



RESEARCH ARTICLE :

Studies on effect of micro nutrients application on morpho physiological traits in sweet corn

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SUMMARY : A field experiment was conducted at Wheat and Maize Research Unit, VNMKV, Parbhani during *Kharif* 2016 to study the effect of micronutrients (Mg, Zn and B) on morphological and physiological characters in sweet corn. The effect of 10 treatments viz., control (T_1), RDF (120:60:50 kg NPK ha⁻¹) (T_2), RDF + 3 Content, through soil (Mg + Zn + B) (20 kg, 20 kg, 5 kg ha), respectively (T_3), RDF + Mg (20 kg ha) soil application at the time of sowing (T_4), RDF + Zn (20 kg ha) soil application at the time of sowing (T_5), RDF + B (5 kg ha⁻¹) soil application at the time of sowing (T_6), RDF + foliar application at 30 and 45 DAS of Mg + Zn + B @ 1% (T_7), RDF + foliar application of Mg at 30 and 45 DAS @ 1% (T_8), RDF + foliar application of Zn at 35 and 45 DAS @ 1% (T_9) and RDF + foliar application of B at 30 and 45 DAS @ 1% (T_{10}) were evaluated for morpho-physiological traits. Results revealed that for chlorophyll content (SPAD) and leaf area at flowering and maturity, treatment T_7 (RDF+ Mg SO₄ + Zn SO₄ + B spraying @ 1% at 30 and 45 DAS) (64.87) found significantly superior over rest of the treatments. Further, similar treatment was also found significantly superior over rest of treatments, in respect of cob yield plot⁻¹ (41.93 kg) and cob yield ha⁻¹ (436.80 q) and at par with treatment T_8 (RDF+ Foliar application of Mg @ 1% at 30 and 45 DAS) (36.42 kg plot⁻¹ and 379.39 q ha⁻¹ cob yield) and significantly superior over rest of the treatments.

KEY WORDS :

Effect of micronutrients, Application, Morpho physiological trait, Sweet corn

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