



RESEARCH PAPER

Effect of nitrogen and sulphur nutrition on growth and yield of maize (*Zea mays* L.) genotypes under eastern plain zone of U.P.

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Abstract : A field trial was carried out at NDUAT Faizabad to find out the effect of nitrogen and sulphur nutrition on growth and yield attributing characters of maize (*Zea mays* L.) genotypes under eastern plain zone of U.P. Nitrogen plays a vital role for the activities of every living cell. Adequate supply of N is associated with dark green colour and vigorous growth. Sulphur is most limiting factor for synthesis of sulphur bearing amino acids viz., cystine, cysteine and methionine and lipids. Three nitrogen level and two genotype were kept in main plot while four sulphur levels were allocated into sub plots under Split Plot Design and replicated thrice. Highest net returns of rupees 29134, 28191 and 30420 per hectare and B: C ratio of 2.07, 2.03 and 2.14 were earned with the application of 120 kg ha⁻¹ N by Deccan- 103 genotype and nourishment of 20 kg ha⁻¹ sulphur, respectively.

Key Words : Maize, Nitrogen, Sulphur, Nutrition, Genotypes, Growth, Yield, Economics

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