



RESEARCH ARTICLE :

Effect of integrated nitrogen management on growth, yield and quality of sweet corn hybrid

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SUMMARY : Field investigation was carried out during *Rabi* 2014-2015 on clay loam soil at irrigated upland farms of Eastern block, Tamil Nadu Agricultural University, Coimbatore to identify the best integrated nitrogen management practices on sweet corn hybrid (Sugar 75). The experiment was laid out in Randomized Block Design with three replication and 12 treatments. The result shows that combined application of 25 per cent N as poultry manure with 75 per cent N as inorganic fertilizer produced higher green cob yield of 23.5 t ha⁻¹ due to superior growth attributes and yield attributes. It was comparable with 25 per cent N as goat manure + 75 per cent N as inorganic fertilizer. However, quality parameters *viz.*, total sugars, starch, protein, TSS and phenols of sweet corn kernels and crude protein and crude fat content of green fodder were found higher with 25 per cent N as poultry manure with 75 per cent N as inorganic fertilizer.

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