



Article history :

Received : 15.10.2015

Revised : 02.11.2015

Accepted : 16.11.2015

Effect of pre-harvest foliar spray of nutrients and plant bio-regulators on shelf-life and quality of fruit of mango cv. DASHEHARI

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ABSTRACT : The present investigation was carried out in the orchard situated in District Saharanpur (U.P.) during the years 2010 and 2011 with an aim to improve the quality and shelf life of mango. The treatments were comprised of mulching, borax @ 0.5 and 1.0 per cent, potassium sulphate @ 0.5 and 1.0 per cent, calcium chloride @ 0.5 and 1.0 per cent, calcium nitrate @ 0.5 and 1.0 per cent, GA₃ @ 25ppm and 50 ppm, NAA @ 25ppm and 50 ppm in combination with mulching and water spray without mulching as control. The spray is to be done three times at different times at different stages during the year 2010 and 2011 which is given below-Ist spray on 15th January (*i.e.* before flower bud burst), IInd spray on 15th February (*i.e.* at panicle emergence) and IIIrd spray on 15th April (*i.e.* after fruit set). It may be concluded from the present studies that the application of CaNO₃ improves flowering parameters, increases the number of fruits and fruit yield and K₂SO₄ increase the physical characters of fruit.

KEY WORDS : Pre-harvest foliar spray, Nutrients, Bio-regulators, Mango

HOW TO CITE THIS ARTICLE : Chauhan, P., Singh, J.P., Kaushik, Himanshu, Singh, R.K. and Rajbeer (2015). Effect of pre-harvest foliar spray of nutrients and plant bio-regulators on shelf-life and quality of fruit of mango cv. DASHEHARI. *Asian J. Hort.*, **10**(2) : 246-250.