

EFFECTS OF ORGANIC, INORGANIC AND BIO-FERTILIZERS ON THE GROWTH OF MAIZE UNDER SUBABUL (*LEUCAENA LEUCOCEPHALA*) BASED AGROFORESTRY SYSTEM

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Abstract: A field trial was carried out at the research farm of College of Forestry, SHUATS, Prayagraj. The experimental site situated at an altitude of 90 M above the MSL at 25° 57' N latitude and 81° 51' E longitude. The experiment comprised of nine treatments replicated thrice. The maximum germination percentage (94.27%), plant height (72.10 cm) at 30DAS, 176.37 cm at 60 DAS and 183.67 cm at 90 DAS, number of cob/plant(1.22), ear length (17.90 cm), number of rows/cob (13.78), number of grains/cob (369.33), test weight (216.93), grain yield (q/ha) (38.50), stover yield (69.29) and harvest index (35.73) were recorded in T₈ (A Chroococcum+ Phosphate Solubilizing Bacteria+Vermicompost (3t/ha) maximize the maize growth and yield under subabul trees. Therefore, it may be concluded that A Chroococcum+ Phosphate Solubilizing Bacteria+Vermicompost (3t/ha), can be recommended for growing maize under subabul based agroforestry system for obtaining better growth and yield.

Keywords: Agroforestry, Bio fertilizer, Manure, Subabul

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