of 12 treatment combinations of treatments includes fertilizer: F_1 - 100:60:40 N, P_2O_5 , K_2O per ha (RDF), F_2 100:60:40 N, P_2O_5 , K_2O per ha+ FYM 10t/ha, F_3 - 100:60:40 N, P_2O_5 , K_2O per ha + vermicompost 5t/ha. Micronutrients includes M_1 - RDF+ MgSO₄ @ 5 kg/ha, M_2 - RDF + ferrous sulphate @ 5 kg/ha, M_3 - RDF + copper sulphate @ 5 kg/ha, M_4 - RDF + zinc sulphate @ 15 kg/ha. Results revealed that there was a significant difference for the application of 100:60:40 N, P_2O_5 , K_2O per ha + vermicompost 5t/ha for plant height (cm) at 45 days after sowing (DAS), tiller number 30 DAS, number of leaf at 45 DAS. RDF + zinc sulphate @ 15 kg/ha plant height (cm) at 45 days showed significant difference.

Key Words : Organics, Micronutrients, Plant growth parameters, Oats

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