



Response of sweet corn cultivars to plant population and fertility levels on yield, NPK uptake and quality characters

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Abstract : A field experiment was conducted during *Kharif* 2001 and 2002 to study the effect of plant population and fertility levels on yield, NPK uptake and quality parameters by sweet corn (*Zea mays* L.) cultivars. The test cultivar Mahi Kanchan significantly differed in respect of nutrient uptake and quality aspects while Madhuri recorded maximum TSS (18.59%) and moisture (42.01%). Plant population at 75 thousand plants/ha gave significantly higher green cob and green fodder yield, NPK uptake by crop and significantly maximum TSS, protein, starch and moisture content over rest of the lower plant populations. Significant increase in green cob and green fodder yield, NPK uptake by crop and quality parameters such as TSS, starch, protein and moisture content were recorded with application of fertilizer up to 90 kg N + 45 kg P₂O₅/ha.

Key Words : Sweet corn, Plant population, Fertility levels, Cultivars, Nutrient uptake, Yield

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