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Effect of chemical fertilizer and vermicompost on biochemical parameters of banana (*Musa paradisiaca* L.) cv. GRAND NAINÉ

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ABSTRACT : The experiment was carried out at Jambuvadi farm, Department of Horticulture, Junagadh Agricultural University, Junagadh during 2008-09 and 2009-10 for studying the effect of chemical fertilizer and vermicompost on biochemical parameters of banana. The highest total soluble solids, total sugar, reducing sugar and non reducing sugar were recorded under the treatment of 300-90-200g NPK per plant (full dose of RDF) but, it was statistically at par with the application of 150-45-100g NPK per plant (half dose of RDF) during both the years as well as in pooled results. The application of vermicompost @ 8 kg/plant (V₃) recorded significantly the highest total soluble solids, total sugar, reducing sugars and non reducing sugar but it was statistically at par with treatment V₂ (6kg/plant), during both the years as well as in pooled results. Interaction between fertilizer and vermicompost was recorded non significant during both the years as well as in pooled results.

KEY WORDS : Banana, Grand Naine, Chemical fertilizer, Vermicompost, Biochemical parameters

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