

Research Article

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Influence of different approaches and forms of fertilizer application on growth, yield and economics of hybrid maize in eastern dry zone of Karnataka

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Summary

A field experiment was conducted at Zonal Agricultural Research Station, University of Agricultural Sciences, GKVK, Bangalore to study the influence of soil and foliar application of different forms of fertilizers through different approaches on growth, yield and economics of hybrid maize in eastern dry zone of Karnataka. The experiment was laid out in RCBD with ten treatments and replicated thrice. The results revealed that soil test crop response (STCR) dose through soluble fertilizer with 3 splits and 3 sprays recorded higher growth and yield parameters like plant height (246.07 cm), number of leaves per plant (14.93), test weight (34.7 gm), cob length (19.23 cm) and yield parameters like grain yield (98.22 q ha⁻¹) and stover yield (130.96 q ha⁻¹). However, higher benefit : cost (B:C) was observed in recommended dose of fertilizer (RDF) through conventional fertilizer (4.20) followed by STCR dose through conventional fertilizers (3.62) and lower B:C recorded in treatment receiving soluble fertilizers irrespective of the forms and approaches of fertilizer application was mainly due to higher cost for soluble fertilizers compared to conventional fertilizers.

Key words : STCR, Hybrid maize, Soluble fertilizer, Conventional fertilizer, B:C

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