



Research Paper

Article history :

Received : 17.10.2013

Revised : 05.04.2014

Accepted : 18.04.2014

Interaction effect of bio-fertilizers along with reducing level of chemical fertilizers on physico-chemical characters of sweet orange (*Citrus sinensis* Osback)

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ABSTRACT : The present experiment was conducted on six year old sweet orange cv. Nucellar trees of uniform growth at Sweet Orange Research Station, Badanapur, Dist-Jalna (M.S.) during Mrig bahar (May-June) in 2012-13. It confirmed that the alone or in combination of *Azospirillum* and PSB along with chemical fertilizers enhanced the quality and biochemical parameters of sweet oranges. Among the various twelve combinations, overall performance of treatment T₁₀ (N₁B₃) received recommended dose of chemical fertilizers (800:400:400 g NPK) along with biofertilizers (200 g *Azospirillum* +200 g PSB per tree) was superior over other all treatments. This was farther followed by treatment T₉ (75% NPK +200 g *Azospirillum* +200g PSB per tree). It was helpful to enhance the quality and physico-chemical characters of sweet orange.

KEY WORDS : Sweet orange, Bio-fertilizers, Chemical fertilizer

HOW TO CITE THIS ARTICLE : Vadak, Yogesh, Patil, M.B., Diwan, Kamlesh and Kadam, Aditya (2014). Interaction effect of bio-fertilizers along with reducing level of chemical fertilizers on physico-chemical characters of sweet orange (*Citrus sinensis* Osback). *Asian J. Hort.*, 9(1) : 64-67.