

EFFECT OF LEVEL AND TIME OF NITROGEN APPLICATION IN BABY CORN (ZEA MAYS L.)

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ABSTRACT

The growth parameters like plant height, dry matter yield, leaf area and leaf area index were significantly increased with increase in rates of nitrogen application up to 90 Kg N/ha. The difference between 60 kg N/ha and 40 kg N/ha were also significant. Nitrogen applied in 3 equal splits as 1/3 basal+ 1/3 knee height+ 1/3 pre tasseling Stages of baby corn resulted in significantly highest growth parameters of baby corn. The plant height is maximum at nitrogen level 90 kg/ha i.e., 63.12 cm, 72.34 cm and 167.80 cm at 30 DAS, 45 DAS and 60 DAS respectively. Regarding interaction it is maximum at S₄ (1/3 basal+ 1/3 knee height+ 1/3 pre tasseling Stages) and 90 kg N/ha i.e. 184.39 cm. Dry matter yield is maximum at S₄ and nitrogen level 90 kg/ha i.e. 6096.07 kg/ha. Leaf area is maximum at nitrogen level 90 kg/ha at 30 DAS, 45 DAS and 60 DAS i.e. 115.32 cm², 336.12 cm² and 533.18 cm² respectively. Similarly, leaf area index is maximum at nitrogen level 90 kg/ha i.e. 0.15, 0.42 and 0.67 at 30 DAS, 45 DAS and 60 DAS respectively.

KEYWORDS: Nitrogen, Tassel, Knee Height, Basal