

Effect of different organic and inorganic sources of nitrogen on growth and yield of Babycorn (*Zea mays* L.)

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Received May 22, 2015 and Accepted August 28, 2015

ABSTRACT : A field experiment on effect of different organic and inorganic sources of nitrogen on growth and yield of Babycorn (*Zea mays* L.) was conducted on sandy loam soil at Crop Research Farm, Department of Agronomy, Sam Higginbottom Institute of Agriculture, Technology and Sciences, Allahabad, U.P. during *kharif* season 2013 and 2014. The treatments comprising of 8 plots and variety Golden Babycorn laid out in randomized block design, replicated thrice. The result revealed that the application of nitrogen organic (vermicompost & poultry manure) and inorganic source (urea 100%, 75%, 25% RDN) expressed significant effect on growth parameters i.e. plant height, no of leaves, days to cob initiation, no. of cob, cob length, cob weight with husk, cob weight without husk, Cob yield increased significantly with application of 120 kg N/ha (100% RDN through urea) and 50% RDN urea + 50% through poultry manure.

Key Words: Babycorn, poultry manure, vermicompost and growth.