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## Research Paper

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# Studies on the performance of intercrops on the nutrient uptake and yield attributes of mango cv. AMRAPALI

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**ABSTRACT :** Development of mango based intercropping is the need of hour to increase production along with increasing income of mango growers. Keeping the above facts in to consideration different intercrops like pineapple, turmeric and ginger were tried in mango orchard of Department of Horticulture, Government of Odisha situated at Bhubaneswar for two years (2007-08 and 2008-09) with and without application of biofertilizers to study the impact of intercrops and biofertilizer on growth and yield characteristics of mango. The experiment was carried out in Randomized Block Design with three replications and seven treatments. From the experiment it was found that intercrops had positive impact on growth and yield attributes of mango. Application of biofertilizers also showed positive result. Growing of intercrops like ginger, turmeric and pineapple with biofertilizers and inorganic fertilizers in mango orchard revealed that maximum mango yield was recorded intercropping with turmeric with application of biofertilizers (36.87 quintal per hectare) T<sub>4</sub> followed by intercropping with ginger with application of biofertilizers (34.47 quintal per hectare) T<sub>7</sub> and minimum was recorded in control (22.07 quintal per hectare) where no intercrop was grown over the two years of investigation. The percentage increase of yield over control is 40 per cent. The application of biofertilizers also increased the yield over control and inorganic fertilizers to the tune of 48 per cent and 20 per cent, respectively.

**Key Words :** Intercrop, Biofertiliser, Mango

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