



**RESEARCH ARTICLE :**

## Response of sweet corn to micronutrient (Mg, Zn and B) application

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**SUMMARY :** Present investigations was undertaken in sweet corn to study the effect of micronutrient on yield and yield contributing characters. The experiment was laid out in Randomized Block Design (RBD) with three replications and ten treatments viz., Control ( $T_1$ ), RDF (120:60:50 kg NPK ha<sup>-1</sup>) ( $T_2$ ), 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<sup>-1</sup>) 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 30 and 45 DAS @ 1% ( $T_9$ ) and RDF + foliar application of B at 30 and 45 DAS @ 1% ( $T_{10}$ ). Yield contributing parameter such as cob length, cob girth, cob weight with husk/ without husk, cob yield plot<sup>-1</sup> and cob yield ha<sup>-1</sup> also was recorded. Results revealed that treatment differences were found significant for all the traits except brix reading. Maximum cob yield (41.93 kg plot<sup>-1</sup>) was found in  $T_7$ . Treatment  $T_7$  (RDF+ Mg SO<sub>4</sub>+ Zn SO<sub>4</sub>+ B @ 1% spraying at 30 and 45 DAS) was found significantly superior over rest of treatments, in respect of cob yield (41.93 kg plot<sup>-1</sup>) and cob yield (436.80 q ha<sup>-1</sup>) and at par with treatment  $T_8$  (RDF+ Foliar application of Mg @ 1% at 30 and 45 DAS) (36.42 kg plot<sup>-1</sup> and 379.39 q ha<sup>-1</sup> cob yield) and significantly superior over rest of the treatments.

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