

PERFORMANCE OF LEAF CHARACTER UNDER VARIOUS SOURCES OF FERTILIZERS IN AFRICAN MARIGOLD

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ABSTRACT

The field experiment was carried out taking different sources of fertilizers comprising of organic fertilizer (vermicompost, poultry manure) and bio-fertilizer (*azospirillum*, PSB) at KVK, farm, O.U.A.T, Bhubaneswer, Odisha to identify the suitable bio-organic combination for production of African marigold cv. Sirakole for with perfect leaves number in different seasons. Application of 25% organic fertilizer (vermicompost + poultry manure) and 75% inorganic fertilizer with bio-fertilizer in Rabi season proved to be advantageous as it exhibited required number of leaves for higher yield. In kharif season maximum number of leaves appeared in 120 days in the same treatment. Minimum number of leaves observes in control plot which reflected weak growth of plants.

KEYWORDS: Organic Fertilizer, Vermicompost, Poultry Manure, Bio-Fertilizer, Leaf Number